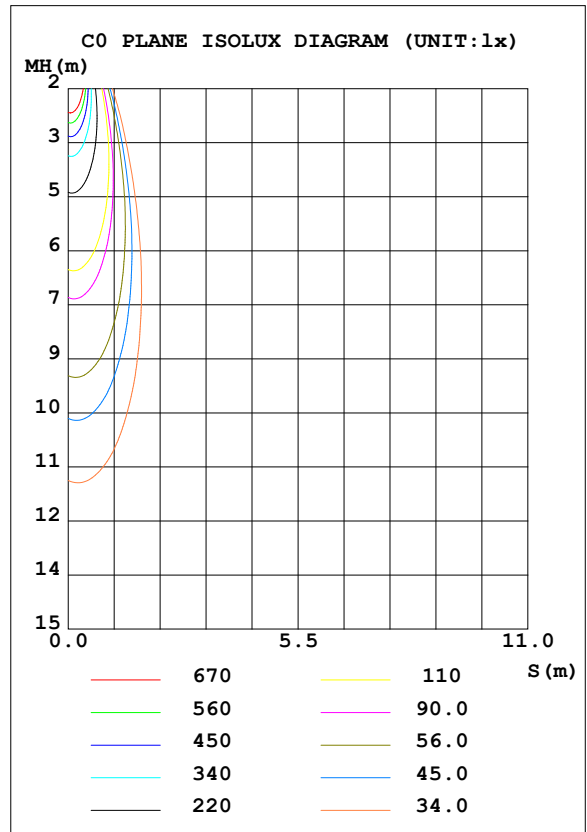
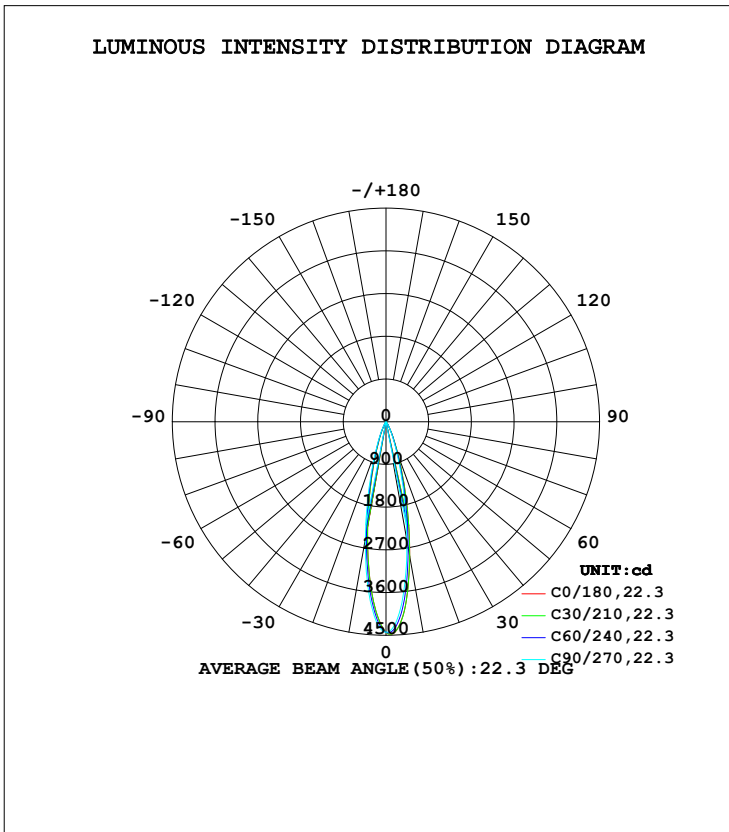


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:221.0V I:0.0680A P:14.42W PF:0.9593 Freq:49.90Hz Lamp Flux:875.677x1 lm		
NAME: PURE Art-15W-927-24D	TYPE:Tracklight	SERIAL No.:
SPEC.:2700K	DIM.: φ55mm*H150mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	CITIZEN-2700K	Imax (cd)	4478	S/MH (C0/180)	0.34
NOMINAL POWER (W)	15	LOR (%)	100.0	S/MH (C90/270)	0.38
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	875.68	η UP, DN (C0-180)	0.0,51.7
NOMINAL FLUX (lm)	875.677	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0,48.3
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	1.00



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jasoan
Test Date:2022-05-10

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:58%
Test Distance:8.967m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	2881	2783	2538	2289	2227	2305	2505	2783	0- 10	322.2	322.2	36.8,36.8
20	751.9	722.3	625.4	526.6	490.5	515.7	579.8	695.9	10- 20	375.2	697.5	79.6,79.6
30	129.8	136.2	128.4	95.44	78.86	84.86	104.6	124.0	20- 30	131.4	828.9	94.7,94.7
40	30.41	30.86	27.79	23.41	21.36	22.13	24.97	28.46	30- 40	33.86	862.7	98.5,98.5
50	6.819	6.594	5.813	5.002	4.576	5.181	5.602	6.667	40- 50	9.932	872.7	99.7,99.7
60	1.324	1.302	1.054	0.7605	0.5724	0.7549	1.000	1.241	50- 60	2.574	875.2	100,100
70	0.1411	0.1045	0.0680	0.0941	0.0574	0.0887	0.1100	0.0993	60- 70	0.3209	875.6	100,100
80	0.0679	0.0470	0.0314	0.0470	0.0313	0.0418	0.0575	0.0470	70- 80	0.0671	875.6	100,100
90	0.0313	0.0288	0.0314	0.0314	0.0366	0.0340	0.0366	0.0314	80- 90	0.0413	875.7	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): 869.39 lm

%lum = 99.3%

%lamp = 99.3%

Conical surface Flux(120deg): 875.25 lm

%lum = 100.0%

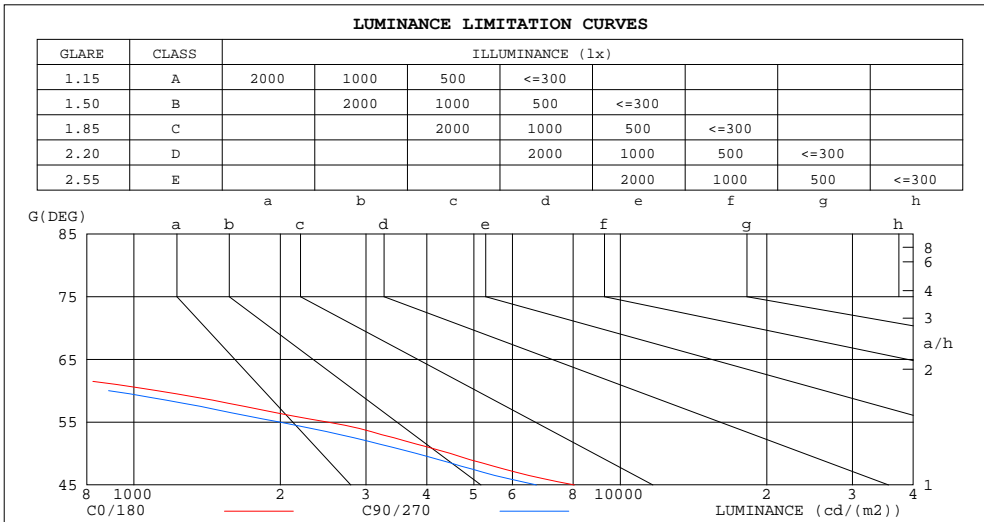
%lamp = 100.0%

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jasoan
Test Date:2022-05-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:58%
Test Distance:8.967m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:221.0V I:0.0680A P:14.42W PF:0.9593 Freq:49.90Hz Lamp Flux:875.677x1 lm		
NAME: PURE Art-15W-927-24D	TYPE:Tracklight	SERIAL No.:
SPEC.:2700K	DIM.: φ55mm*H150mm	
MFR.: NEKO LIGHTING AG		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	253	152
80	165	76
75	145	51
70	174	84
65	272	172
60	1116	887
55	2500	1993
50	4472	3806
45	8048	6724

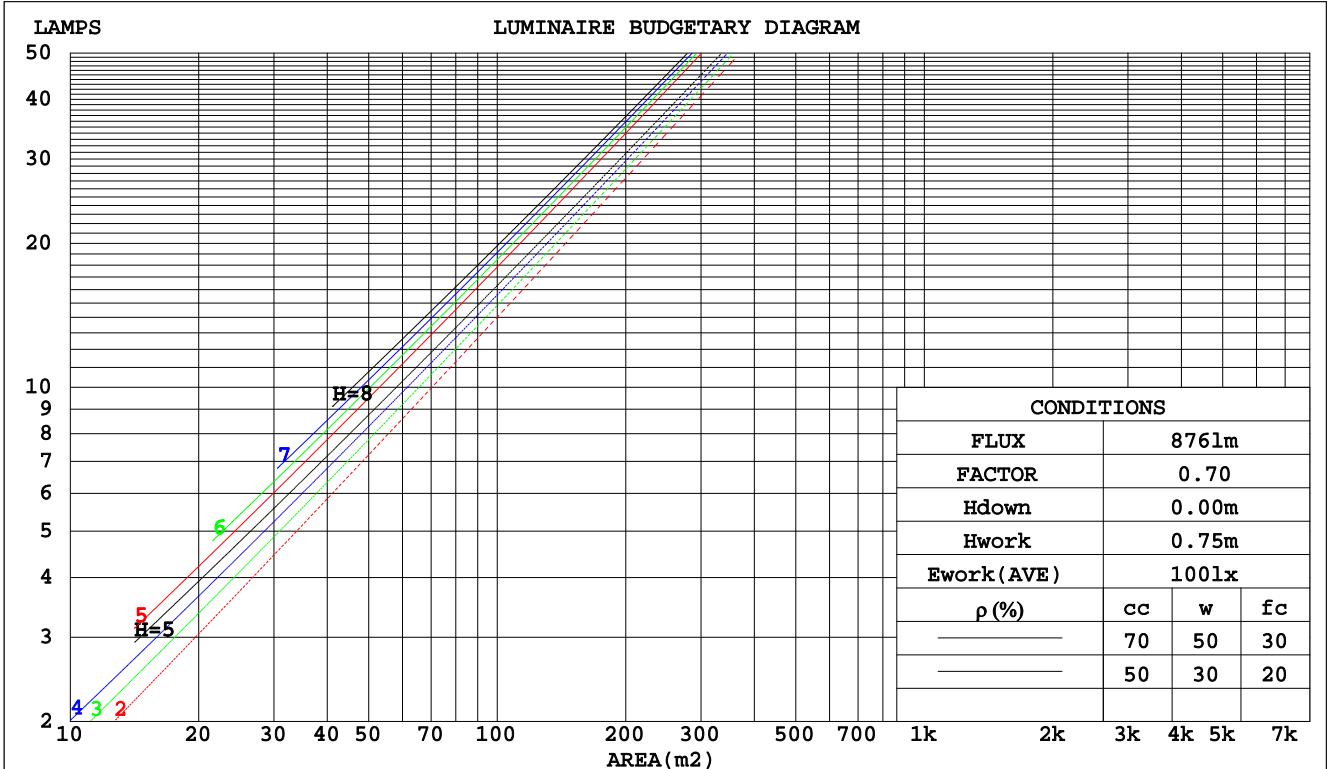
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Jasoan
 Test Date:2022-05-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:58%
 Test Distance:8.967m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:221.0V I:0.0680A P:14.42W PF:0.9593 Freq:49.90Hz Lamp Flux:875.677x1 lm		
NAME: PURE Art-15W-927-24D	TYPE:Tracklight	SERIAL No.:
SPEC.:2700K	DIM.: φ55mm*H150mm	
MFR.: NEKO LIGHTING AG		

pcc	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															
	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	.00
1.0	1.13	1.11	1.09	1.11	1.09	1.08	1.07	1.06	1.04	1.03	1.02	1.01	.00	.99	.98	.97
2.0	1.08	1.05	1.02	1.06	1.03	1.01	1.03	1.01	.99	1.00	.98	.97	.97	.96	.95	.93
3.0	1.03	.00	.97	1.02	.99	.96	.99	.97	.95	.97	.95	.93	.95	.93	.92	.90
4.0	.99	.95	.92	.98	.95	.92	.96	.93	.91	.94	.92	.90	.93	.90	.89	.88
5.0	.96	.92	.88	.95	.91	.88	.93	.90	.87	.92	.89	.87	.90	.88	.86	.85
6.0	.92	.88	.85	.92	.88	.85	.90	.87	.84	.89	.86	.84	.88	.85	.83	.82
7.0	.89	.85	.82	.89	.85	.82	.88	.84	.82	.87	.84	.81	.86	.83	.81	.80
8.0	.87	.83	.80	.86	.82	.80	.85	.82	.79	.84	.81	.79	.84	.81	.79	.78
9.0	.84	.80	.77	.84	.80	.77	.83	.80	.77	.82	.79	.77	.82	.79	.77	.76
10.0	.82	.78	.75	.82	.78	.75	.81	.77	.75	.80	.77	.75	.80	.77	.75	.74



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Jasoan
 Test Date:2022-05-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:58%
 Test Distance:8.967m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:221.0V I:0.0680A P:14.42W PF:0.9593 Freq:49.90Hz Lamp Flux:875.677x1 lm		
NAME: PURE Art-15W-927-24D	TYPE:Tracklight	SERIAL No.:
SPEC.:2700K	DIM.: φ55mm*H150mm	
MFR.: NEKO LIGHTING AG		

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	.136	.077	.024	.129	.074	.023	.117	.067	.021	.105	.061	.020	.095	.055	.018	
2.0	.126	.069	.021	.120	.066	.020	.110	.061	.019	.101	.057	.018	.092	.052	.016	
3.0	.117	.062	.019	.113	.060	.018	.104	.057	.017	.097	.053	.016	.089	.049	.015	
4.0	.110	.057	.017	.106	.056	.016	.099	.053	.016	.092	.050	.015	.086	.047	.014	
5.0	.104	.053	.015	.100	.052	.015	.094	.049	.014	.089	.047	.014	.083	.045	.013	
6.0	.098	.049	.014	.095	.048	.014	.090	.046	.013	.085	.044	.013	.081	.042	.013	
7.0	.093	.046	.013	.091	.045	.013	.086	.044	.013	.082	.042	.012	.078	.040	.012	
8.0	.089	.043	.012	.087	.043	.012	.083	.041	.012	.079	.040	.012	.075	.039	.011	
9.0	.085	.041	.011	.083	.040	.011	.080	.039	.011	.076	.038	.011	.073	.037	.011	
10.0	.081	.039	.011	.080	.038	.011	.077	.037	.011	.074	.037	.010	.071	.036	.010	

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	.168	.158	.148	.144	.135	.127	.098	.093	.088	.057	.054	.051	.018	.017	.017	
2.0	.150	.133	.118	.129	.114	.102	.088	.079	.071	.051	.046	.042	.016	.015	.014	
3.0	.135	.113	.096	.116	.098	.083	.080	.068	.058	.046	.040	.034	.015	.013	.011	
4.0	.123	.098	.079	.105	.085	.069	.072	.059	.048	.042	.035	.029	.013	.011	.009	
5.0	.112	.086	.066	.096	.074	.057	.066	.052	.041	.038	.030	.024	.012	.010	.008	
6.0	.103	.076	.056	.089	.065	.049	.061	.046	.034	.035	.027	.020	.011	.009	.007	
7.0	.096	.067	.048	.082	.058	.041	.057	.041	.029	.033	.024	.018	.011	.008	.006	
8.0	.089	.061	.041	.077	.053	.036	.053	.037	.025	.031	.022	.015	.010	.007	.005	
9.0	.083	.055	.036	.072	.048	.031	.050	.034	.022	.029	.020	.013	.009	.006	.004	
10.0	.078	.050	.031	.068	.044	.027	.047	.031	.019	.027	.018	.012	.009	.006	.004	

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Jasoan
 Test Date:2022-05-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:58%
 Test Distance:8.967m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:221.0V I:0.0680A P:14.42W PF:0.9593 Freq:49.90Hz Lamp Flux:875.677x1 lm		
NAME: PURE Art-15W-927-24D	TYPE:Tracklight	SERIAL No.:
SPEC.:2700K	DIM.: φ55mm*H150mm	
MFR.: NEKO LIGHTING AG		

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	11.9	11.4	12.0	12.2	10.9	11.5	11.1	11.7	11.8
3H	11.1	11.7	11.3	11.9	12.1	10.7	11.3	11.0	11.5	11.7
4H	11.0	11.6	11.3	11.8	12.0	10.6	11.2	10.9	11.4	11.6
6H	10.9	11.5	11.2	11.7	11.9	10.6	11.1	10.8	11.3	11.6
8H	10.9	11.4	11.2	11.7	11.9	10.5	11.0	10.8	11.3	11.5
12H	10.8	11.3	11.1	11.6	11.9	10.5	11.0	10.8	11.2	11.5
4H 2H	11.0	11.6	11.3	11.8	12.0	10.7	11.2	10.9	11.4	11.7
3H	10.9	11.4	11.2	11.6	11.9	10.5	11.0	10.8	11.3	11.5
4H	10.8	11.2	11.1	11.5	11.8	10.4	10.9	10.7	11.2	11.5
6H	10.7	11.1	11.0	11.4	11.7	10.3	10.7	10.7	11.0	11.4
8H	10.6	11.0	11.0	11.3	11.7	10.2	10.6	10.6	11.0	11.3
12H	10.5	10.9	11.0	11.3	11.7	10.2	10.5	10.6	10.9	11.3
8H 4H	10.6	11.0	11.0	11.3	11.7	10.2	10.6	10.6	11.0	11.3
6H	10.5	10.8	10.9	11.2	11.6	10.1	10.4	10.6	10.8	11.2
8H	10.4	10.7	10.9	11.1	11.6	10.1	10.4	10.5	10.8	11.2
12H	10.4	10.6	10.8	11.0	11.5	10.0	10.3	10.5	10.7	11.2
12H 4H	10.5	10.9	10.9	11.3	11.6	10.2	10.5	10.6	10.9	11.3
6H	10.4	10.7	10.9	11.1	11.6	10.1	10.4	10.5	10.8	11.2
8H	10.4	10.6	10.8	11.0	11.5	10.0	10.2	10.5	10.7	11.2
Variations with the observer position at spacings:										
S = 1.0H	+ 2.9 / -10.3					+ 2.7 / -10.9				
1.5H	+ 4.8 / - 7.3					+ 4.7 / - 6.9				
2.0H	+ 5.7 / -11.6					+ 5.1 / -11.2				

CIE Pub.117, 875.7 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.5)

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Jasoan
 Test Date:2022-05-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:58%
 Test Distance:8.967m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:221.0V I:0.0680A P:14.42W PF:0.9593 Freq:49.90Hz Lamp Flux:875.677x1 lm		
NAME: PURE Art-15W-927-24D	TYPE:Tracklight	SERIAL No.:
SPEC.:2700K	DIM.: φ55mm*H150mm	
MFR.: NEKO LIGHTING AG		

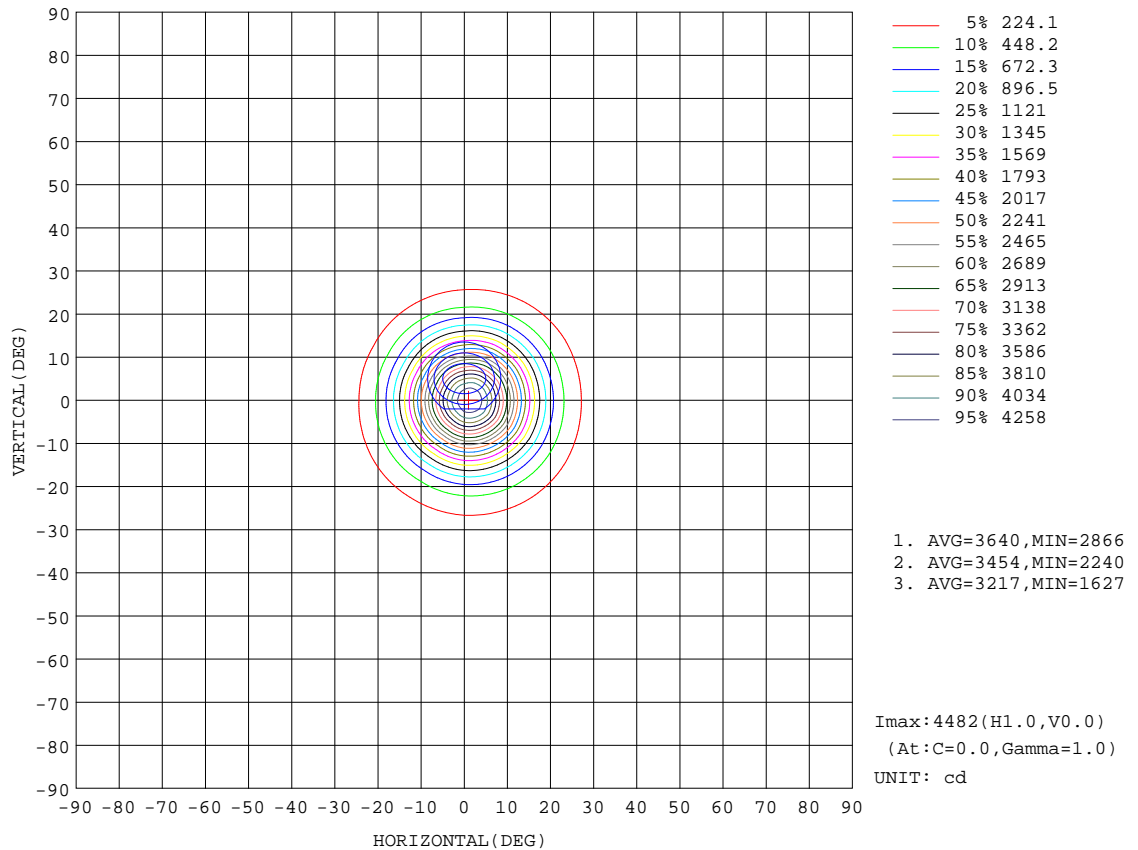
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	91	85	81	90	85	81	89	84	81	78
0.80	98	92	89	97	92	89	96	91	89	85
1.00	101	96	93	101	96	93	99	96	92	89
1.25	105	100	97	104	100	97	102	99	96	92
1.50	108	103	100	106	103	100	104	101	99	95
2.00	110	106	103	108	105	102	106	103	101	96
2.50	111	108	105	110	107	104	107	104	102	97
3.00	113	110	107	111	108	106	108	105	104	98
4.00	114	112	110	112	110	109	109	107	106	99
5.00	116	114	112	114	112	110	110	108	107	100
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Jasoan
 Test Date:2022-05-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:58%
 Test Distance:8.967m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:221.0V I:0.0680A P:14.42W PF:0.9593 Freq:49.90Hz Lamp Flux:875.677x1 lm		
NAME: PURE Art-15W-927-24D	TYPE:Tracklight	SERIAL No.:
SPEC.:2700K	DIM.: φ55mm*H150mm	
MFR.: NEKO LIGHTING AG		

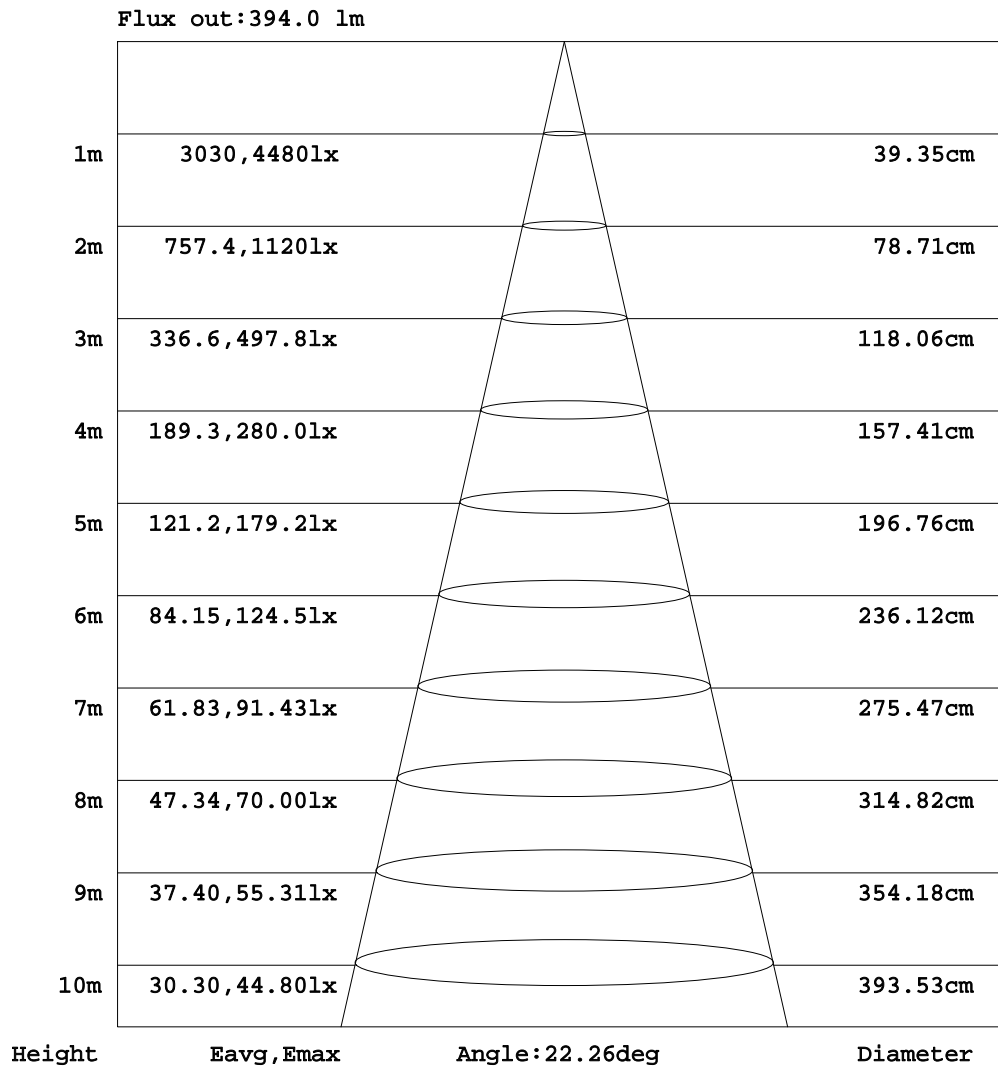


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jasoan
Test Date: 2022-05-10

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 8.967m [K=1.0000]
Remarks:

AAI Figure

Test:U:221.0V I:0.0680A P:14.42W PF:0.9593 Freq:49.90Hz Lamp Flux:875.677x1 lm		
NAME: PURE Art-15W-927-24D	TYPE:Tracklight	SERIAL No.:
SPEC.:2700K	DIM.: φ55mm*H150mm	
MFR.: NEKO LIGHTING AG		



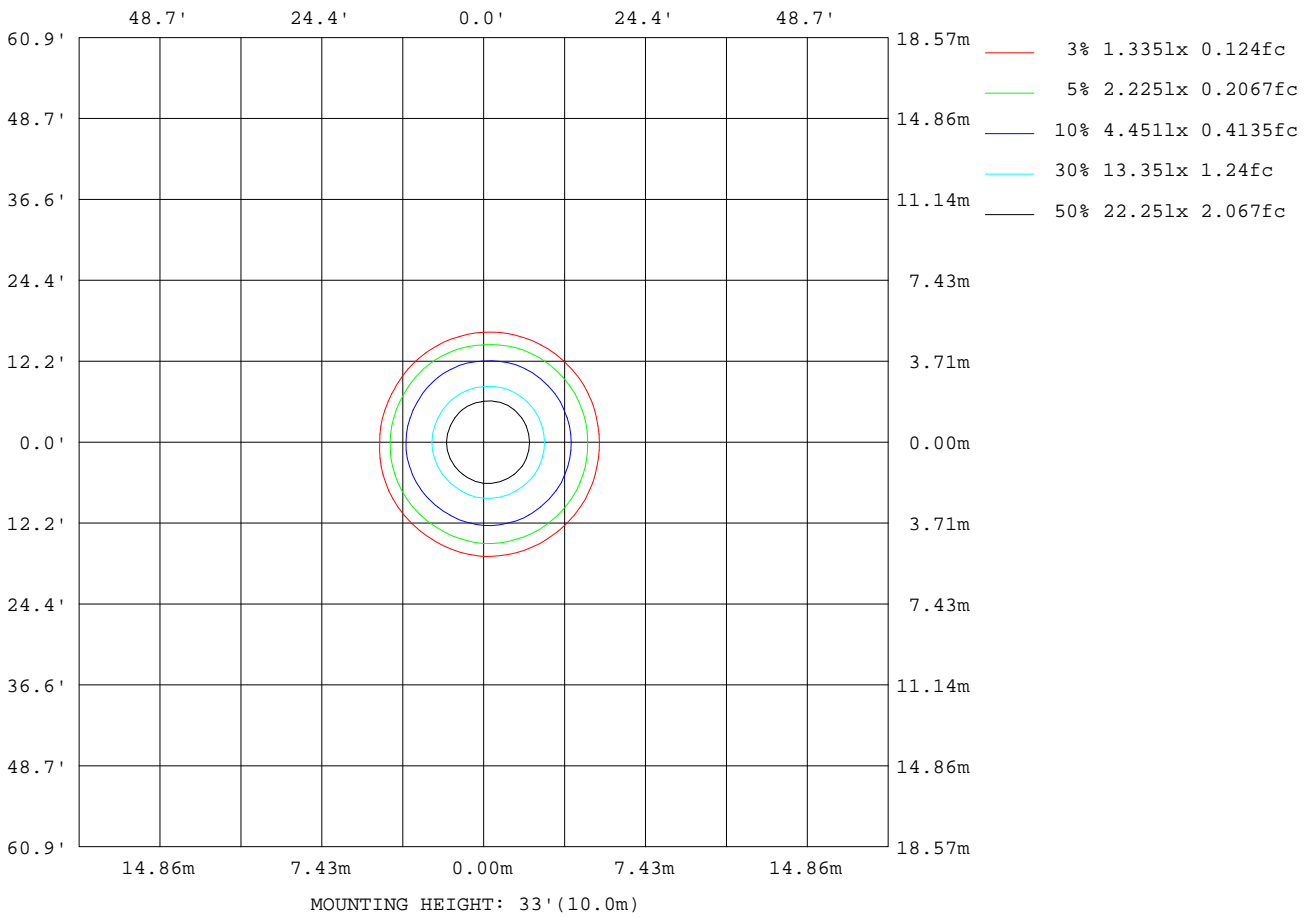
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jasoan
Test Date:2022-05-10

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:58%
Test Distance:8.967m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:221.0V I:0.0680A P:14.42W PF:0.9593 Freq:49.90Hz Lamp Flux:875.677x1 lm		
NAME: PURE Art-15W-927-24D	TYPE:Tracklight	SERIAL No.:
SPEC.:2700K	DIM.: φ55mm*H150mm	
MFR.: NEKO LIGHTING AG		



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Jasoan
 Test Date:2022-05-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:58%
 Test Distance:8.967m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:221.0V I:0.0680A P:14.42W PF:0.9593 Freq:49.90Hz Lamp Flux:875.677x1 lm		
NAME: PURE Art-15W-927-24D	TYPE:Tracklight	SERIAL No.:
SPEC.:2700K	DIM.: φ55mm*H150mm	
MFR.: NEKO LIGHTING AG		

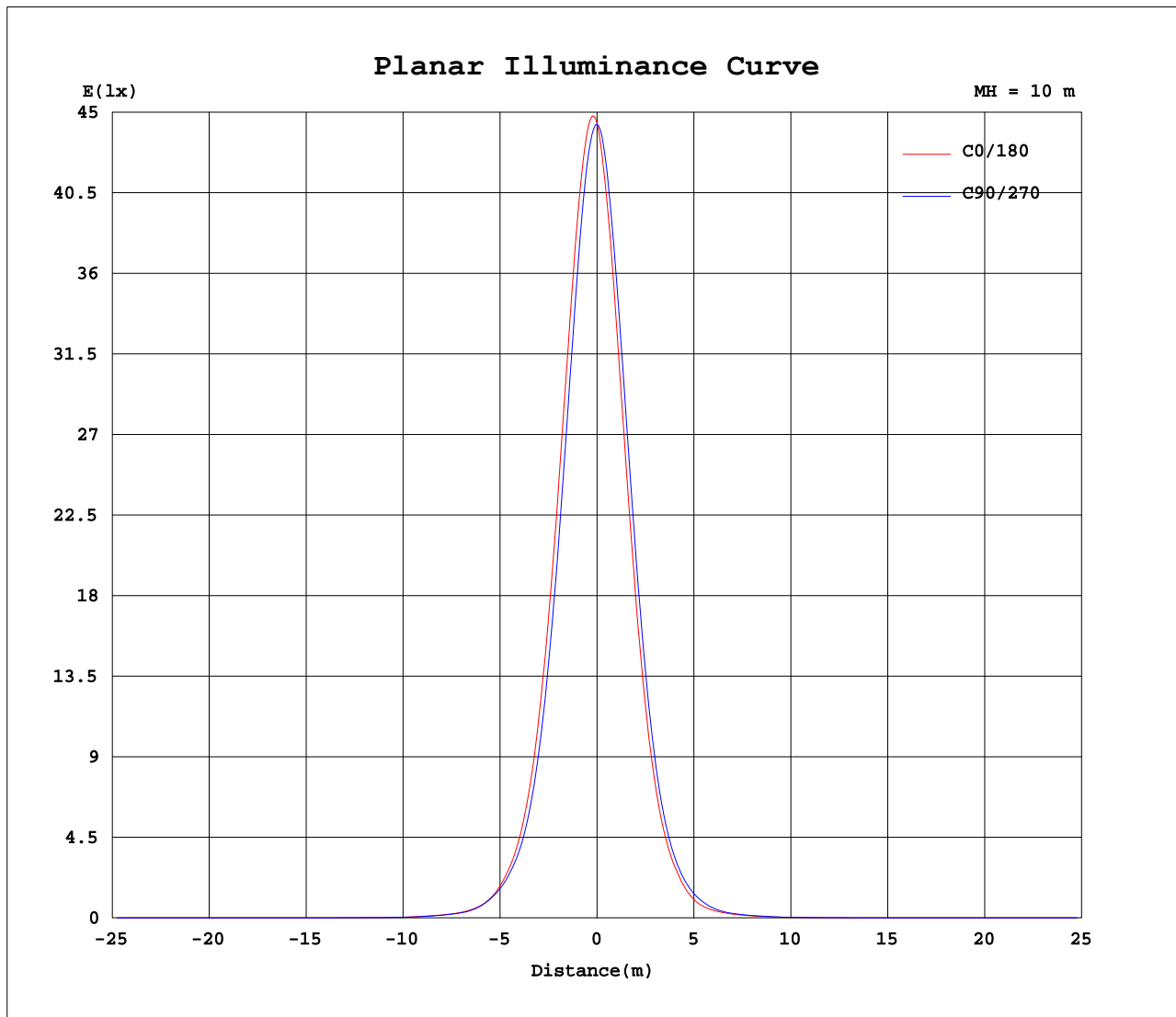
AvgL	cd/m2
L_0~180 (65) av	196
L_0~180 (75) av	98
L_0~180 (85) av	202
L_90~270 (65) av	188
L_90~270 (75) av	85
L_90~270 (85) av	177
L_45 (65) av	189
L_45 (75) av	97
L_45 (85) av	186

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jasoan
Test Date:2022-05-10

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:58%
Test Distance:8.967m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Jasoan
 Test Date: 2022-05-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity: 58%
 Test Distance: 8.967m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:221.0V I:0.0680A P:14.42W PF:0.9593 Freq:49.90Hz Lamp Flux:875.677x1 lm		
NAME: PURE Art-15W-927-24D	TYPE:Tracklight	SERIAL No.:
SPEC.:2700K	DIM.: φ55mm*H150mm	
MFR.: NEKO LIGHTING AG		

Table--1

UNIT: cd

C (DEG) \ γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	4435	4435	4435	4435	4435	4435	4435	4435	4435	4435	4435	4435						
5	4104	4110	3966	3836	3664	3578	3561	3564	3676	3794	3971	4067						
10	2881	2874	2693	2538	2330	2249	2227	2235	2375	2505	2726	2839						
15	1611	1602	1475	1356	1202	1140	1119	1121	1220	1312	1480	1572						
20	752	752	692	625	543	510	490	492	540	580	665	727						
25	330	339	320	291	249	224	198	198	224	249	285	318						
30	130	137	135	128	103	88.3	78.9	79.3	90.4	105	120	128						
35	58.0	61.1	59.2	53.1	46.0	42.2	39.8	39.6	42.9	46.5	51.9	55.4						
40	30.4	31.3	30.4	27.8	24.4	22.4	21.4	21.2	23.1	25.0	27.7	29.2						
45	13.5	13.1	12.4	11.3	10.01	9.33	9.07	9.41	10.1	10.9	12.8	13.4						
50	6.82	6.65	6.54	5.81	5.15	4.86	4.58	4.91	5.45	5.60	6.69	6.64						
55	3.40	3.30	3.21	2.72	2.26	2.10	1.78	1.95	2.28	2.50	3.14	3.14						
60	1.32	1.30	1.30	1.05	0.85	0.67	0.57	0.68	0.83	1.00	1.22	1.27						
65	0.27	0.23	0.25	0.17	0.19	0.12	0.12	0.17	0.14	0.20	0.17	0.25						
70	0.14	0.08	0.13	0.07	0.12	0.07	0.06	0.10	0.07	0.11	0.07	0.13						
75	0.09	0.06	0.09	0.03	0.08	0.03	0.03	0.07	0.03	0.07	0.03	0.09						
80	0.07	0.02	0.07	0.03	0.06	0.03	0.03	0.05	0.03	0.06	0.03	0.07						
85	0.05	0.02	0.05	0.03	0.05	0.03	0.03	0.04	0.03	0.04	0.03	0.06						
90	0.03	0.02	0.04	0.03	0.03	0.03	0.04	0.04	0.03	0.04	0.03	0.04						

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