

M3-11W-940-35



Light Output Ratio:	100.0%	
Luminaire Power:	12.92 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.60	fine grid method.

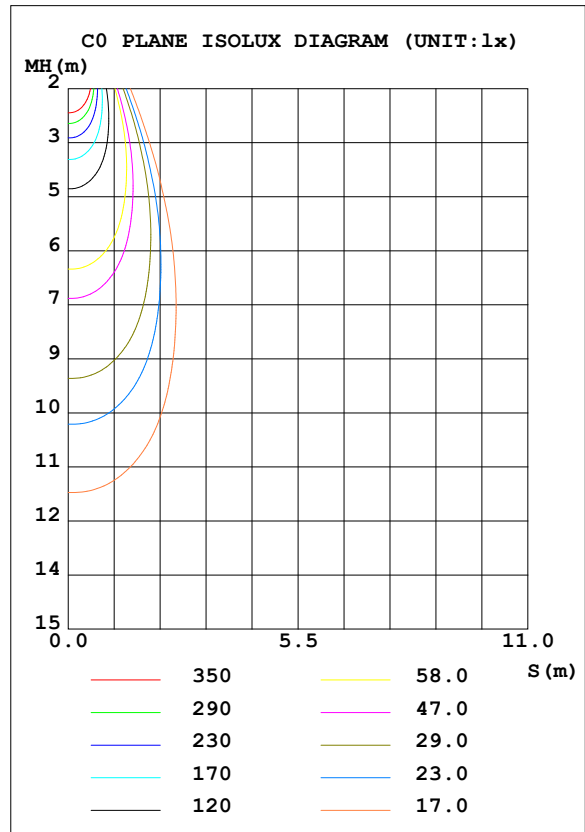
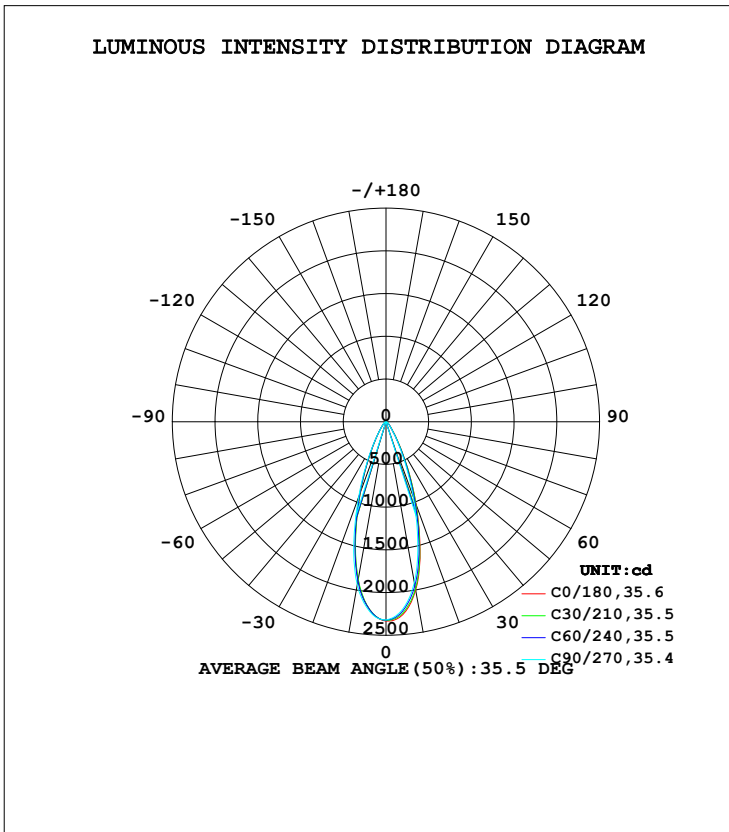
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Myles
Test Date: 2019-01-07

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 56%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.6V I:0.0654A P:12.92W PF:0.8958 Freq:49.90Hz Lamp Flux:1043.08x1 lm		
NAME: M3-11W-940-35	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: φ50mm*H40mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	CITIZEN-4000K	Imax (cd)	2333	S/MH (C0/180)	0.57
NOMINAL POWER (W)	13	LOR (%)	100.0	S/MH (C90/270)	0.58
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	1043.1	η UP, DN (C0-180)	0.0, 50.3
NOMINAL FLUX (lm)	1043.08	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 49.7
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	0.60



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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	2002	1982	1911	1886	1882	1866	1938	1973	0- 10	202.7	202.7	19.4,19.4
20	1031	1028	933.7	894.4	881.0	869.2	940.9	984.0	10- 20	394.8	597.5	57.3,57.3
30	312.0	306.8	270.2	260.2	257.0	255.7	272.3	294.0	20- 30	252.0	849.5	81.4,81.4
40	92.20	90.61	82.57	82.48	84.46	83.95	84.50	87.31	30- 40	97.40	946.9	90.8,90.8
50	42.14	41.88	39.49	39.07	40.32	40.04	40.07	40.72	40- 50	44.93	991.8	95.1,95.1
60	23.41	23.57	22.18	22.08	21.84	21.96	22.71	23.19	50- 60	27.67	1020	97.7,97.7
70	11.16	10.97	10.32	10.24	10.11	10.03	10.53	10.68	60- 70	15.77	1035	99.3,99.3
80	3.448	3.341	2.958	2.840	2.705	2.630	2.924	3.247	70- 80	6.754	1042	99.9,99.9
90	0.0634	0.0590	0.0612	0.0590	0.0415	0.0415	0.0394	0.0415	80- 90	1.044	1043	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): 972.64 lm

%lum = 93.2%
%lamp = 93.2%

Conical surface Flux(120deg): 1019.5 lm

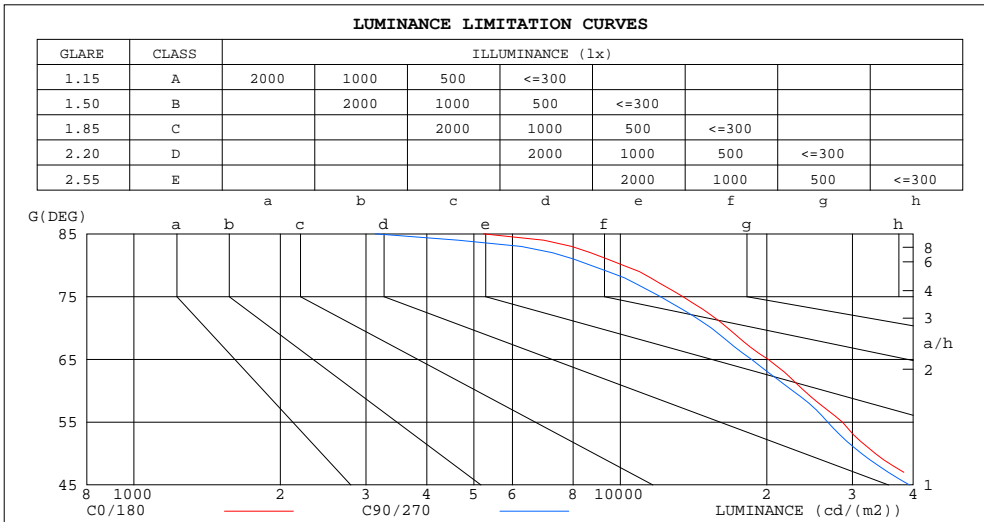
%lum = 97.7%
%lamp = 97.7%

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LUMINANCE LIMITATION CURVES

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LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	5228	3136
80	10119	8680
75	13436	12083
70	16621	15376
65	20122	18607
60	23860	22602
55	28601	26678
50	33404	31306
45	42753	39289

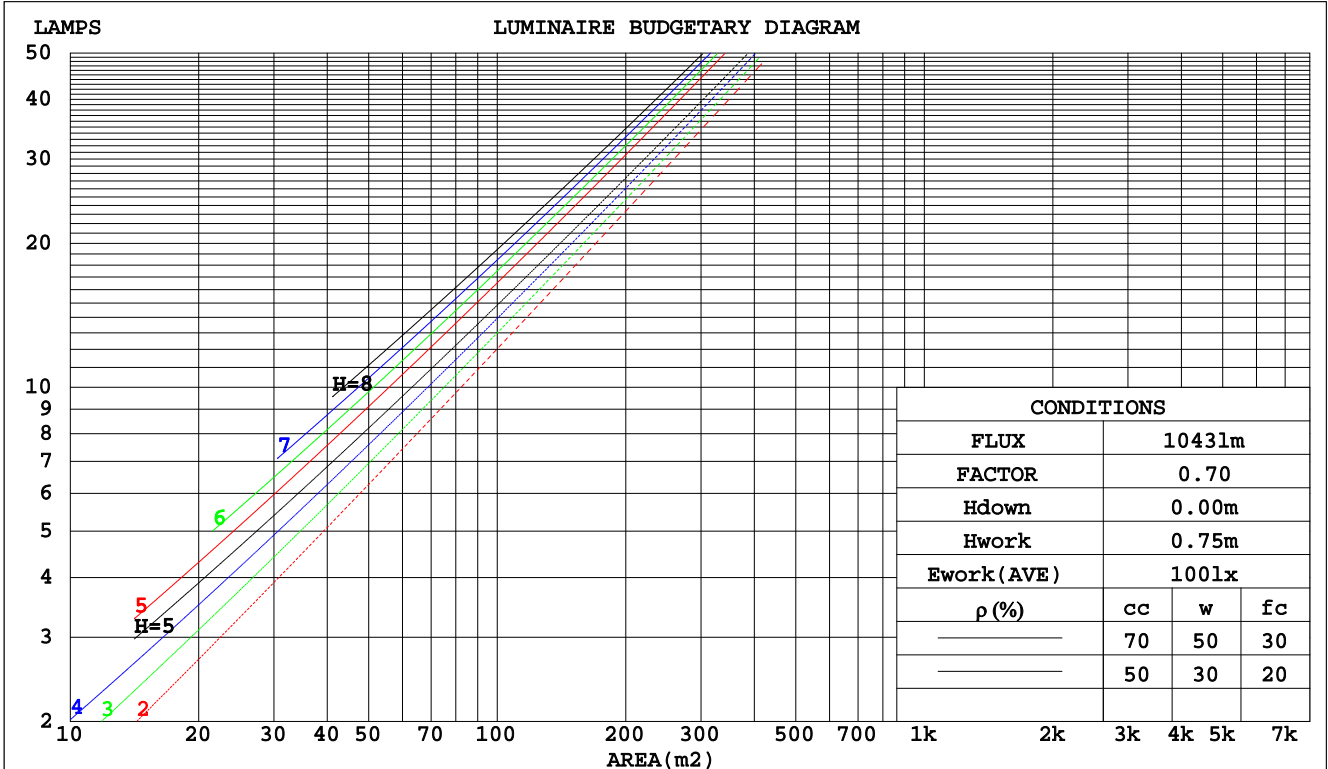
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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
ρw																0
ρfc																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	1.11	1.09	1.07	1.09	1.07	1.05	1.05	1.03	1.02	1.01	.00	.99	.98	.97	.96	.94
2.0	1.04	1.00	.97	1.02	.99	.96	.99	.96	.94	.96	.94	.92	.94	.92	.90	.88
3.0	.98	.93	.90	.97	.92	.89	.94	.90	.88	.92	.89	.86	.89	.87	.85	.83
4.0	.92	.87	.84	.91	.87	.83	.89	.85	.82	.87	.84	.81	.85	.83	.80	.79
5.0	.88	.82	.78	.87	.82	.78	.85	.81	.77	.83	.80	.77	.82	.79	.76	.75
6.0	.83	.78	.74	.82	.77	.74	.81	.77	.73	.80	.76	.73	.78	.75	.72	.71
7.0	.79	.74	.70	.79	.74	.70	.77	.73	.70	.76	.72	.69	.75	.72	.69	.68
8.0	.76	.70	.67	.75	.70	.67	.74	.70	.66	.73	.69	.66	.72	.69	.66	.65
9.0	.72	.67	.64	.72	.67	.64	.71	.67	.63	.70	.66	.63	.69	.66	.63	.62
10.0	.69	.64	.61	.69	.64	.61	.68	.64	.61	.68	.63	.61	.67	.63	.60	.59



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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	.170	.096	.031	.163	.093	.030	.150	.086	.028	.139	.080	.026	.128	.074	.024	
2.0	.160	.088	.027	.155	.085	.026	.144	.080	.025	.135	.075	.024	.126	.071	.022	
3.0	.151	.080	.024	.146	.078	.024	.137	.074	.023	.129	.071	.022	.121	.067	.021	
4.0	.142	.074	.022	.138	.072	.021	.131	.069	.021	.124	.066	.020	.117	.064	.019	
5.0	.135	.069	.020	.131	.067	.020	.124	.065	.019	.118	.062	.019	.113	.060	.018	
6.0	.128	.064	.018	.124	.063	.018	.119	.061	.018	.113	.059	.017	.108	.057	.017	
7.0	.121	.060	.017	.119	.059	.017	.113	.057	.017	.109	.056	.016	.104	.054	.016	
8.0	.115	.056	.016	.113	.056	.016	.109	.054	.015	.104	.053	.015	.100	.052	.015	
9.0	.110	.053	.015	.108	.053	.015	.104	.051	.015	.100	.050	.014	.097	.049	.014	
10.0	.105	.051	.014	.104	.050	.014	.100	.049	.014	.097	.048	.014	.093	.047	.013	

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	.171	.157	.145	.146	.135	.125	.100	.093	.087	.057	.054	.050	.018	.017	.016	
2.0	.155	.133	.114	.133	.114	.098	.091	.079	.069	.052	.046	.040	.017	.015	.013	
3.0	.142	.113	.091	.121	.098	.079	.083	.068	.055	.048	.040	.033	.015	.013	.011	
4.0	.131	.099	.074	.112	.085	.064	.077	.059	.045	.045	.035	.027	.014	.011	.009	
5.0	.121	.087	.061	.104	.075	.053	.072	.052	.038	.042	.031	.022	.013	.010	.007	
6.0	.113	.077	.052	.097	.067	.045	.067	.047	.032	.039	.028	.019	.013	.009	.006	
7.0	.106	.069	.044	.091	.060	.038	.063	.042	.027	.037	.025	.016	.012	.008	.005	
8.0	.100	.063	.038	.086	.055	.033	.060	.038	.023	.035	.023	.014	.011	.007	.005	
9.0	.095	.058	.033	.081	.050	.029	.056	.035	.020	.033	.021	.012	.011	.007	.004	
10.0	.090	.053	.029	.077	.046	.025	.054	.032	.018	.031	.019	.011	.010	.006	.004	

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 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:56%
 Test Distance:5.850m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.6V I:0.0654A P:12.92W PF:0.8958 Freq:49.90Hz Lamp Flux:1043.08x1 lm		
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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	20.0	20.8	20.2	21.0	21.1	19.4	20.3	19.7	20.5	20.6
3H	20.4	21.2	20.7	21.4	21.6	19.9	20.7	20.2	20.9	21.1
4H	20.6	21.3	20.8	21.5	21.8	20.0	20.8	20.3	21.0	21.2
6H	20.6	21.3	20.9	21.6	21.8	20.1	20.8	20.4	21.0	21.3
8H	20.6	21.3	20.9	21.6	21.8	20.1	20.8	20.4	21.0	21.3
12H	20.6	21.3	20.9	21.5	21.8	20.0	20.7	20.4	21.0	21.2
4H 2H	20.1	20.9	20.4	21.1	21.3	19.7	20.4	19.9	20.6	20.8
3H	20.7	21.3	21.0	21.6	21.9	20.2	20.9	20.6	21.2	21.4
4H	20.9	21.5	21.3	21.8	22.1	20.4	21.0	20.8	21.3	21.6
6H	21.0	21.6	21.4	21.9	22.2	20.5	21.1	20.9	21.4	21.7
8H	21.0	21.5	21.4	21.9	22.2	20.5	21.0	20.9	21.4	21.8
12H	21.0	21.5	21.4	21.8	22.2	20.5	21.0	20.9	21.3	21.7
8H 4H	20.9	21.4	21.3	21.8	22.1	20.5	21.0	20.9	21.3	21.7
6H	21.1	21.5	21.5	21.9	22.3	20.6	21.0	21.0	21.4	21.8
8H	21.1	21.5	21.6	21.9	22.3	20.6	21.0	21.1	21.4	21.9
12H	21.1	21.4	21.6	21.9	22.3	20.6	20.9	21.1	21.4	21.8
12H 4H	20.9	21.3	21.3	21.7	22.1	20.4	20.9	20.8	21.3	21.6
6H	21.1	21.4	21.5	21.8	22.3	20.6	21.0	21.0	21.4	21.8
8H	21.1	21.4	21.6	21.9	22.3	20.6	20.9	21.1	21.4	21.8
Variations with the observer position at spacings:										
S = 1.0H	+ 0.9 / - 1.2					+ 0.8 / - 1.1				
1.5H	+ 1.6 / - 0.8					+ 1.3 / - 0.8				
2.0H	+ 1.3 / - 0.9					+ 1.2 / - 1.0				

CIE Pub.117, 1043 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.1)

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UTILIZATION FACTORS TABLE

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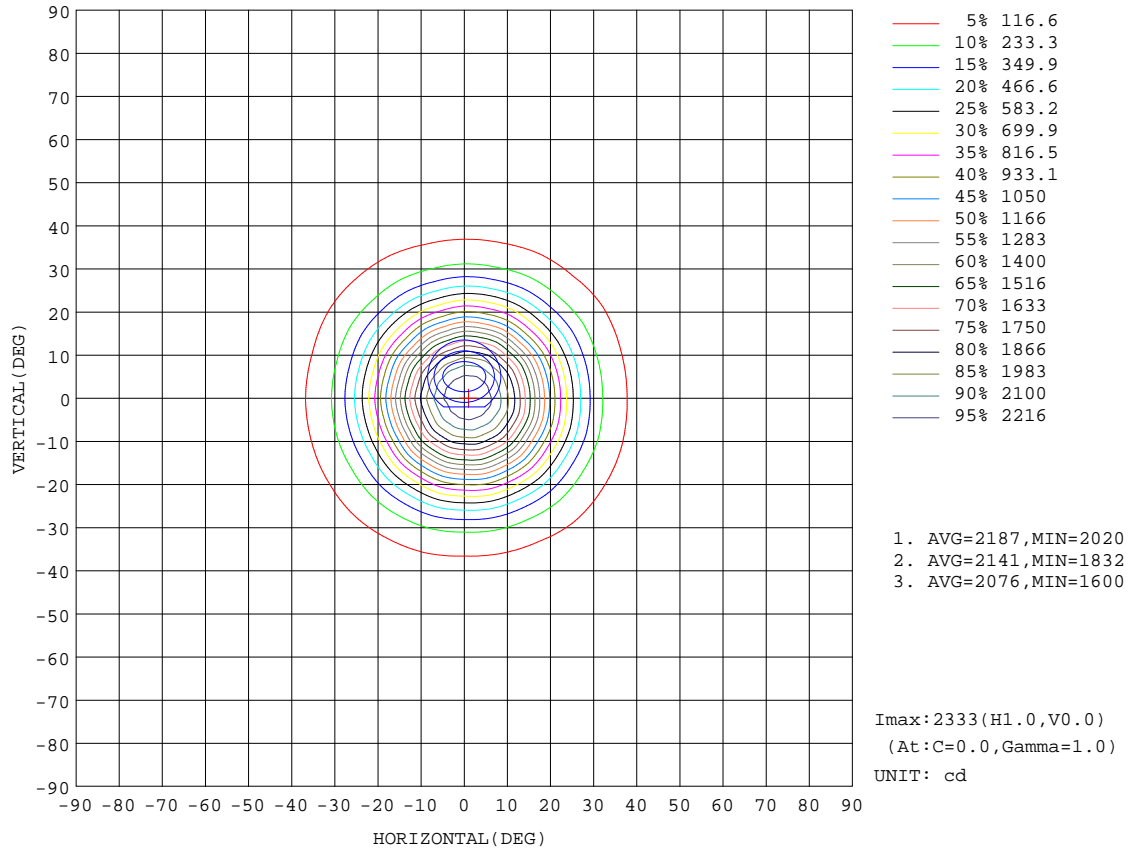
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	86	79	75	85	79	75	84	79	75	71
0.80	93	87	83	93	87	83	91	86	83	79
1.00	98	92	88	97	92	88	95	92	87	83
1.25	102	97	93	101	96	93	99	95	92	87
1.50	105	100	96	104	99	96	101	98	95	90
2.00	108	103	100	106	102	99	104	100	98	92
2.50	110	106	102	108	104	102	105	102	100	94
3.00	111	108	105	109	106	104	106	104	102	95
4.00	113	111	108	111	109	107	108	106	104	97
5.00	115	112	110	113	111	109	109	107	106	98
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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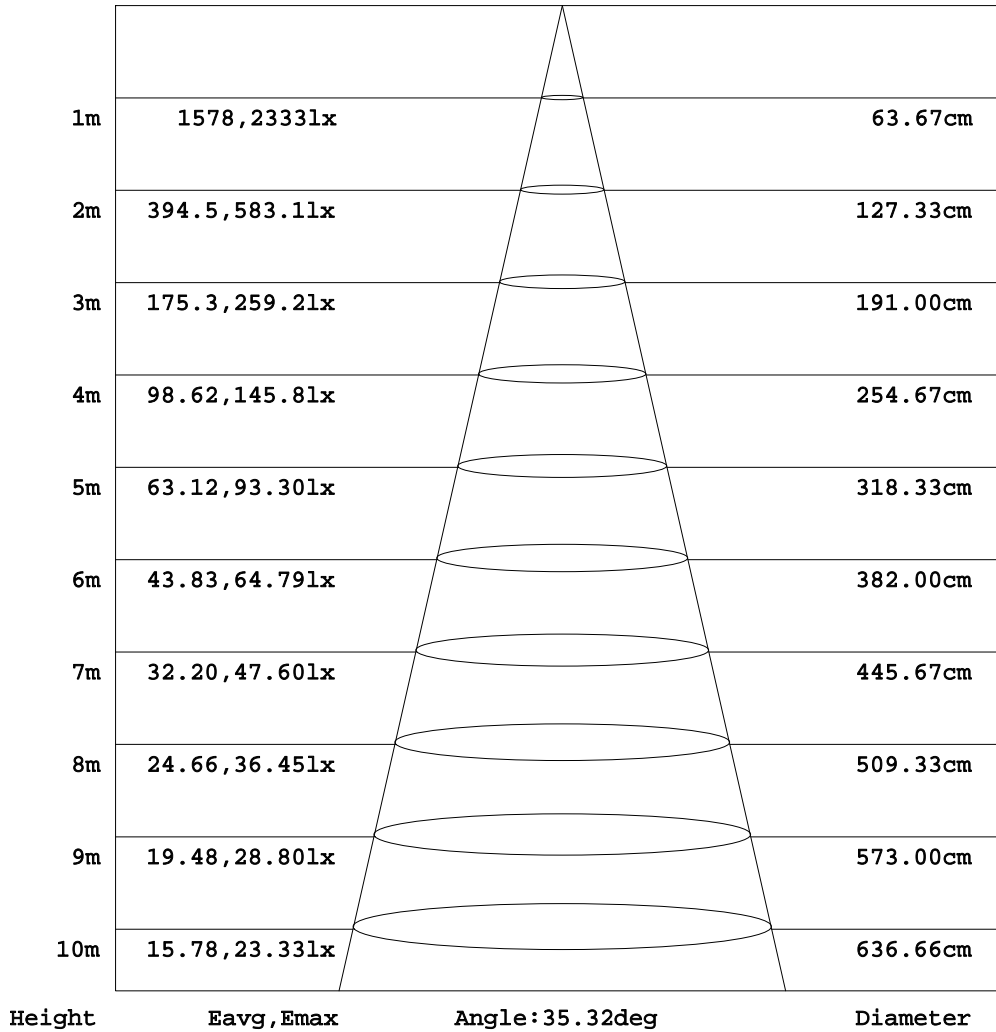
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AAI Figure

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Flux out:523.4 lm



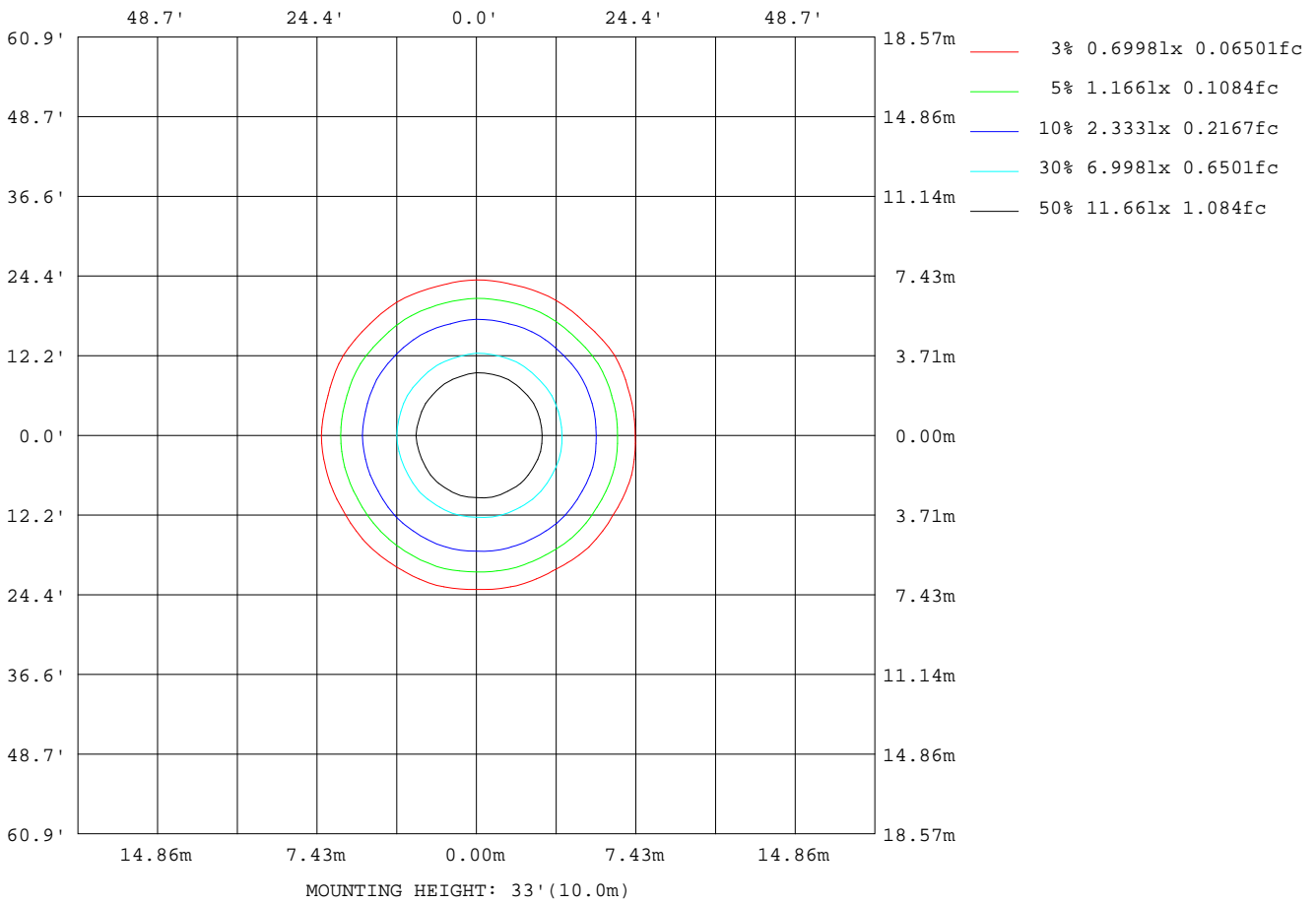
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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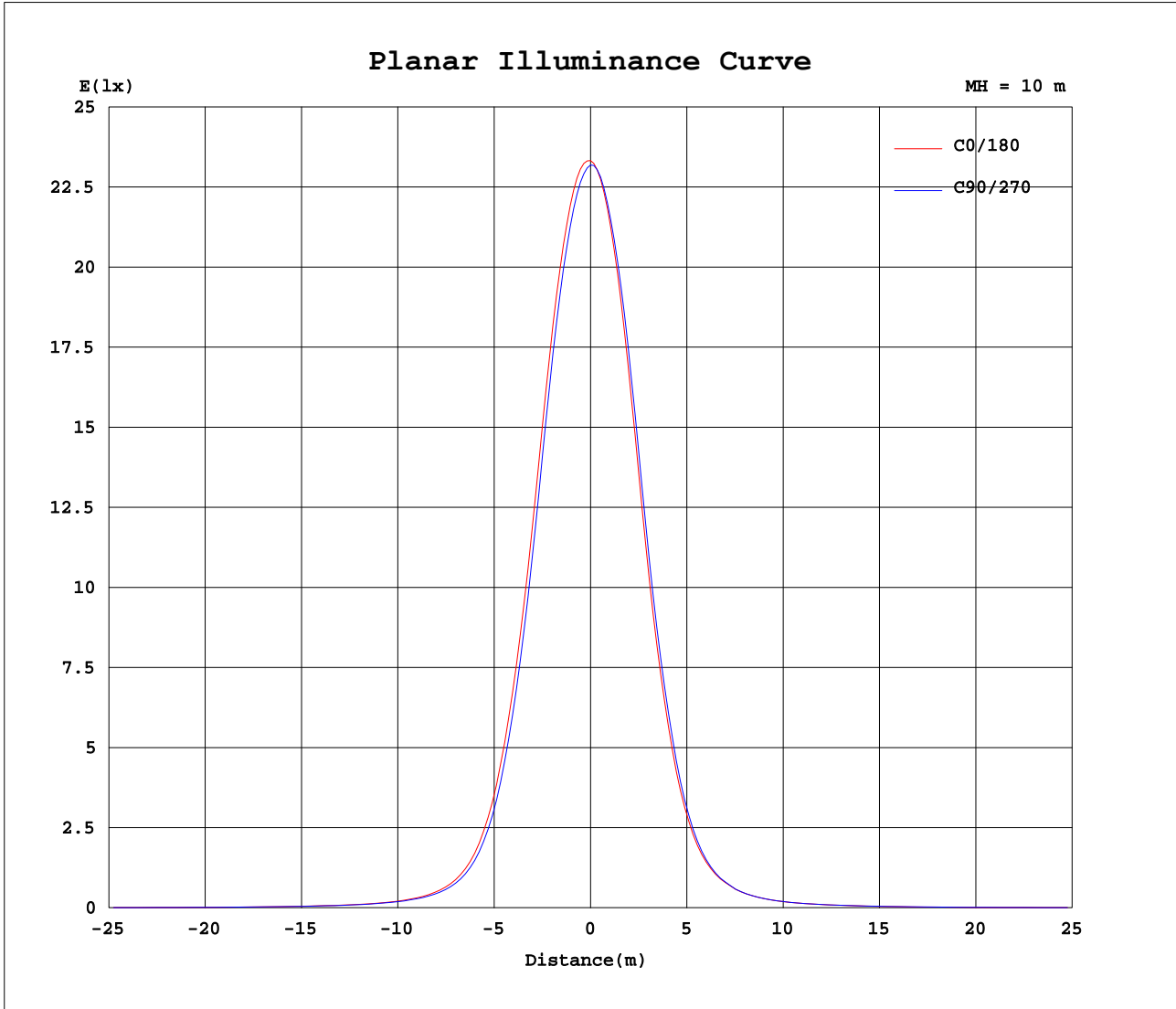
AvgL	cd/m2
L_0~180 (65) av	19150
L_0~180 (75) av	12490
L_0~180 (85) av	3573
L_90~270 (65) av	18834
L_90~270 (75) av	12123
L_90~270 (85) av	2961
L_45 (65) av	18843
L_45 (75) av	12274
L_45 (85) av	3422

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Myles
Test Date:2019-01-07

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:56%
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: Myles
 Test Date: 2019-01-07

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity: 56%
 Test Distance: 5.850m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.6V I:0.0654A P:12.92W PF:0.8958 Freq:49.90Hz Lamp Flux:1043.08x1 lm		
NAME: M3-11W-940-35	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: ϕ 50mm*H40mm	
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	2333	2328	2326	2323	2322	2321	2319	2318	2316	2316	2313	2312	2333	2328	2326	2323	2322	2321	2319
5	2266	2265	2248	2244	2227	2224	2207	2203	2189	2191	2178	2182	2209	2196	2206	2197	2209	2209	2226
10	2002	2011	1988	1982	1950	1945	1911	1911	1886	1886	1854	1855	1882	1858	1876	1866	1896	1897	1938
15	1546	1564	1534	1536	1494	1487	1438	1439	1404	1403	1361	1359	1383	1353	1373	1359	1397	1401	1456
20	1031	1045	1021	1028	989	977	934	932	899	894	860	860	881	865	882	869	898	896	941
25	604	617	601	598	568	555	528	529	506	500	477	481	493	483	495	492	507	505	531
30	312	320	307	307	287	282	270	272	264	260	249	253	257	253	261	256	264	261	272
35	160	164	158	156	147	147	140	145	140	141	136	140	144	138	145	140	145	140	146
40	92.2	93.9	91.7	90.6	85.6	84.4	82.6	84.5	82.2	82.5	82.8	82.9	84.5	82.9	84.0	83.9	84.2	83.2	84.5
45	59.3	60.7	59.4	58.8	56.1	55.7	54.5	55.2	53.3	54.3	54.4	54.7	55.4	54.7	55.0	55.0	55.3	54.6	55.6
50	42.1	43.2	42.3	41.9	40.4	40.1	39.5	39.7	38.5	39.1	39.4	39.7	40.3	40.2	40.4	40.0	39.8	39.6	40.1
55	32.2	32.6	31.5	31.4	30.8	30.3	30.0	30.3	29.4	29.9	29.8	29.9	30.4	30.2	30.4	30.3	30.6	30.7	31.0
60	23.4	24.1	23.7	23.6	22.7	22.5	22.2	22.2	21.8	22.1	21.8	21.6	21.8	21.6	21.8	22.0	22.2	22.3	22.7
65	16.7	16.7	16.4	16.3	15.7	15.6	15.4	15.6	15.2	15.3	15.0	14.9	15.1	14.8	15.0	15.1	15.3	15.5	15.8
70	11.2	11.2	11.0	11.0	10.5	10.4	10.3	10.4	10.2	10.2	10.0	10.0	10.1	9.81	9.97	10.0	10.2	10.3	10.5
75	6.82	6.87	6.69	6.70	6.32	6.27	6.14	6.14	5.99	6.02	5.87	5.83	5.86	5.68	5.80	5.79	5.85	5.91	6.18
80	3.45	3.50	3.36	3.34	3.11	3.07	2.96	2.96	2.84	2.84	2.69	2.66	2.71	2.61	2.69	2.63	2.71	2.74	2.92
85	0.89	0.94	0.85	0.82	0.71	0.66	0.54	0.47	0.43	0.39	0.35	0.32	0.33	0.34	0.34	0.36	0.37	0.41	0.48
90	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.04	0.04	0.04	0.04	0.04	0.04	0.04

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Myles
 Test Date:2019-01-07

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:56%
 Test Distance:5.850m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.6V I:0.0654A P:12.92W PF:0.8958 Freq:49.90Hz Lamp Flux:1043.08x1 lm		
NAME: M3-11W-940-35	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: φ50mm*H40mm	
MFR.: NEKO LIGHTING AG		

Table--2

UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345														
0	2318	2316	2316	2313	2312														
5	2229	2246	2246	2255	2250														
10	1945	1975	1973	1996	1988														
15	1468	1512	1508	1547	1541														
20	948	984	984	1022	1025														
25	545	565	571	595	604														
30	275	291	294	313	313														
35	145	151	151	162	160														
40	85.4	88.2	87.3	92.7	92.2														
45	55.6	57.4	56.6	59.2	58.9														
50	40.0	41.2	40.7	41.7	41.5														
55	30.9	31.7	31.5	31.4	31.7														
60	22.6	23.3	23.2	23.2	23.3														
65	15.8	16.0	15.8	16.4	16.5														
70	10.7	10.6	10.7	11.1	11.2														
75	6.25	6.40	6.43	6.77	6.85														
80	2.96	3.16	3.25	3.46	3.49														
85	0.53	0.67	0.77	0.89	0.92														
90	0.04	0.04	0.04	0.04	0.04														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Myles
 Test Date:2019-01-07

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:56%
 Test Distance:5.850m [K=1.0000]
 Remarks: