

LED Ceiling Light GAME-600-46W-940



Light Output Ratio:	100.0%	
Luminaire Power:	49.1 W	
SHR Nominal:	1.25	Calculated using the TM5
SHR Maximum:	1.35	fine grid method.

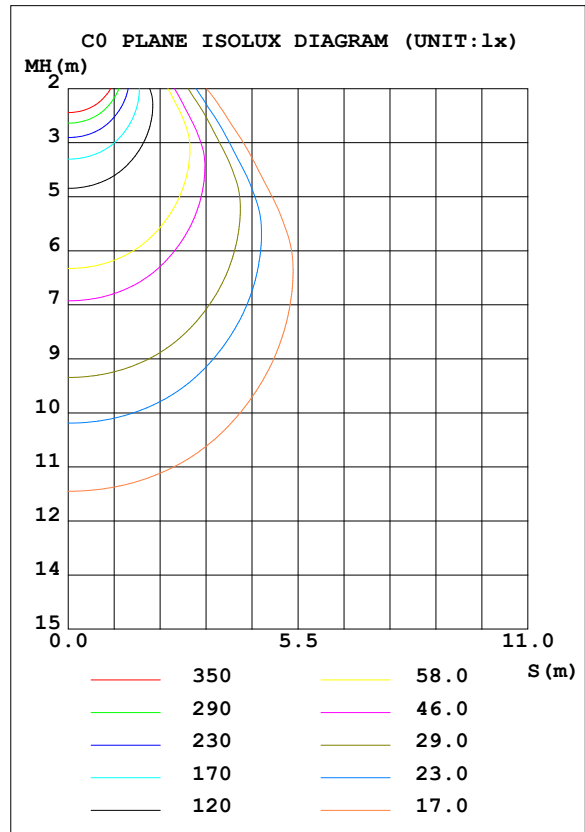
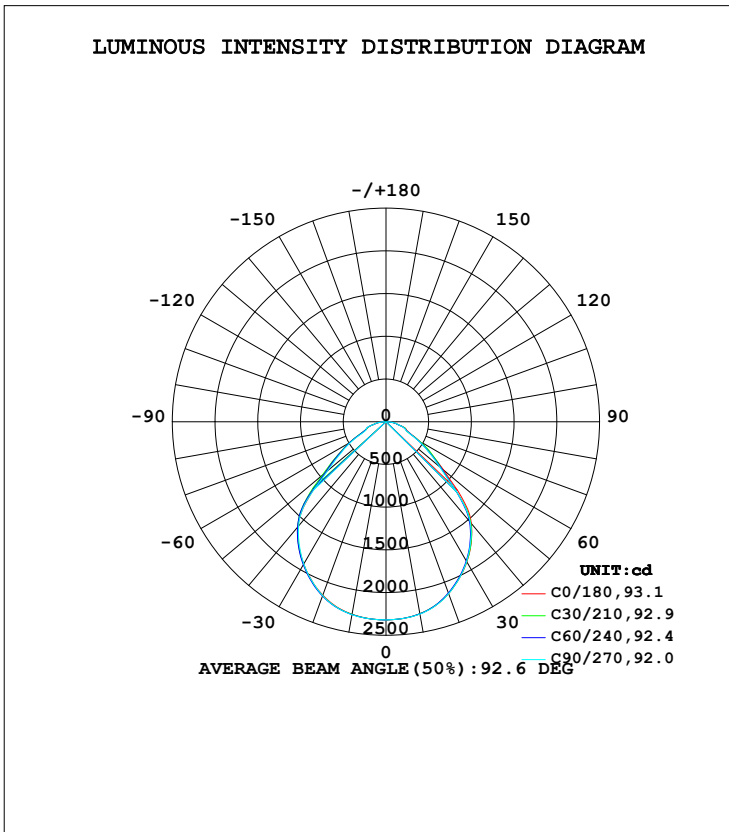
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Jason
 Test Date: 2020-06-17

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity: 58%
 Test Distance: 5.850m [K=1.0000]
 Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.7V I:0.2270A P:49.10W PF:0.9053 Freq:49.90Hz Lamp Flux:4966.85x1 lm		
NAME: GAME-600-46W-940	TYPE:Ceiling light	SERIAL No.:
SPEC.:4000K	DIM.: φ600mm*H78mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 101.16 lm/W			
MODEL	OSRAM-4000K	I _{max} (cd)	2319	S/MH (C0/180)	1.24
NOMINAL POWER (W)	40	LOR (%)	100.0	S/MH (C90/270)	1.23
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	4966.9	η UP, DN (C0-180)	0.0, 49.2
NOMINAL FLUX (lm)	4966.85	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 50.8
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	1.35



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ZONAL FLUX DIAGRAM

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γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	2283	2283	2286	2288	2289	2289	2294	2290	0- 10	219.9	219.9	4.43,4.43
20	2141	2139	2142	2150	2161	2168	2167	2154	10- 20	630.5	850.5	17.1,17.1
30	1895	1894	1888	1900	1925	1934	1923	1905	20- 30	939.4	1790	36,36
40	1554	1528	1533	1542	1600	1606	1590	1553	30- 40	1092	2882	58,58
50	880.1	770.8	822.1	831.7	925.0	855.3	891.2	867.5	40- 50	948.5	3831	77.1,77.1
60	451.1	479.3	425.5	367.8	495.5	527.0	470.3	369.8	50- 60	553.4	4384	88.3,88.3
70	249.2	264.6	236.7	226.9	241.1	277.6	247.0	227.4	60- 70	325.3	4710	94.8,94.8
80	118.6	127.0	120.1	107.4	124.0	141.6	128.2	114.3	70- 80	192.4	4902	98.7,98.7
90	0.7776	0.7803	0.7697	0.7613	2.136	5.755	3.400	0.7153	80- 90	64.90	4967	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 3409.8 lm

%lum = 68.7%
%lamp = 68.7%

Conical surface Flux(120deg): 4384.2 lm

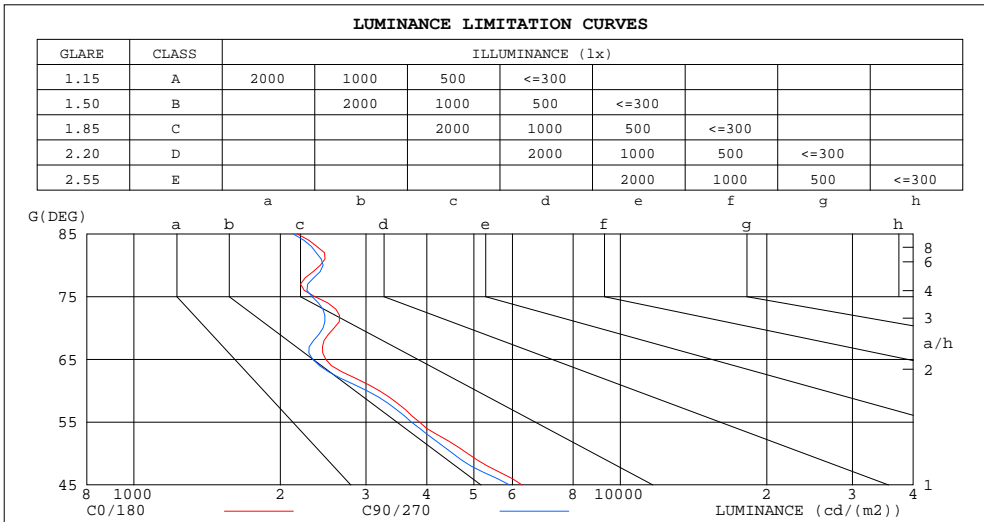
%lum = 88.3%
%lamp = 88.3%

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LUMINANCE LIMITATION CURVES

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SPEC.:4000K	DIM.: φ600mm*H78mm	
MFR.: NEKO LIGHTING AG		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	2167	2126
80	2418	2448
75	2355	2325
70	2581	2449
65	2481	2332
60	3196	3011
55	3865	3717
50	4850	4525
45	6278	5918

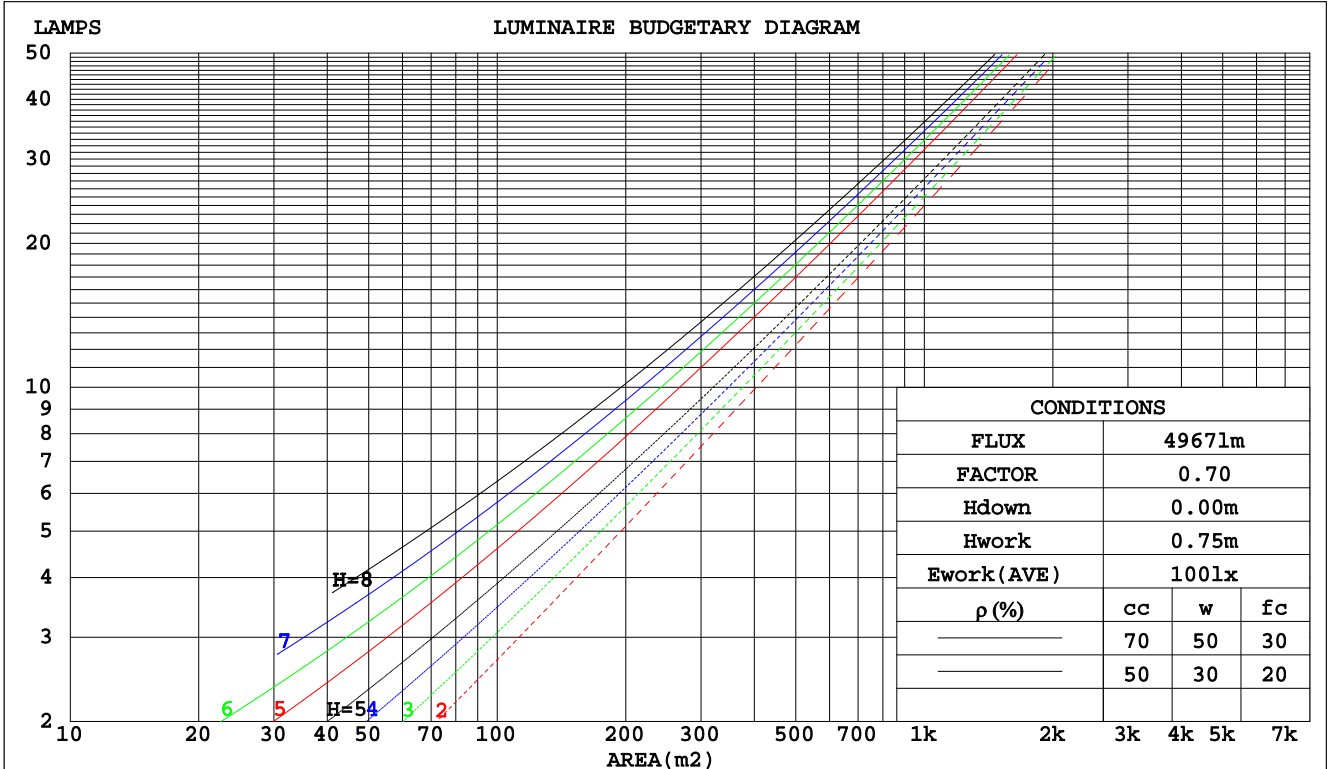
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																0
pfc																0
RCR	RCR:Room Cavity Ratio Coefficients of Utilization(CU)															
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.06	1.03	.99	1.04	1.01	.98	.90	.97	.95	.96	.94	.92	.92	.91	.89	.87
2.0	.95	.89	.84	.93	.87	.83	.89	.85	.81	.86	.82	.79	.83	.80	.77	.75
3.0	.85	.78	.72	.83	.77	.71	.80	.75	.70	.78	.73	.69	.75	.71	.68	.66
4.0	.76	.68	.62	.75	.68	.62	.73	.66	.61	.70	.65	.60	.68	.64	.60	.58
5.0	.69	.61	.55	.68	.60	.55	.66	.59	.54	.64	.58	.54	.62	.57	.53	.51
6.0	.63	.55	.49	.62	.54	.49	.60	.53	.48	.59	.52	.48	.57	.52	.47	.46
7.0	.57	.49	.44	.57	.49	.44	.55	.48	.43	.54	.48	.43	.52	.47	.43	.41
8.0	.53	.45	.39	.52	.45	.39	.51	.44	.39	.50	.43	.39	.48	.43	.39	.37
9.0	.49	.41	.36	.48	.41	.36	.47	.40	.36	.46	.40	.35	.45	.39	.35	.34
10.0	.45	.38	.33	.45	.37	.33	.44	.37	.33	.43	.37	.32	.42	.36	.32	.31



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WEC AND CCEC

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ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.264	.150	.048	.258	.147	.047	.244	.140	.045	.232	.134	.043	.221	.128	.041	
2.0	.251	.138	.042	.245	.135	.042	.234	.130	.040	.223	.125	.039	.214	.121	.038	
3.0	.236	.125	.038	.230	.123	.037	.220	.119	.036	.211	.116	.035	.203	.112	.035	
4.0	.220	.115	.034	.216	.113	.033	.207	.110	.033	.199	.107	.032	.191	.104	.032	
5.0	.206	.105	.030	.202	.104	.030	.194	.101	.030	.187	.099	.029	.180	.096	.029	
6.0	.193	.097	.028	.190	.096	.028	.183	.094	.027	.176	.092	.027	.170	.090	.027	
7.0	.182	.090	.025	.178	.089	.025	.172	.087	.025	.166	.085	.025	.161	.084	.025	
8.0	.171	.084	.024	.168	.083	.023	.163	.081	.023	.157	.080	.023	.153	.078	.023	
9.0	.162	.078	.022	.159	.077	.022	.154	.076	.022	.149	.075	.021	.145	.074	.021	
10.0	.153	.073	.020	.151	.073	.020	.146	.072	.020	.142	.070	.020	.138	.069	.020	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.177	.157	.138	.152	.134	.119	.104	.092	.082	.060	.053	.048	.019	.017	.015	
2.0	.167	.132	.103	.143	.114	.089	.098	.079	.062	.056	.046	.036	.018	.015	.012	
3.0	.158	.114	.079	.135	.098	.069	.093	.068	.048	.054	.040	.028	.017	.013	.009	
4.0	.150	.100	.063	.128	.087	.054	.088	.060	.038	.051	.035	.023	.016	.012	.007	
5.0	.142	.090	.051	.122	.078	.044	.084	.054	.031	.049	.032	.018	.016	.010	.006	
6.0	.135	.081	.042	.116	.070	.037	.080	.049	.026	.047	.029	.015	.015	.009	.005	
7.0	.129	.074	.036	.111	.064	.031	.077	.045	.022	.045	.027	.013	.014	.009	.004	
8.0	.123	.068	.031	.106	.059	.027	.073	.042	.019	.043	.024	.011	.014	.008	.004	
9.0	.117	.063	.027	.101	.055	.023	.070	.039	.017	.041	.023	.010	.013	.007	.003	
10.0	.112	.059	.024	.097	.051	.021	.067	.036	.015	.039	.021	.009	.013	.007	.003	

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 Humidity:58%
 Test Distance:5.850m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.7V I:0.2270A P:49.10W PF:0.9053 Freq:49.90Hz Lamp Flux:4966.85x1 lm		
NAME: GAME-600-46W-940	TYPE:Ceiling light	SERIAL No.:
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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	11.2	12.6	11.5	12.8	13.0	10.9	12.2	11.1	12.4	12.6
3H	11.9	13.1	12.2	13.4	13.6	11.6	12.8	11.9	13.0	13.3
4H	12.3	13.5	12.6	13.7	14.0	11.9	13.1	12.3	13.4	13.6
6H	12.6	13.7	12.9	13.9	14.2	12.3	13.4	12.6	13.7	13.9
8H	12.7	13.8	13.0	14.0	14.3	12.4	13.5	12.8	13.8	14.1
12H	12.8	13.8	13.1	14.1	14.4	12.5	13.5	12.9	13.8	14.1
4H 2H	11.5	12.6	11.8	12.9	13.1	11.2	12.4	11.5	12.6	12.9
3H	12.4	13.4	12.7	13.7	14.0	12.1	13.1	12.4	13.4	13.7
4H	12.9	13.8	13.3	14.2	14.5	12.6	13.6	13.0	13.9	14.2
6H	13.3	14.1	13.7	14.5	14.8	13.1	13.9	13.5	14.3	14.6
8H	13.5	14.3	13.9	14.6	15.0	13.3	14.1	13.7	14.4	14.8
12H	13.6	14.3	14.1	14.7	15.1	13.4	14.1	13.8	14.5	14.9
8H 4H	13.1	13.8	13.5	14.2	14.6	12.8	13.6	13.2	14.0	14.3
6H	13.7	14.3	14.1	14.7	15.1	13.5	14.1	13.9	14.5	14.9
8H	13.9	14.5	14.4	14.9	15.4	13.7	14.3	14.2	14.7	15.2
12H	14.1	14.6	14.6	15.1	15.5	13.9	14.4	14.4	14.9	15.3
12H 4H	13.1	13.8	13.5	14.2	14.6	12.8	13.5	13.3	13.9	14.3
6H	13.7	14.3	14.2	14.7	15.1	13.5	14.1	14.0	14.5	14.9
8H	14.0	14.5	14.5	14.9	15.4	13.8	14.3	14.3	14.8	15.2
Variations with the observer position at spacings:										
S = 1.0H	+ 0.6 / - 0.5					+ 0.6 / - 0.6				
1.5H	+ 0.5 / - 0.5					+ 0.4 / - 0.4				
2.0H	+ 1.4 / - 0.9					+ 1.3 / - 0.8				

CIE Pub.117, 4967 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 5.6)

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UTILIZATION FACTORS TABLE

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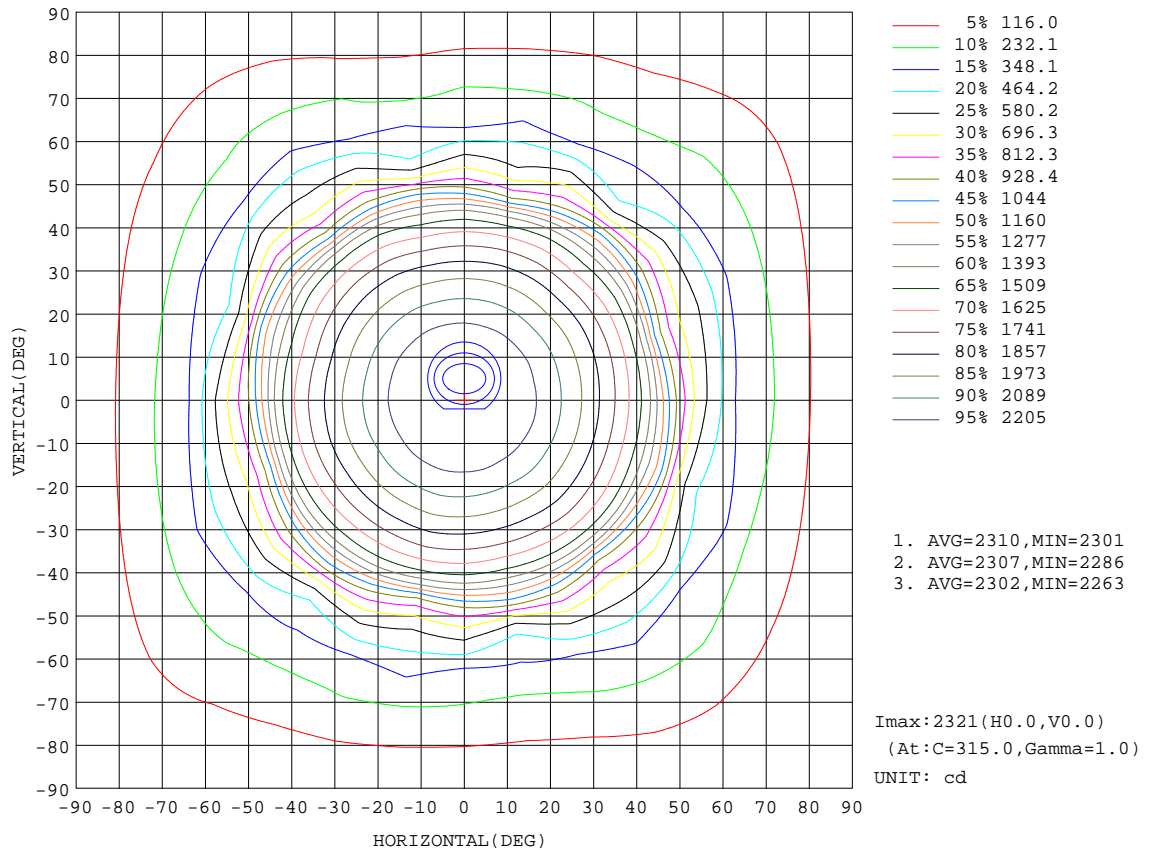
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	65	55	49	65	55	49	64	54	49	43
0.80	75	65	59	74	65	59	73	64	58	52
1.00	83	74	67	82	73	67	80	74	67	61
1.25	90	81	75	88	80	74	86	79	74	67
1.50	94	86	80	92	85	79	90	83	78	72
2.00	100	93	87	98	91	86	95	89	85	78
2.50	103	96	91	101	95	90	97	92	88	81
3.00	105	100	95	103	98	94	100	95	92	84
4.00	109	104	100	106	102	99	102	99	96	88
5.00	111	107	103	108	105	102	104	101	98	90
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

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ISOCANDELA DIAGRAM

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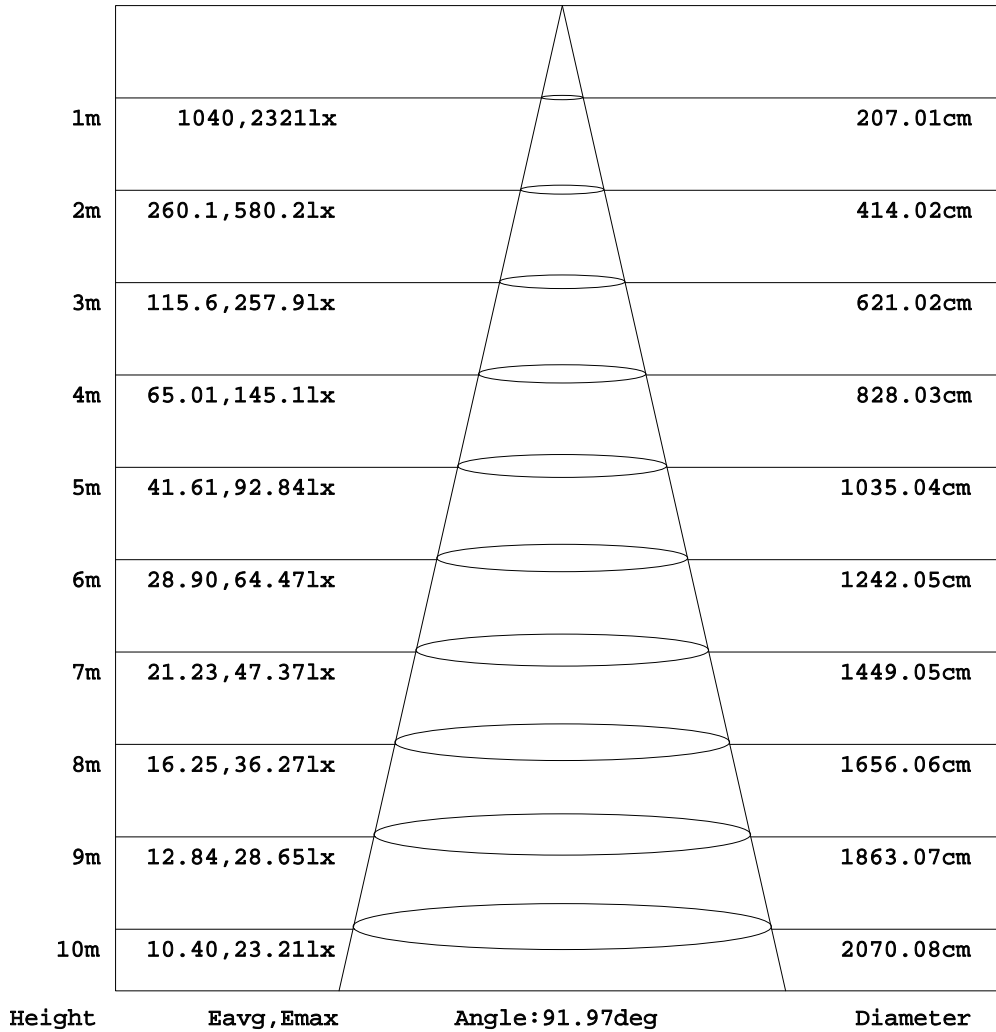
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AAI Figure

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Flux out:3504 lm



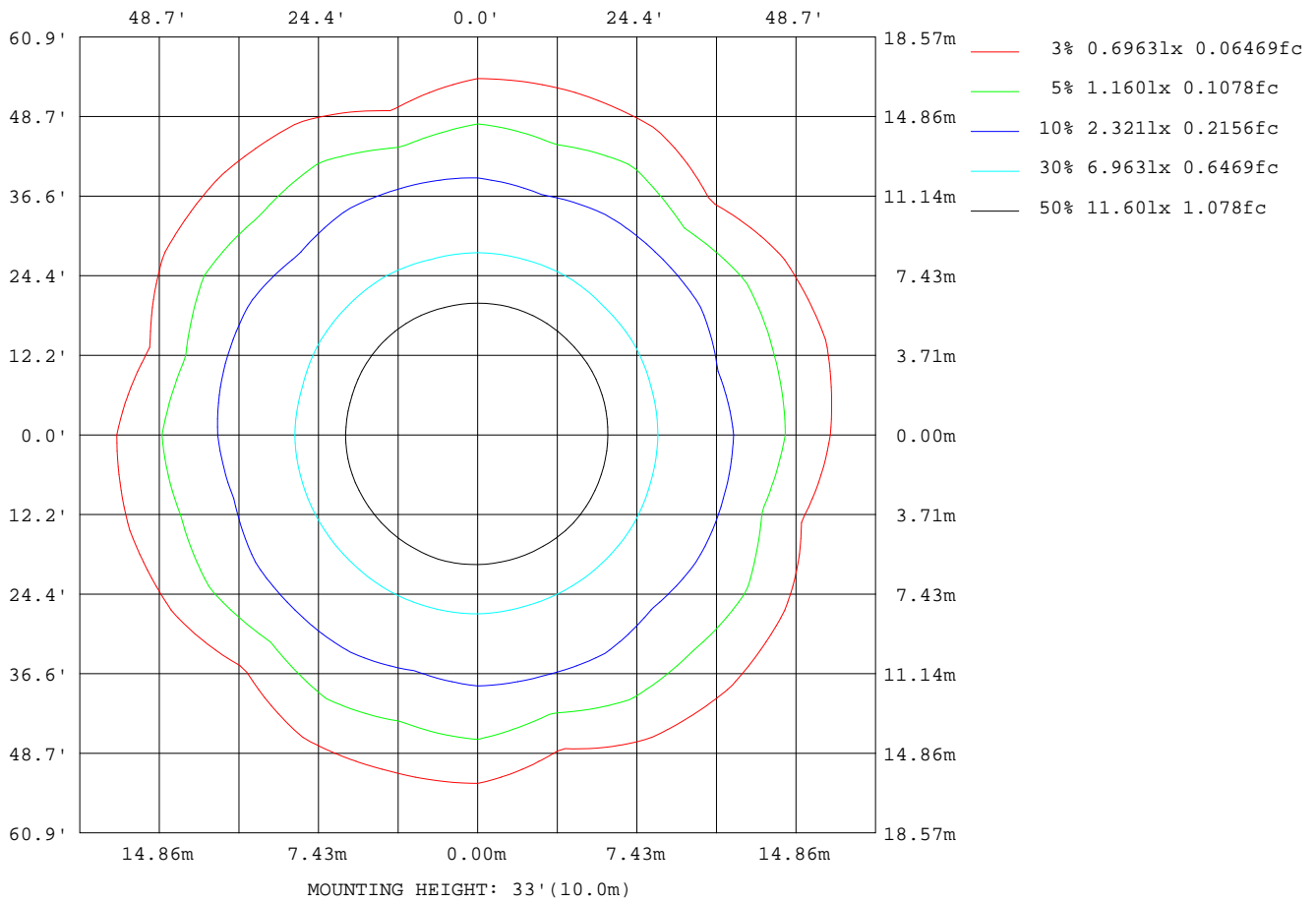
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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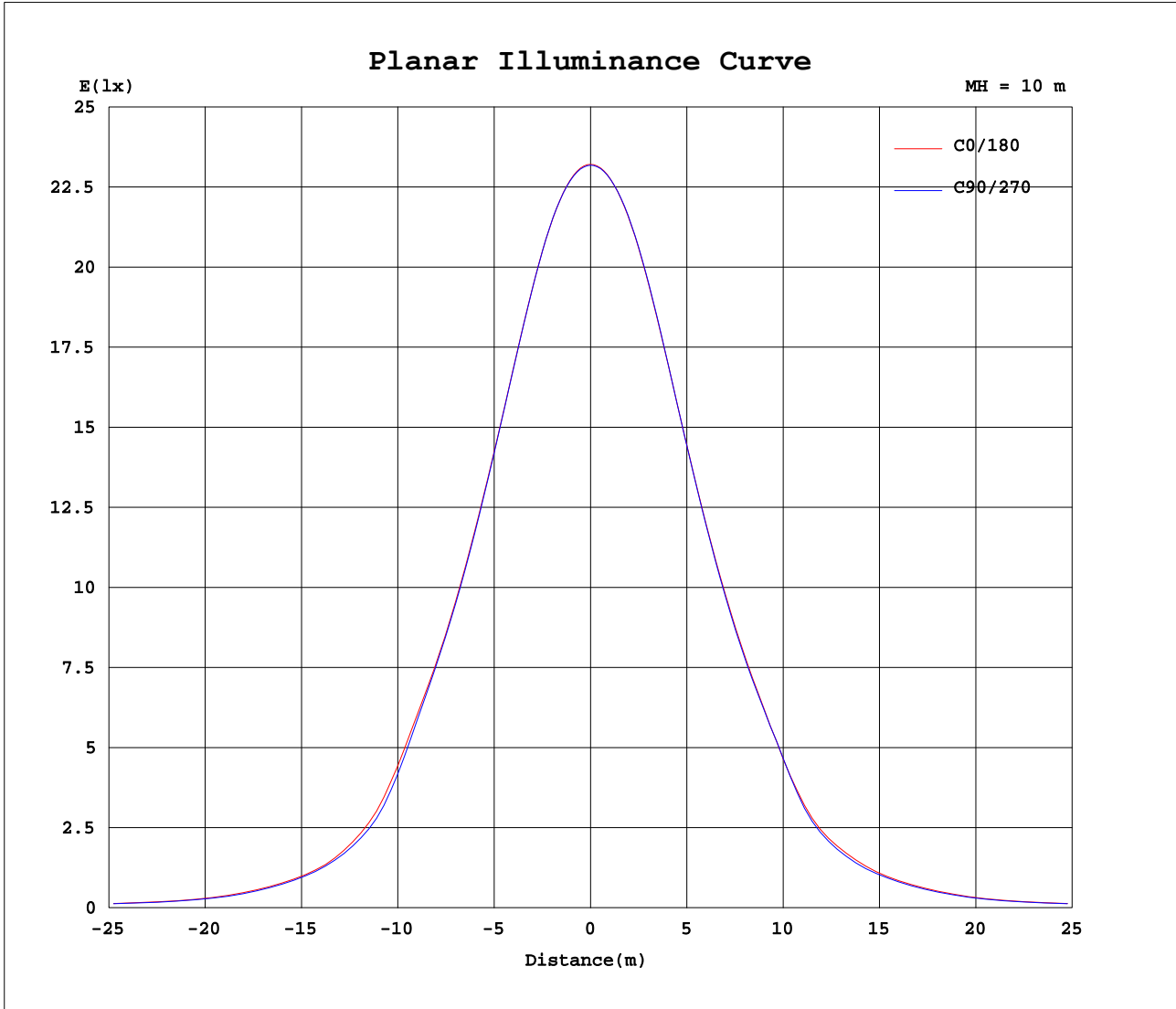
AvgL	cd/m2
L_0~180 (65) av	2536
L_0~180 (75) av	2450
L_0~180 (85) av	2377
L_90~270 (65) av	2393
L_90~270 (75) av	2487
L_90~270 (85) av	2403
L_45 (65) av	2850
L_45 (75) av	2467
L_45 (85) av	2395

Standard: GB/T 29293-2012

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Operators:Jason
Test Date:2020-06-17

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:58%
Test Distance:5.850m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Jason
 Test Date: 2020-06-17

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity: 58%
 Test Distance: 5.850m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.7V I:0.2270A P:49.10W PF:0.9053 Freq:49.90Hz Lamp Flux:4966.85x1 lm		
NAME: GAME-600-46W-940	TYPE:Ceiling light	SERIAL No.:
SPEC.:4000K	DIM.: φ600mm*H78mm	
MFR.: NEKO LIGHTING AG		

Table--1

UNIT: cd

C (DEG) \ γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	2319	2319	2319	2319	2319	2319	2319	2319	2319	2319	2319	2319	2319	2319	2319	2319	2319	2319	2319
5	2311	2311	2311	2310	2311	2311	2311	2312	2311	2312	2311	2312	2312	2312	2313	2313	2314	2314	2314
10	2283	2283	2282	2283	2283	2285	2286	2288	2287	2288	2286	2287	2289	2288	2289	2289	2292	2293	2294
15	2230	2230	2227	2227	2226	2230	2231	2235	2235	2237	2236	2240	2241	2241	2245	2245	2248	2247	2247
20	2141	2141	2139	2139	2133	2137	2142	2148	2148	2150	2151	2158	2161	2162	2168	2168	2172	2169	2167
25	2027	2024	2023	2025	2017	2018	2026	2035	2032	2036	2039	2051	2053	2050	2058	2061	2063	2055	2054
30	1895	1891	1891	1894	1880	1880	1888	1900	1895	1900	1906	1923	1925	1918	1930	1934	1935	1922	1923
35	1737	1730	1735	1736	1717	1713	1727	1740	1734	1737	1749	1772	1777	1763	1780	1786	1785	1765	1768
40	1554	1540	1544	1528	1519	1512	1533	1533	1542	1542	1561	1584	1600	1581	1606	1606	1611	1579	1590
45	1253	1266	1184	1095	1179	1196	1183	1132	1212	1238	1261	1256	1312	1335	1362	1315	1356	1330	1319
50	880	843	845	771	845	774	822	739	827	832	883	831	925	990	974	855	933	918	891
55	626	520	650	607	609	469	603	555	601	503	635	625	691	578	700	634	684	539	651
60	451	402	449	479	431	359	425	440	436	368	454	503	495	398	505	527	493	385	470
65	296	343	277	345	287	311	279	348	277	324	295	366	310	350	326	371	317	340	293
70	249	222	245	265	236	216	237	258	240	227	242	272	241	248	241	278	245	235	247
75	172	189	169	174	167	173	170	173	177	175	181	187	186	188	193	192	197	178	194
80	119	98.7	116	127	113	108	120	127	122	107	116	137	124	114	127	142	120	114	128
85	53.3	51.2	50.7	55.0	47.5	45.9	52.4	60.2	55.9	55.2	57.6	66.8	63.8	61.1	67.5	69.1	65.4	64.7	66.0
90	0.78	0.78	0.78	0.78	0.77	0.77	0.77	0.77	0.77	0.76	0.77	1.09	2.14	3.30	4.62	5.75	5.83	5.35	3.40

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2020-06-17

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:58%
Test Distance:5.850m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.7V I:0.2270A P:49.10W PF:0.9053 Freq:49.90Hz Lamp Flux:4966.85x1 lm		
NAME: GAME-600-46W-940	TYPE:Ceiling light	SERIAL No.:
SPEC.:4000K	DIM.: φ600mm*H78mm	
MFR.: NEKO LIGHTING AG		

Table--2

UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345														
0	2319	2319	2319	2319	2319														
5	2313	2314	2313	2313	2311														
10	2293	2293	2290	2290	2286														
15	2245	2244	2240	2239	2232														
20	2164	2162	2154	2153	2146														
25	2054	2049	2038	2041	2035														
30	1923	1917	1905	1910	1906														
35	1770	1763	1743	1754	1752														
40	1580	1581	1553	1569	1554														
45	1256	1286	1293	1281	1178														
50	790	863	867	895	794														
55	578	647	500	637	621														
60	483	458	370	457	499														
65	358	283	322	299	342														
70	275	237	227	244	266														
75	187	189	182	188	177														
80	145	128	114	120	135														
85	70.4	63.9	56.7	58.0	60.9														
90	2.71	1.38	0.72	0.67	0.68														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Jason
 Test Date:2020-06-17

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:58%
 Test Distance:5.850m [K=1.0000]
 Remarks: