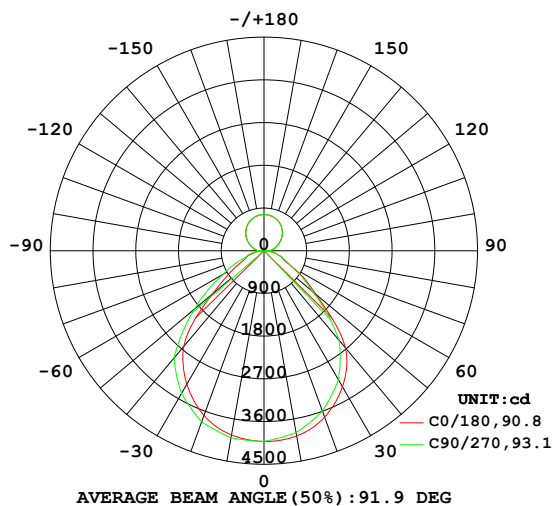


LUMINAIRE PHOTOMETRIC TEST REPORT

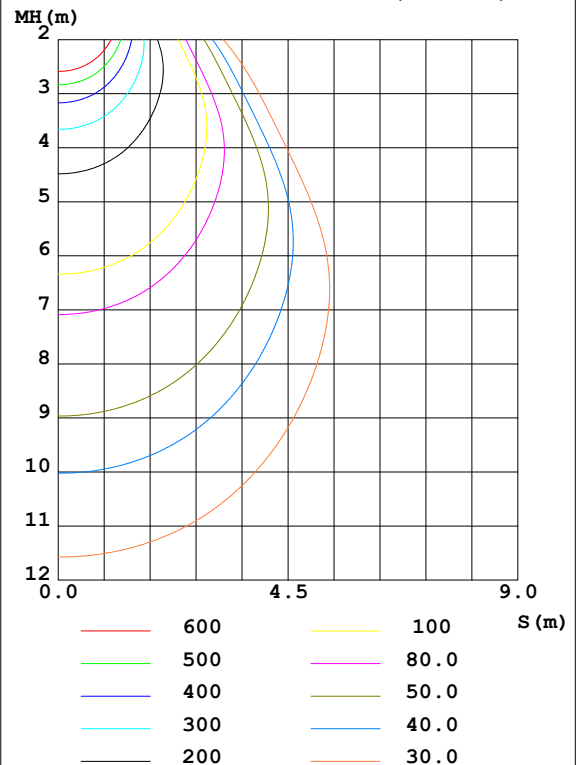
Test:U:220.4V I:0.4355A P:95.99W PF:0 Freq:0Hz Lamp Flux:11058.8x1 lm		
NAME: GAME 900-U-90W-840	TYPE:Ceiling light	WEIGHT:
SPEC.:3000K	DIM.: ϕ 900mm*H45mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: ϕ 900mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 115.21 lm/W			
MODEL	OSRAM-4000K	I _{max} (cd)	4018	S/MH (C0/180)	1.21
NOMINAL POWER (W)	96	LOR (%)	100.0	S/MH (C90/270)	1.27
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	11059	η UP, DN (C0-180)	11.8, 36.0
NOMINAL FLUX (lm)	11058.8	CIE CLASS	SEMI-D.	η UP, DN (C180-360)	11.6, 40.7
LAMPS INSIDE	1	η up (%)	23.4	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	220.0	η down (%)	76.6	CIBSE SHR MAX	1.30

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: Jason Long
Test Date: 2019-11-15

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 5.850m [K=1.7094]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

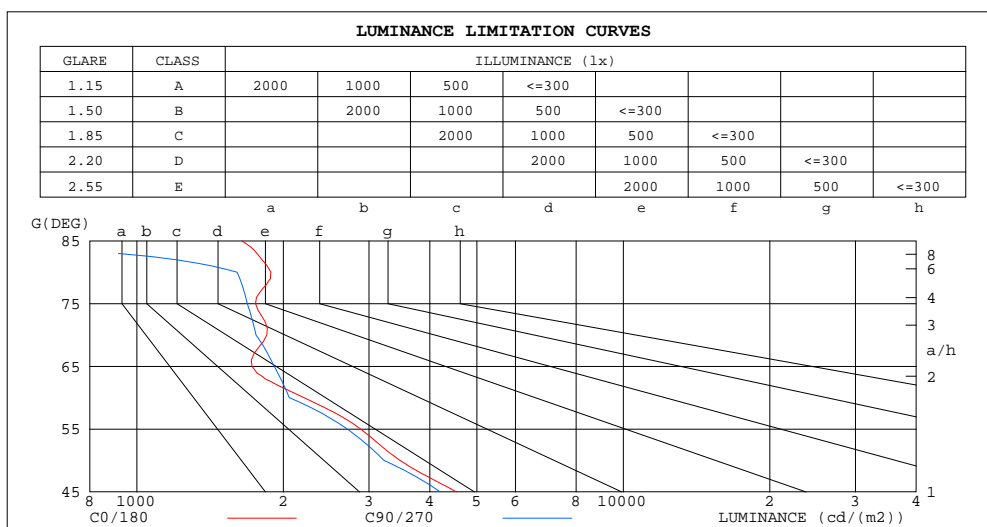
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	$\%lum, lamp$
10	3962	3908	3893	3879	3940	3959	4000	3985	0- 10	378.9	378.9	3.43,3.43
20	3731	3639	3598	3575	3693	3741	3837	3815	10- 20	1083	1462	13.2,13.2
30	3307	3169	3136	3141	3248	3354	3474	3443	20- 30	1615	3077	27.8,27.8
40	2665	2471	2460	2442	2628	2784	2950	2888	30- 40	1867	4944	44.7,44.7
50	1427	1167	1322	1257	1424	1702	1914	1667	40- 50	1606	6549	59.2,59.2
60	703.9	608.0	657.0	748.3	697.6	708.9	986.2	934.9	50- 60	971.3	7521	68,68
70	403.9	361.1	383.8	402.2	391.8	431.2	426.8	492.4	60- 70	554.8	8075	73,73
80	209.1	165.3	178.2	176.0	199.7	215.5	232.1	264.4	70- 80	316.7	8392	75.9,75.9
90	104.5	98.10	122.4	134.9	123.4	116.5	106.9	93.33	80- 90	81.57	8474	76.6,76.6
100	192.1	185.5	203.2	214.7	203.9	196.8	189.7	182.3	90-100	168.8	8642	78.1,78.1
110	286.4	277.4	296.8	310.1	293.9	289.5	284.8	277.8	100-110	255.7	8898	80.5,80.5
120	394.4	383.1	401.1	413.8	398.4	396.1	390.3	385.4	110-120	338.5	9237	83.5,83.5
130	501.9	489.8	502.0	513.7	498.9	501.3	493.9	496.3	120-130	401.9	9638	87.2,87.2
140	592.9	585.1	593.6	600.4	589.7	594.2	588.3	583.3	130-140	422.2	10061	91,91
150	669.2	662.7	668.2	672.8	664.9	669.1	665.1	661.9	140-150	395.1	10456	94.5,94.5
160	723.8	719.2	722.3	725.2	719.7	723.0	720.6	718.5	150-160	321.3	10777	97.5,97.5
170	755.8	753.5	754.9	756.1	753.5	755.3	754.2	753.1	160-170	209.2	10986	99.3,99.3
180	765.5	765.5	765.5	765.5	765.5	765.5	765.5	765.5	170-180	72.55	11059	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:Jason Long
Test Date:2019-11-15

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 γ Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.850m [K=1.7094]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:220.4V I:0.4355A P:95.99W PF:0 Freq:0Hz Lamp Flux:11058.8x1 lm		
NAME: GAME 900-U-90W-840	TYPE:Ceiling light	WEIGHT:
SPEC.:3000K	DIM.: $\phi 900\text{mm} \times \text{H}45\text{mm}$	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: $\phi 900\text{mm}$	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	1641	0
80	1886	1607
75	1754	1686
70	1850	1758
65	1725	1915
60	2205	2058
55	2885	2707
50	3477	3221
45	4539	4204

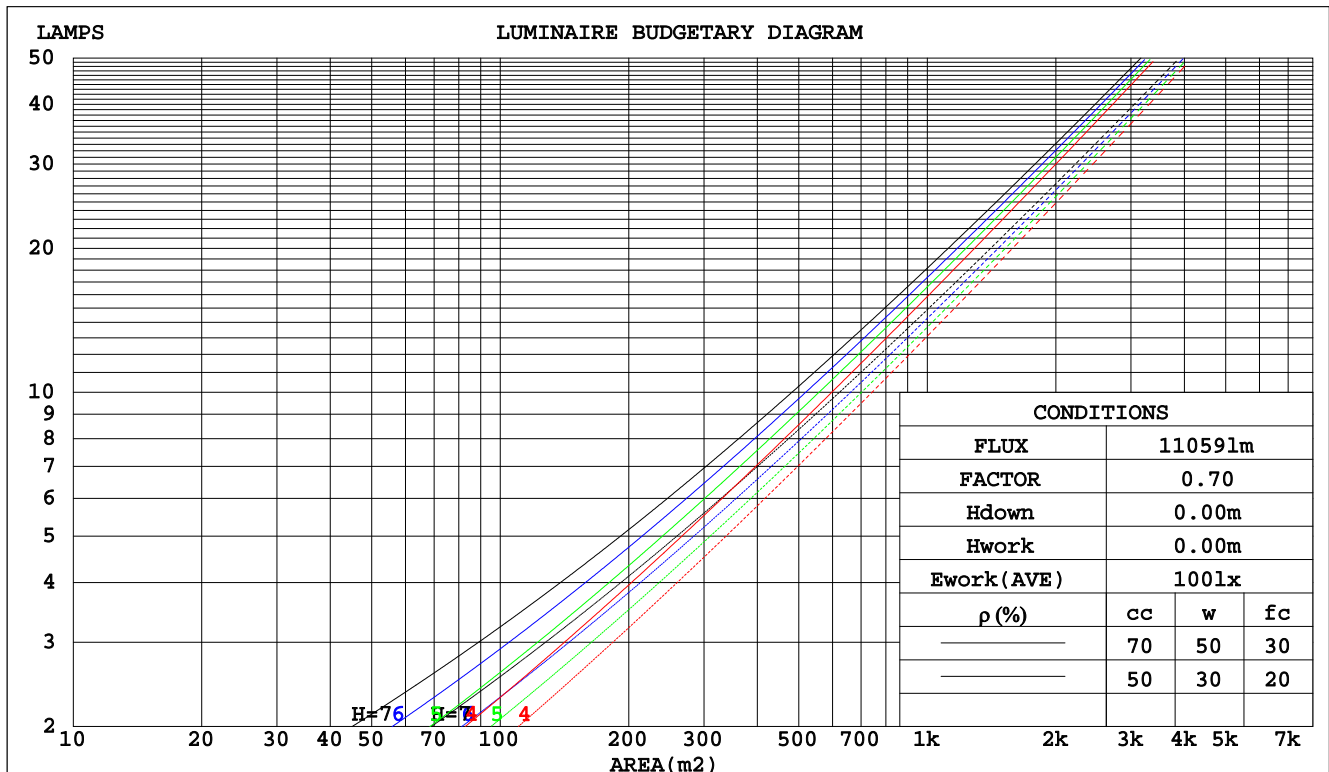
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:Jason Long
Test Date:2019-11-15

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.850m [K=1.7094]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.4V I:0.4355A P:95.99W PF:0 Freq:0Hz Lamp Flux:11058.8x1 lm		
NAME: GAME 900-U-90W-840	TYPE:Ceiling light	WEIGHT:
SPEC.:3000K	DIM.: φ900mm*H45mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.:φ900mm	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.13	1.13	1.13	1.08	1.08	1.08	.98	.98	.98	.89	.89	.89	.81	.81	.81	.77
1.0	1.01	.97	.94	.96	.93	.90	.88	.86	.83	.80	.78	.77	.73	.72	.70	.67
2.0	.90	.84	.79	.86	.81	.76	.79	.74	.71	.72	.69	.66	.66	.63	.61	.58
3.0	.80	.73	.67	.77	.70	.65	.70	.65	.61	.65	.61	.57	.59	.56	.53	.51
4.0	.72	.64	.58	.69	.62	.56	.63	.58	.53	.58	.54	.50	.54	.50	.47	.44
5.0	.65	.57	.51	.62	.55	.49	.57	.51	.47	.53	.48	.44	.49	.45	.42	.39
6.0	.58	.51	.45	.56	.49	.44	.52	.46	.42	.49	.43	.39	.45	.41	.37	.35
7.0	.53	.45	.40	.51	.44	.39	.48	.42	.37	.44	.39	.35	.41	.37	.34	.31
8.0	.49	.41	.36	.47	.40	.35	.44	.38	.33	.41	.36	.32	.38	.34	.30	.28
9.0	.45	.37	.32	.43	.36	.32	.41	.35	.30	.38	.33	.29	.35	.31	.28	.26
10.0	.41	.34	.29	.40	.33	.29	.38	.32	.28	.35	.30	.26	.33	.29	.25	.24



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:Jason Long
Test Date:2019-11-15

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.850m [K=1.7094]
Remarks:

WEC AND CCEC

Test:U:220.4V I:0.4355A P:95.99W PF:0 Freq:0Hz Lamp Flux:11058.8x1 lm		
NAME: GAME 900-U-90W-840	TYPE:Ceiling light	WEIGHT:
SPEC.:3000K	DIM.: φ900mm*H45mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.:φ900mm	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.260	.148	.047	.246	.140	.044	.219	.126	.040	.195	.113	.036	.173	.100	.032	
2.0	.246	.135	.041	.233	.129	.040	.210	.117	.036	.188	.106	.033	.168	.095	.030	
3.0	.230	.123	.037	.219	.117	.035	.198	.107	.033	.178	.098	.030	.160	.088	.027	
4.0	.215	.112	.033	.205	.107	.032	.186	.098	.029	.168	.090	.027	.151	.082	.025	
5.0	.201	.103	.030	.192	.099	.029	.174	.091	.027	.158	.083	.025	.142	.076	.023	
6.0	.189	.095	.027	.180	.091	.026	.164	.084	.024	.149	.077	.023	.135	.071	.021	
7.0	.177	.088	.025	.169	.084	.024	.154	.078	.022	.140	.072	.021	.127	.066	.019	
8.0	.167	.081	.023	.159	.079	.022	.146	.073	.021	.133	.067	.019	.121	.062	.018	
9.0	.157	.076	.021	.151	.073	.021	.138	.068	.019	.126	.063	.018	.115	.058	.017	
10.0	.149	.071	.020	.143	.069	.019	.131	.064	.018	.120	.059	.017	.109	.055	.016	

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.369	.369	.369	.315	.315	.315	.215	.215	.215	.124	.124	.124	.039	.039	.039	
1.0	.356	.336	.318	.305	.289	.274	.209	.198	.189	.120	.115	.110	.038	.037	.036	
2.0	.347	.313	.284	.297	.269	.246	.204	.186	.171	.117	.108	.100	.038	.035	.033	
3.0	.339	.296	.262	.290	.255	.227	.199	.177	.159	.115	.104	.094	.037	.034	.031	
4.0	.331	.283	.246	.284	.244	.214	.195	.170	.150	.113	.100	.089	.036	.032	.029	
5.0	.324	.273	.235	.278	.236	.204	.192	.165	.144	.111	.097	.086	.036	.032	.028	
6.0	.318	.265	.226	.273	.229	.197	.188	.160	.140	.109	.094	.083	.035	.031	.027	
7.0	.311	.258	.220	.268	.224	.192	.185	.157	.136	.108	.092	.081	.035	.030	.027	
8.0	.306	.252	.216	.263	.219	.188	.182	.154	.133	.106	.091	.079	.034	.030	.026	
9.0	.300	.248	.212	.259	.215	.185	.179	.151	.131	.104	.089	.078	.034	.029	.026	
10.0	.295	.244	.209	.255	.212	.183	.177	.149	.130	.103	.088	.077	.033	.029	.026	

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:Jason Long
Test Date:2019-11-15

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.850m [K=1.7094]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.4V I:0.4355A P:95.99W PF:0 Freq:0Hz Lamp Flux:11058.8x1 lm										
NAME: GAME 900-U-90W-840					TYPE:Ceiling light			WEIGHT:		
SPEC.:3000K					DIM.: ϕ 900mm*H45mm			SERIAL No.:		
MFR.: NEKO LIGHTING AG					SUR.: ϕ 900mm			Shielding Angle:		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	5.8	6.9	6.3	7.4	8.1	5.6	6.7	6.2	7.2	7.9
3H	6.5	7.4	7.0	8.0	8.7	6.3	7.3	6.9	7.9	8.5
4H	6.8	7.7	7.4	8.3	9.0	6.6	7.6	7.3	8.2	8.9
6H	7.1	8.0	7.7	8.6	9.3	6.9	7.8	7.6	8.4	9.1
8H	7.2	8.0	7.8	8.6	9.4	7.0	7.8	7.6	8.4	9.2
12H	7.2	8.0	7.9	8.7	9.4	6.9	7.7	7.6	8.3	9.1
4H 2H	5.8	6.8	6.5	7.4	8.1	5.7	6.6	6.3	7.2	7.9
3H	6.7	7.5	7.4	8.1	8.9	6.6	7.4	7.2	8.0	8.8
4H	7.2	7.9	7.8	8.5	9.3	7.1	7.8	7.7	8.4	9.2
6H	7.6	8.2	8.3	8.9	9.7	7.5	8.1	8.2	8.8	9.6
8H	7.8	8.3	8.5	9.0	9.9	7.6	8.1	8.3	8.9	9.7
12H	7.8	8.4	8.6	9.1	10.0	7.5	8.0	8.3	8.8	9.6
8H 4H	7.2	7.8	7.9	8.5	9.3	7.1	7.7	7.8	8.4	9.2
6H	7.8	8.3	8.6	9.0	9.9	7.7	8.1	8.4	8.9	9.8
8H	8.0	8.4	8.8	9.2	10.1	7.8	8.2	8.6	9.0	9.9
12H	8.2	8.5	9.0	9.3	10.2	7.8	8.1	8.6	8.9	9.8
12H 4H	7.2	7.7	7.9	8.4	9.3	7.1	7.6	7.8	8.3	9.2
6H	7.8	8.2	8.6	9.0	9.9	7.7	8.1	8.5	8.9	9.8
8H	8.1	8.4	8.8	9.2	10.1	7.8	8.2	8.6	9.0	9.9
Variations with the observer position at spacings:										
S = 1.0H	+ 0.6 / - 0.6					+ 0.5 / - 0.6				
1.5H	+ 0.4 / - 0.4					+ 0.4 / - 0.4				
2.0H	+ 1.4 / - 1.0					+ 1.1 / - 0.9				

CIE Pub.117, 11059 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 8.3$)

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:Jason Long
Test Date:2019-11-15

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.850m [K=1.7094]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.4V I:0.4355A P:95.99W PF:0 Freq:0Hz Lamp Flux:11058.8x1 lm		
NAME: GAME 900-U-90W-840	TYPE:Ceiling light	WEIGHT:
SPEC.:3000K	DIM.: ϕ 900mm*H45mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: ϕ 900mm	Shielding Angle:

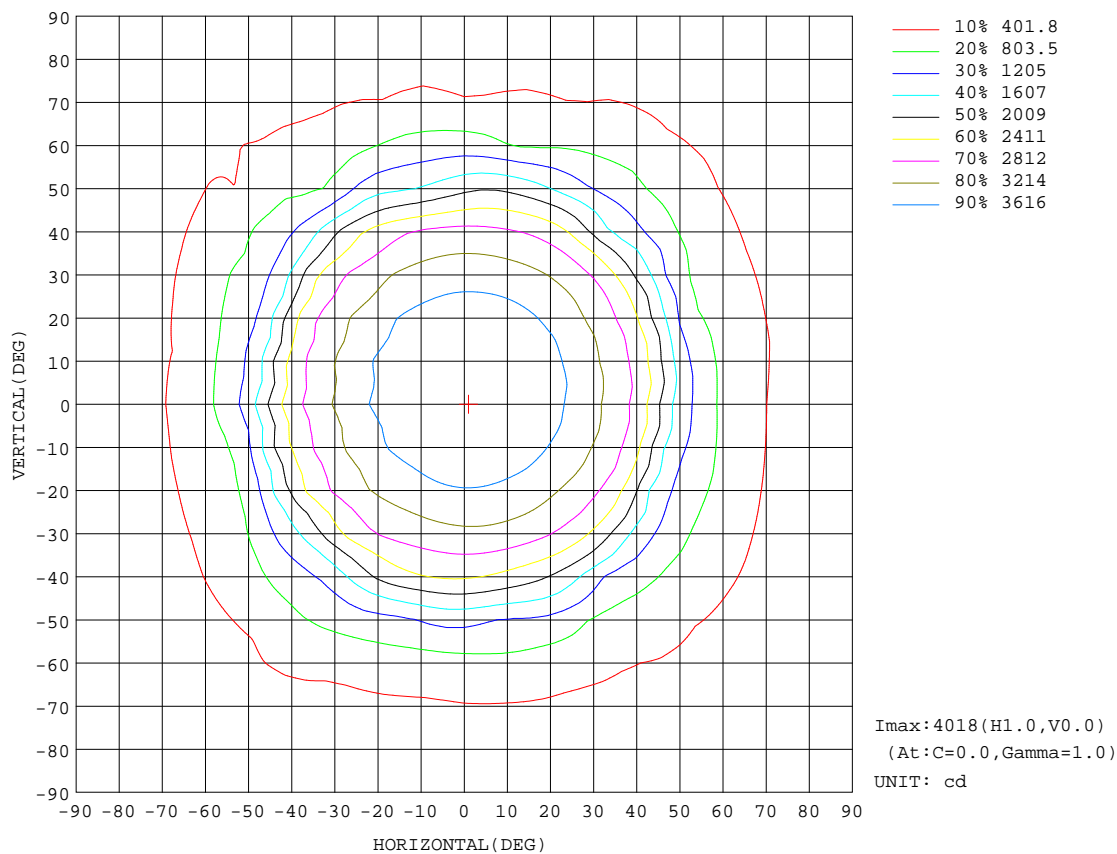
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	47	41	56	46	40	53	45	39	33
0.80	67	56	50	65	55	49	61	53	48	40
1.00	74	64	58	72	63	57	68	62	55	47
1.25	81	71	65	78	70	64	73	66	61	52
1.50	86	77	70	82	74	69	77	70	66	55
2.00	92	84	78	88	81	76	82	76	72	60
2.50	95	88	82	91	85	80	84	79	75	62
3.00	98	92	87	94	88	84	87	82	79	65
4.00	102	96	92	97	93	89	89	86	83	67
5.00	104	99	95	99	95	92	91	88	85	69
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:Jason Long
 Test Date:2019-11-15

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:5.850m [K=1.7094]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:220.4V I:0.4355A P:95.99W PF:0 Freq:0Hz Lamp Flux:11058.8x1 lm		
NAME: GAME 900-U-90W-840	TYPE:Ceiling light	WEIGHT:
SPEC.:3000K	DIM.: ϕ 900mm*H45mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: ϕ 900mm	Shielding Angle:

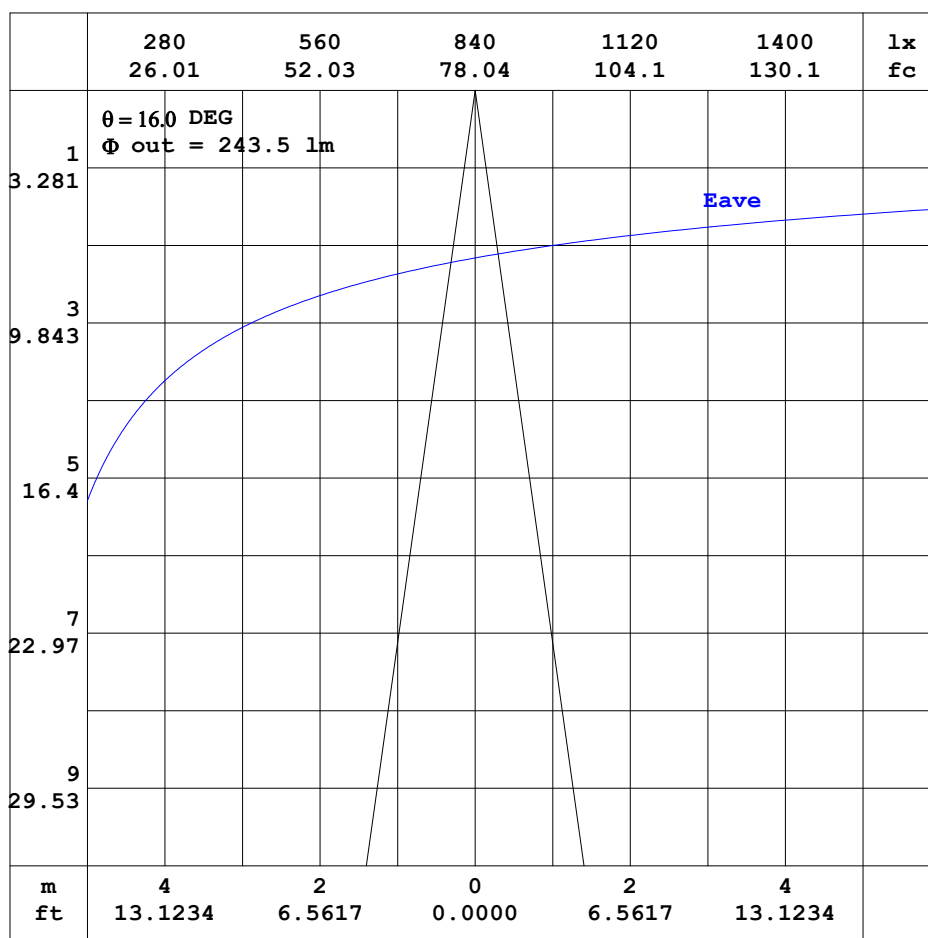


C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:Jason Long
Test Date:2019-11-15

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.850m [K=1.7094]
Remarks:

AAI CURVES

Test:U:220.4V I:0.4355A P:95.99W PF:0 Freq:0Hz Lamp Flux:11058.8x1 lm		
NAME: GAME 900-U-90W-840	TYPE:Ceiling light	WEIGHT:
SPEC.:3000K	DIM.: ϕ 900mm*H45mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: ϕ 900mm	Shielding Angle:



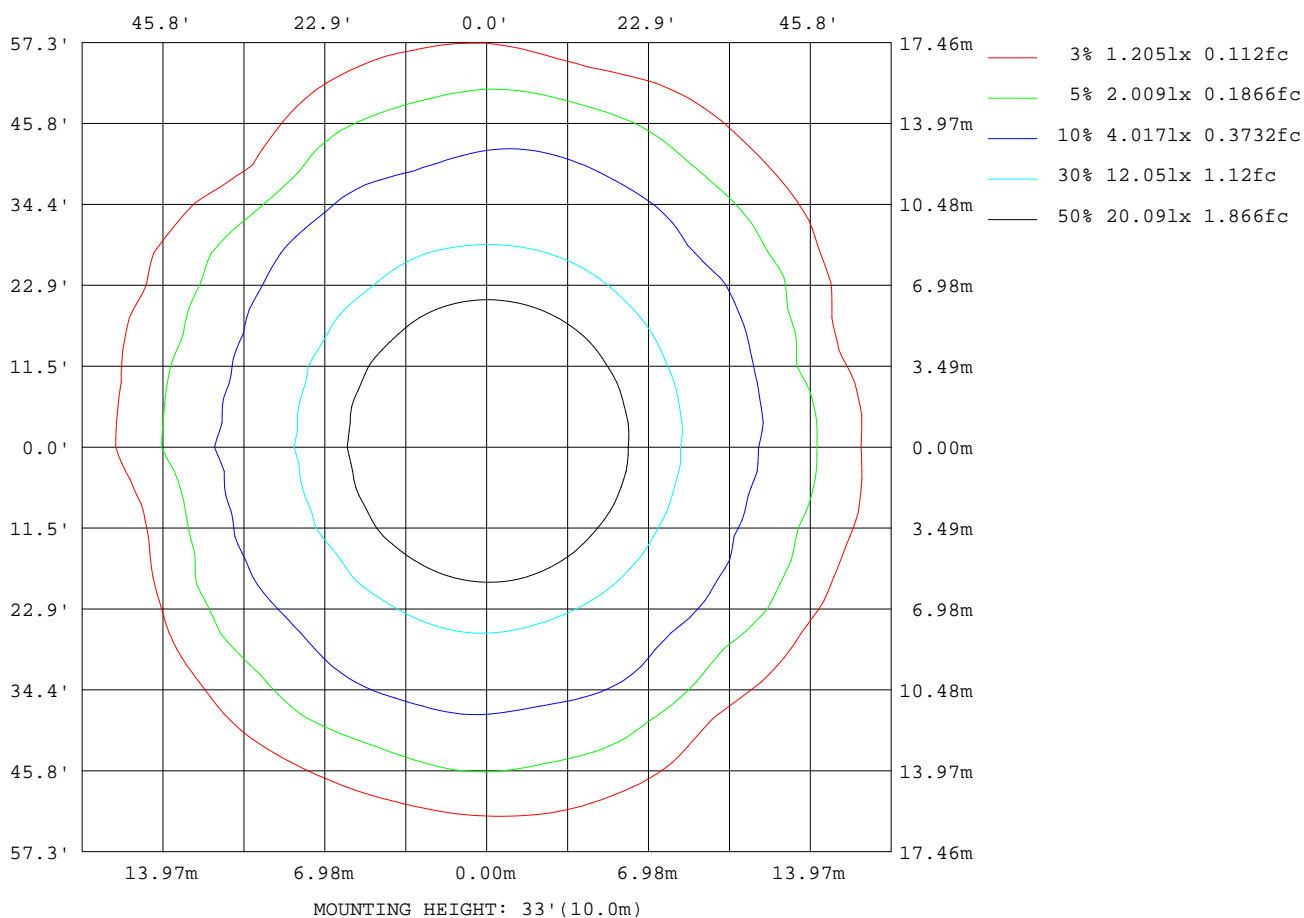
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:Jason Long
Test Date:2019-11-15

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.850m [K=1.7094]
Remarks:

ISOLUX DIAGRAM

Test:U:220.4V I:0.4355A P:95.99W PF:0 Freq:0Hz Lamp Flux:11058.8x1 lm		
NAME: GAME 900-U-90W-840	TYPE:Ceiling light	WEIGHT:
SPEC.:3000K	DIM.: ϕ 900mm*H45mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: ϕ 900mm	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:Jason Long
Test Date:2019-11-15

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.850m [K=1.7094]
Remarks:

LED Avg.L Report

Test:U:220.4V I:0.4355A P:95.99W PF:0 Freq:0Hz Lamp Flux:11058.8x1 lm		
NAME: GAME 900-U-90W-840	TYPE:Ceiling light	WEIGHT:
SPEC.:3000K	DIM.: φ900mm*H45mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.:φ900mm	Shielding Angle:

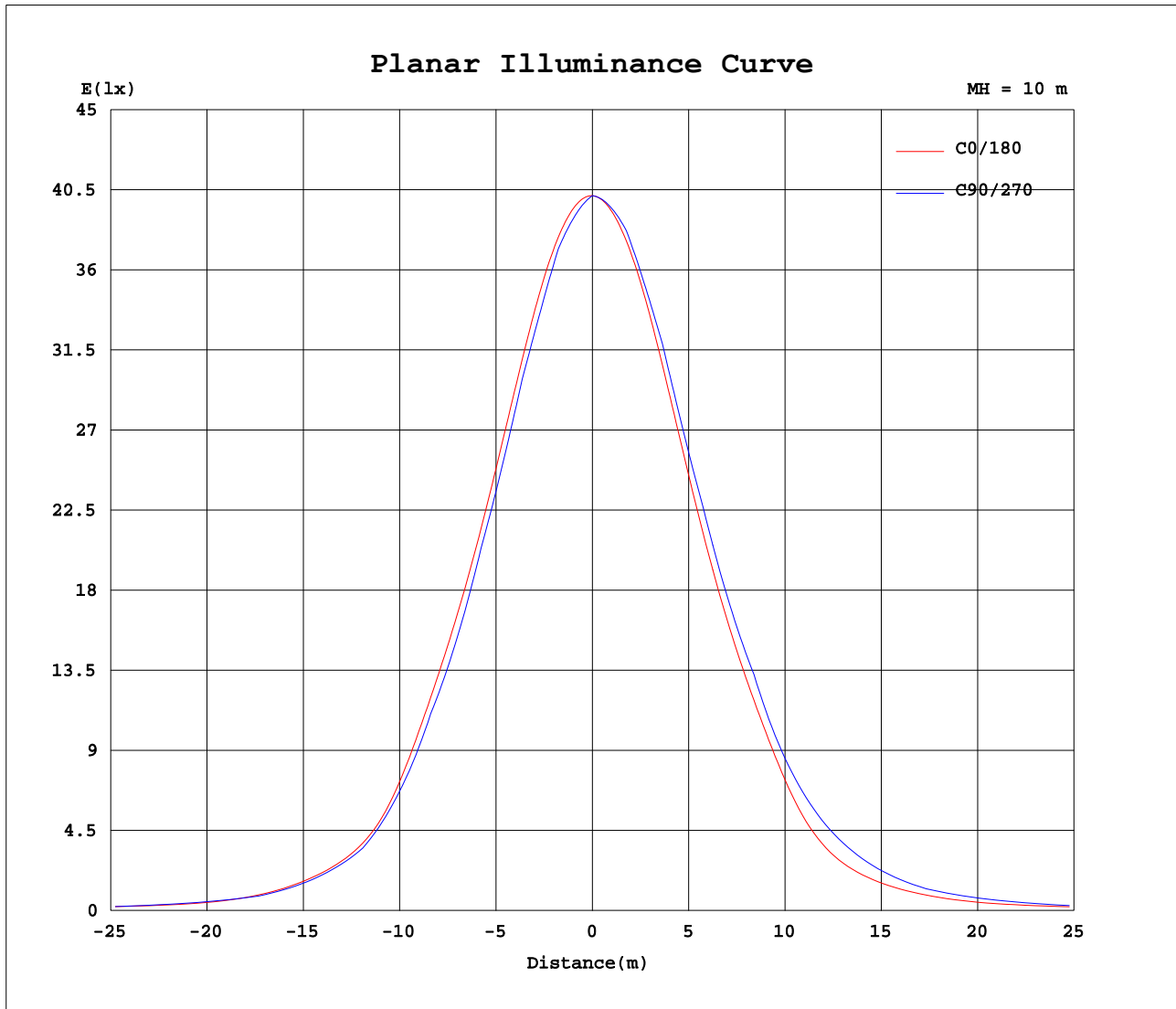
AvgL	cd/m2
L_0~180 (65) av	1742
L_0~180 (75) av	1733
L_0~180 (85) av	1670
L_90~270 (65) av	2274
L_90~270 (75) av	1843
L_90~270 (85) av	0
L_45 (65) av	2120
L_45 (75) av	1870
L_45 (85) av	1072

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:Jason Long
Test Date:2019-11-15

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.850m [K=1.7094]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: Jason Long
Test Date: 2019-11-15

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 5.850m [K=1.7094]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.4V I:0.4355A P:95.99W PF:0 Freq:0Hz Lamp Flux:11058.8x1 lm		
NAME: GAME 900-U-90W-840	TYPE:Ceiling light	WEIGHT:
SPEC.:3000K	DIM.: φ900mm*H45mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.:φ900mm	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	4017	4017	4017	4017	4017	4017	4017	4017	4017	4017	4017	4017	4017	4017	4017	4017	4017	4017	4017
5	4007	4002	3997	3993	3988	3984	3981	3977	3974	3971	3968	3966	3963	3961	3959	3957	3956	3954	3953
10	3962	3954	3946	3939	3933	3929	3924	3918	3912	3908	3905	3902	3900	3898	3897	3896	3895	3894	3893
15	3874	3863	3855	3848	3843	3831	3823	3817	3814	3804	3794	3784	3776	3769	3763	3757	3752	3747	3744
20	3731	3721	3715	3709	3691	3679	3670	3656	3646	3639	3628	3617	3609	3605	3603	3602	3601	3599	3598
25	3540	3533	3533	3511	3492	3477	3466	3459	3437	3421	3412	3406	3400	3395	3391	3386	3380	3372	3364
30	3307	3307	3305	3275	3256	3245	3224	3195	3177	3169	3166	3163	3153	3149	3147	3147	3146	3142	3136
35	3033	3043	3024	2992	2984	2958	2921	2897	2892	2877	2865	2862	2834	2813	2800	2795	2795	2798	2799
40	2665	2686	2618	2591	2577	2521	2522	2512	2481	2471	2440	2420	2394	2375	2371	2382	2405	2434	2460
45	2049	2089	1911	1962	1840	1903	1932	1888	1898	1890	1850	1851	1881	1887	1867	1848	1849	1872	1898
50	1427	1419	1318	1306	1279	1349	1321	1334	1261	1167	1272	1369	1403	1390	1341	1279	1249	1274	1322
55	1057	1058	1027	964	993	981	980	906	865	860	861	868	926	973	980	970	968	980	992
60	704	723	744	738	698	682	641	686	654	608	614	656	677	674	680	706	711	685	657
65	465	470	512	550	522	470	476	472	496	479	470	480	480	480	506	540	548	534	517
70	404	404	408	410	395	381	374	377	373	361	358	364	369	378	388	391	389	388	384
75	290	303	285	270	270	282	271	272	261	262	256	252	262	276	288	287	285	287	279
80	209	197	191	182	185	186	177	168	161	165	163	163	168	172	186	190	183	185	178
85	91.3	82.5	79.2	74.2	75.5	69.7	65.7	60.7	52.1	43.3	35.3	28.4	21.9	15.6	11.0	6.43	2.75	0.70	0.00
90	104	103	101	99.2	95.8	92.7	90.7	92.0	94.6	98.1	102	106	110	112	0.00	0.00	118	120	122
95	150	150	149	147	144	141	139	140	142	144	146	147	149	151	152	154	156	159	161
100	192	191	190	188	185	183	181	181	183	185	187	189	191	192	194	196	199	201	203
105	238	237	236	234	231	228	226	226	228	230	232	235	237	239	241	242	245	247	249
110	286	286	285	283	281	278	275	275	276	277	280	282	285	288	290	292	294	295	297
115	338	339	338	336	332	328	325	325	326	329	332	335	338	341	342	344	345	347	348
120	394	395	395	393	388	383	379	379	380	383	387	390	394	396	398	399	400	401	401
125	450	451	451	449	444	439	434	434	435	437	441	445	449	451	452	453	453	453	452
130	502	504	505	503	496	489	484	484	486	490	493	495	498	501	503	505	504	503	502
135	548	550	550	548	543	538	534	534	537	539	541	542	543	544	545	546	547	548	549
140	593	592	591	590	586	583	580	581	583	585	586	587	587	588	589	590	591	592	594
145	634	633	632	631	628	624	622	623	624	626	627	628	628	629	629	630	631	632	633
150	669	669	668	667	664	661	659	660	661	663	663	663	664	664	665	666	666	667	668
155	699	699	698	697	695	692	691	691	692	694	694	694	694	695	695	696	696	697	698
160	724	724	723	722	720	718	717	717	718	719	719	720	720	720	720	721	721	722	722
165	743	742	742	741	740	738	737	738	738	739	739	740	740	740	740	740	741	741	741
170	756	756	755	755	754	753	752	753	753	754	754	754	754	754	754	754	754	755	755
175	763	763	763	763	763	762	762	762	762	762	762	762	762	762	763	763	763	763	763
180	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:Jason Long
Test Date:2019-11-15

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.850m [K=1.7094]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.4V I:0.4355A P:95.99W PF:0 Freq:0Hz Lamp Flux:11058.8x1 lm		
NAME: GAME 900-U-90W-840	TYPE:Ceiling light	WEIGHT:
SPEC.:3000K	DIM.: φ900mm*H45mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.:φ900mm	Shielding Angle:

Table--2

UNIT: cd

C (DEG) γ (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	4017	4017	4017	4017	4017	4017	4017	4017	4017	4017	4017	4017	4017	4017	4017	4017	4017	4017	4017
5	3952	3951	3951	3951	3951	3952	3953	3954	3956	3958	3961	3964	3968	3973	3978	3983	3989	3995	3994
10	3892	3891	3889	3887	3886	3884	3882	3880	3879	3878	3878	3879	3885	3893	3902	3913	3926	3940	3936
15	3741	3738	3738	3738	3740	3745	3751	3761	3774	3784	3778	3774	3770	3769	3781	3799	3820	3844	3836
20	3596	3593	3589	3585	3581	3577	3574	3571	3575	3589	3607	3630	3625	3615	3609	3627	3657	3693	3678
25	3357	3352	3350	3351	3357	3369	3385	3399	3390	3380	3371	3390	3417	3426	3409	3404	3443	3491	3469
30	3128	3120	3113	3108	3105	3105	3106	3119	3141	3173	3161	3136	3139	3175	3177	3153	3186	3248	3219
35	2795	2789	2785	2788	2800	2825	2861	2845	2819	2806	2848	2894	2848	2846	2903	2873	2886	2968	2927
40	2473	2470	2457	2444	2428	2400	2374	2392	2442	2407	2354	2419	2528	2449	2489	2526	2499	2628	2537
45	1906	1898	1896	1916	1945	1944	1881	1807	1766	1802	1838	1828	1904	1959	1863	2000	1875	2079	1880
50	1344	1329	1306	1315	1356	1376	1355	1311	1257	1278	1312	1356	1319	1306	1226	1253	1235	1424	1310
55	986	961	940	936	950	978	1004	987	959	974	1001	941	933	825	797	777	846	993	991
60	645	644	660	679	684	691	707	739	748	719	672	681	636	648	598	617	655	698	683
65	501	491	497	501	488	470	463	517	542	505	458	462	484	472	484	498	497	475	441
70	368	356	357	363	365	367	371	390	402	396	371	352	354	325	317	341	368	392	388
75	265	255	249	252	261	272	276	275	282	280	264	250	228	218	218	228	256	283	283
80	169	161	149	150	163	173	180	180	176	174	166	161	139	129	121	115	131	200	205
85	0.64	2.42	4.98	8.78	14.9	22.6	32.5	41.6	48.7	59.4	62.2	62.4	59.2	52.6	53.7	54.5	51.3	94.5	85.1
90	124	126	0.00	0.00	131	133	134	135	135	135	134	133	132	131	129	127	125	123	123
95	162	164	165	168	170	172	173	173	173	173	173	172	171	169	167	166	164	163	162
100	205	206	208	210	212	214	214	215	215	215	215	215	213	211	208	207	205	204	203
105	250	251	252	254	257	259	260	261	261	262	262	261	258	255	251	250	249	248	247
110	298	298	299	302	305	307	309	310	310	310	309	307	304	300	297	295	294	294	294
115	348	349	350	352	355	358	359	360	360	360	359	357	354	350	347	345	345	345	345
120	401	401	401	404	407	410	412	413	414	413	412	410	407	403	399	398	398	398	399
125	452	453	454	457	460	463	464	465	465	464	462	460	457	454	452	451	451	452	454
130	502	503	505	507	510	513	514	514	514	512	511	509	506	504	502	500	499	499	500
135	550	551	552	554	556	558	558	558	557	557	557	556	554	552	549	548	546	546	546
140	594	595	596	597	599	600	601	601	600	600	600	599	597	595	593	592	590	590	590
145	634	634	635	636	638	639	639	639	639	639	638	638	636	634	633	631	630	630	630
150	669	669	670	671	672	673	673	673	673	673	672	672	671	669	668	666	665	665	665
155	698	699	699	700	701	702	702	702	702	701	701	701	699	698	697	696	695	695	695
160	723	723	723	724	725	725	725	725	725	725	725	724	723	722	721	721	720	720	720
165	742	742	742	742	743	743	743	743	743	743	743	743	742	741	740	740	739	739	739
170	755	755	755	756	756	756	756	756	756	756	756	756	755	755	754	754	754	753	754
175	763	763	763	763	763	764	764	764	764	763	763	763	763	763	763	762	762	762	762
180	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:Jason Long
Test Date:2019-11-15

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.850m [K=1.7094]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.4V I:0.4355A P:95.99W PF:0 Freq:0Hz Lamp Flux:11058.8x1 lm		
NAME: GAME 900-U-90W-840	TYPE:Ceiling light	WEIGHT:
SPEC.:3000K	DIM.: φ900mm*H45mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.:φ900mm	Shielding Angle:

Table--3

UNIT: cd

C (DEG) γ (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	4017	4017	4017	4017	4017	4017	4017	4017	4017	4017	4017	4017	4017	4017	4017	4017	4017	4017	4017
5	3993	3992	3992	3992	3992	3993	3994	3995	3996	3997	3999	4000	4002	4003	4004	4006	4007	4008	4009
10	3934	3932	3932	3934	3937	3944	3951	3959	3966	3973	3979	3985	3990	3994	3997	3999	4000	4001	4000
15	3830	3828	3831	3847	3863	3881	3898	3898	3896	3895	3897	3899	3902	3906	3910	3914	3917	3920	3922
20	3668	3671	3697	3727	3750	3742	3739	3741	3752	3769	3785	3800	3812	3822	3829	3834	3837	3838	3836
25	3456	3486	3529	3539	3528	3526	3554	3585	3616	3621	3620	3624	3630	3637	3643	3649	3654	3658	3661
30	3219	3274	3296	3278	3291	3333	3367	3354	3352	3362	3388	3412	3435	3453	3465	3472	3474	3473	3470
35	2955	3024	2992	3014	3075	3066	3049	3068	3105	3144	3148	3155	3167	3181	3195	3205	3212	3213	3212
40	2612	2613	2612	2728	2690	2698	2764	2784	2757	2767	2808	2852	2888	2916	2936	2948	2950	2941	2930
45	2032	1894	2057	2056	2093	2278	2249	2241	2320	2417	2441	2410	2369	2340	2341	2371	2419	2462	2487
50	1340	1291	1348	1363	1471	1506	1596	1702	1714	1723	1778	1792	1746	1716	1742	1816	1914	1989	2011
55	1002	1018	990	1038	1052	1129	1109	1054	1040	1081	1220	1297	1304	1310	1335	1383	1440	1472	1469
60	699	737	786	754	812	778	783	709	703	757	851	920	958	985	985	994	986	941	882
65	477	547	554	537	488	505	555	572	581	606	631	654	680	721	738	728	710	692	663
70	399	409	437	425	391	412	425	431	429	436	464	472	460	490	505	464	427	439	467
75	290	289	294	310	331	315	310	326	301	303	332	344	336	359	379	356	330	336	353
80	220	217	230	238	234	205	205	216	212	211	227	236	241	260	258	235	232	239	250
85	105	114	107	121	115	97.1	82.0	64.4	50.9	39.7	30.8	22.2	14.6	8.89	3.92	0.89	0.00	0.91	3.79
90	124	125	126	128	128	124	120	116	116	115	115	114	112	111	110	109	107	103	99.4
95	162	163	165	166	167	163	159	155	154	153	153	152	151	150	149	149	149	148	147
100	203	203	205	207	208	205	201	197	196	195	195	194	192	190	190	190	190	189	188
105	247	247	250	253	254	250	246	241	240	240	241	240	239	238	237	237	236	235	233
110	294	295	297	299	300	297	293	290	289	289	290	290	289	288	287	286	285	282	280
115	346	348	350	352	353	349	345	342	342	343	344	344	343	341	339	337	335	333	331
120	400	401	404	406	407	404	400	396	397	399	401	400	399	397	395	393	390	388	385
125	456	459	460	461	460	457	453	450	451	453	456	456	455	453	450	447	444	441	439
130	503	505	508	511	512	509	505	501	501	502	503	504	505	505	502	498	494	492	491
135	547	548	552	555	558	556	553	550	549	549	549	548	547	546	545	544	543	542	541
140	591	592	595	598	601	599	597	594	594	593	593	592	591	590	590	589	588	588	587
145	631	632	635	638	640	638	636	634	634	633	633	633	632	631	630	630	629	629	628
150	666	667	669	672	674	673	671	669	669	669	668	668	667	667	666	666	665	665	664
155	696	697	699	701	702	702	700	699	698	698	698	698	697	697	696	696	696	695	695
160	720	721	723	725	726	725	724	723	723	723	723	722	722	722	721	721	721	720	720
165	740	740	742	743	744	744	743	742	742	742	742	742	741	741	741	740	740	740	740
170	754	754	755	756	757	756	756	755	755	755	755	755	755	755	754	754	754	754	754
175	762	763	763	763	764	764	763	763	763	763	763	763	763	763	763	763	763	762	762
180	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:Jason Long
Test Date:2019-11-15

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.850m [K=1.7094]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.4V I:0.4355A P:95.99W PF:0 Freq:0Hz Lamp Flux:11058.8x1 lm																	
NAME: GAME 900-U-90W-840									TYPE:Ceiling light						WEIGHT:		
SPEC.:3000K									DIM.: φ900mm*H45mm						SERIAL No.:		
MFR.: NEKO LIGHTING AG									SUR.:φ900mm						Shielding Angle:		

Table--4

UNIT: cd

C (DEG) γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	4017	4017	4017	4017	4017	4017	4017	4017	4017	4017	4017	4017	4017	4017	4017				
5	4009	4009	4010	4010	4010	4009	4009	4009	4008	4007	4007	4007	4006	4006	4006				
10	3999	3998	3995	3993	3990	3987	3985	3982	3980	3979	3975	3971	3968	3965	3963				
15	3924	3925	3925	3925	3925	3926	3926	3926	3918	3912	3907	3904	3895	3886	3879				
20	3833	3829	3825	3821	3818	3817	3815	3808	3801	3796	3786	3778	3775	3759	3743				
25	3664	3665	3665	3664	3663	3659	3649	3645	3645	3626	3609	3596	3590	3586	3559				
30	3467	3464	3462	3462	3464	3457	3443	3427	3416	3413	3399	3372	3358	3361	3335				
35	3211	3211	3214	3217	3221	3213	3206	3193	3160	3135	3135	3119	3084	3086	3073				
40	2922	2919	2920	2920	2913	2891	2888	2876	2865	2826	2791	2802	2770	2747	2748				
45	2493	2501	2513	2515	2467	2401	2389	2383	2390	2376	2345	2285	2323	2219	2241				
50	1996	1973	1956	1947	1911	1805	1667	1722	1795	1734	1723	1609	1566	1538	1545				
55	1446	1432	1408	1351	1307	1305	1286	1241	1221	1244	1069	1034	917	1027	1065				
60	862	909	966	983	974	948	935	918	900	824	784	686	702	731	738				
65	639	645	666	672	664	681	695	656	579	589	589	568	540	536	517				
70	487	480	477	492	515	520	492	444	452	448	423	410	409	423	426				
75	368	359	344	350	377	378	365	351	345	330	312	302	309	303	296				
80	251	246	237	241	260	272	264	255	229	221	214	203	205	202	213				
85	8.54	14.8	22.2	32.6	48.0	66.9	82.3	99.8	108	116	110	107	102	104	112				
90	96.0	94.9	94.5	94.4	93.9	93.5	93.3	93.6	94.0	94.7	95.3	96.2	97.5	99.3	102				
95	146	145	144	143	143	142	142	142	142	143	144	146	148	149	150				
100	187	186	185	184	183	183	182	183	183	185	186	188	190	191	192				
105	232	231	230	230	229	228	228	229	230	231	232	233	235	236	237				
110	278	278	278	278	278	278	278	279	279	280	281	281	282	283	284				
115	329	329	329	329	330	331	331	330	330	329	330	331	332	334	336				
120	383	383	383	384	385	385	385	385	384	384	384	385	387	389	391				
125	438	438	439	440	441	442	442	441	440	439	439	440	441	444	447				
130	491	491	492	493	495	496	496	494	491	489	490	492	495	497	499				
135	541	540	539	539	540	542	543	542	540	539	540	542	544	546	547				
140	586	585	584	584	583	583	583	584	584	585	586	588	590	591	592				
145	628	627	626	625	625	625	625	625	626	626	628	630	631	632	633				
150	664	663	662	662	662	662	662	662	662	663	664	666	667	668	669				
155	695	694	693	693	693	693	693	693	693	694	695	696	698	698	699				
160	720	719	719	718	718	718	718	719	719	719	720	721	722	723	724				
165	740	739	739	738	738	738	739	739	739	739	740	741	742	742	742				
170	754	753	753	753	753	753	753	753	753	754	754	755	755	755	756				
175	762	762	762	762	762	762	762	762	762	762	763	763	763	763	763				
180	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765				

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:Jason Long
Test Date:2019-11-15

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.850m [K=1.7094]
Remarks: