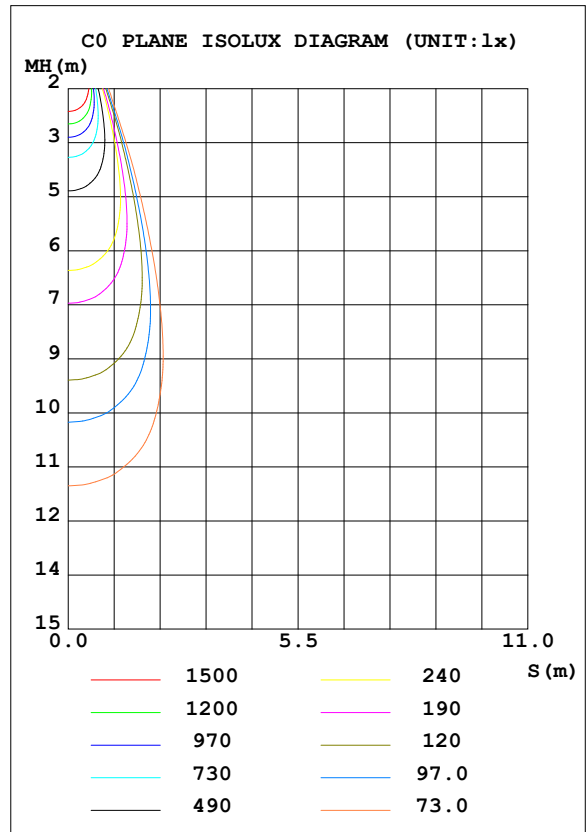
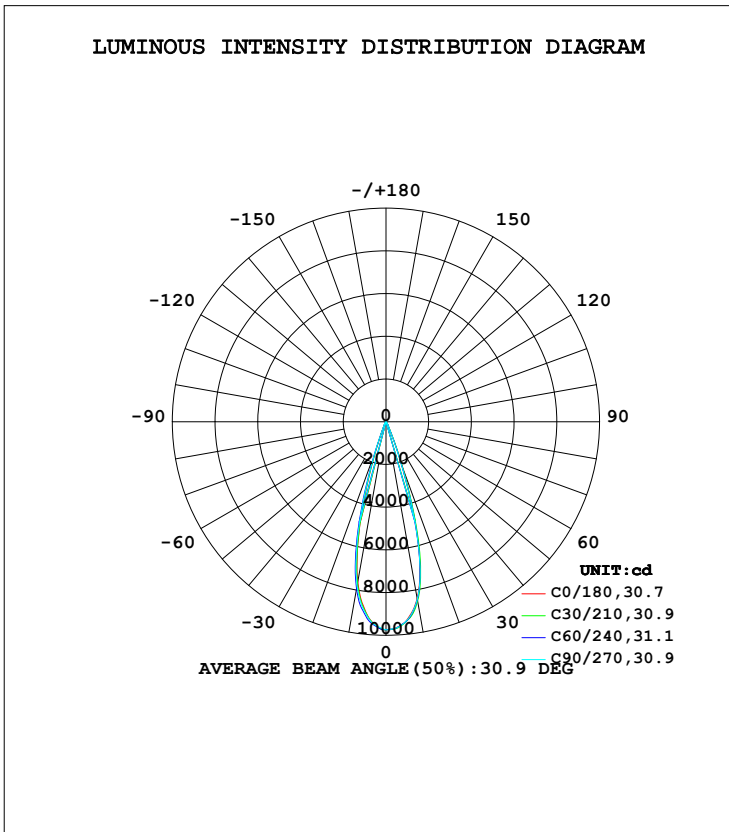


**LUMINAIRE PHOTOMETRIC TEST REPORT**

Test:U:220.9V I:0.0910A P:19.09W PF:0.9497 Freq:59.98Hz Lamp Flux:2568.7x1 lm		
NAME: T150 Pro-17W-830-30	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: φ160mm*H100mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 134.56 lm/W			
MODEL	CITIZEN-3000K	Imax (cd)	9742	S/MH (C0/180)	0.44
NOMINAL POWER (W)	20	LOR (%)	100.0	S/MH (C90/270)	0.45
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	2568.7	η UP, DN (C0-180)	0.0,52.3
NOMINAL FLUX (lm)	2568.7	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0,47.7
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:2023-04-18

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:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	8407	8490	8435	7847	7611	7814	7812	8120	0- 10	853.3	853.3	33.2,33.2
20	2216	2186	2112	1455	1230	1367	1420	1870	10- 20	1328	2181	84.9,84.9
30	213.4	208.7	217.2	195.1	175.5	179.5	185.1	207.6	20- 30	253.6	2434	94.8,94.8
40	80.29	81.43	85.32	81.72	77.13	76.06	78.55	80.12	30- 40	78.36	2513	97.8,97.8
50	25.41	25.89	28.64	28.56	27.96	27.64	27.33	27.49	40- 50	38.60	2551	99.3,99.3
60	4.815	4.641	5.544	6.053	6.149	6.331	6.175	5.980	50- 60	13.01	2564	99.8,99.8
70	1.472	1.375	1.659	1.845	1.836	1.867	1.859	1.833	60- 70	3.403	2568	100,100
80	0.1748	0.1443	0.1354	0.1421	0.0871	0.1063	0.1367	0.1391	70- 80	0.7797	2569	100,100
90	0.0925	0.0953	0.0926	0.0926	0.0871	0.0871	0.0926	0.0872	80- 90	0.1098	2569	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): 2536.3 lm

%lum = 98.7%

%lamp = 98.7%

Conical surface Flux(120deg): 2564.4 lm

%lum = 99.8%

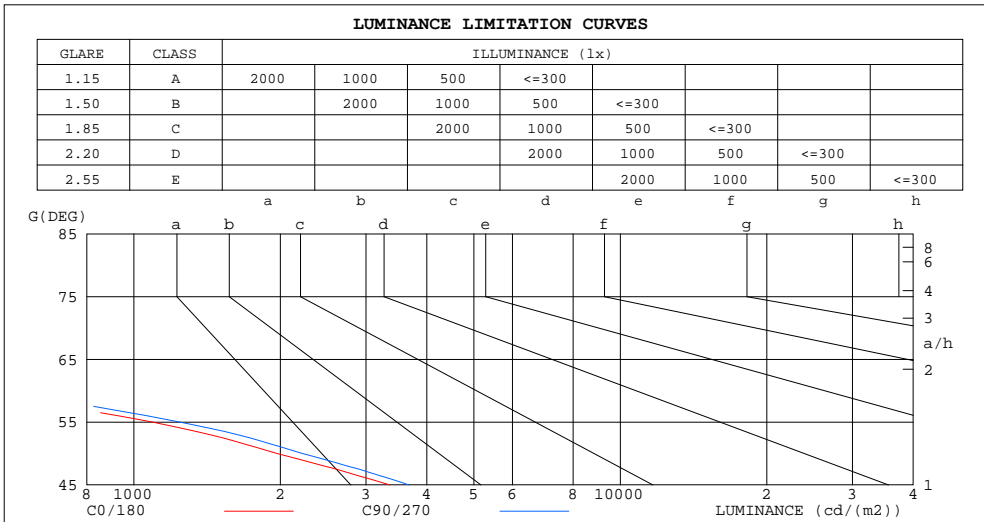
%lamp = 99.8%

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jasoan  
Test Date:2023-04-18

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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:220.9V I:0.0910A P:19.09W PF:0.9497 Freq:59.98Hz Lamp Flux:2568.7x1 lm		
NAME: T150 Pro-17W-830-30	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: φ160mm*H100mm	
MFR.: NEKO LIGHTING AG		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	68	53
80	50	39
75	118	129
70	214	241
65	330	375
60	479	552
55	1091	1242
50	1968	2218
45	3358	3675

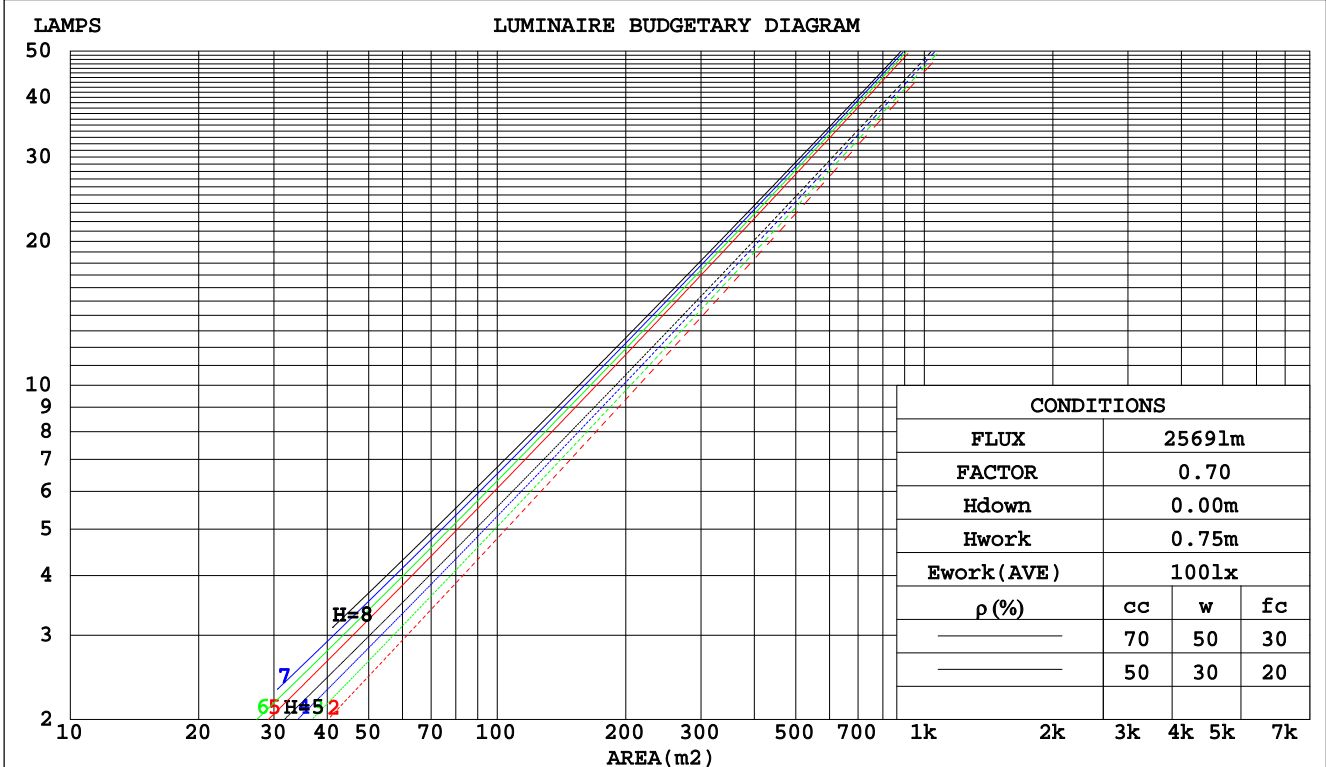
C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Jasoan  
 Test Date:2023-04-18

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:220.9V I:0.0910A P:19.09W PF:0.9497 Freq:59.98Hz Lamp Flux:2568.7x1 lm		
NAME: T150 Pro-17W-830-30	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: φ160mm*H100mm	
MFR.: NEKO LIGHTING AG		

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	1.19	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	1.05	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	.94	.97	.95	.93	.95	.93	.92	.90
4.0	.99	.95	.92	.98	.94	.92	.96	.93	.91	.94	.92	.90	.93	.90	.89	.87
5.0	.96	.91	.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	.79	.77	.82	.79	.77	.81	.79	.77	.76
10.0	.82	.78	.75	.81	.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:2023-04-18

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:220.9V I:0.0910A P:19.09W PF:0.9497 Freq:59.98Hz Lamp Flux:2568.7x1 lm		
NAME: T150 Pro-17W-830-30	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: φ160mm*H100mm	
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	.078	.025	.130	.074	.024	.117	.067	.022	.106	.061	.020	.096	.055	.018	
2.0	.126	.069	.021	.121	.067	.021	.111	.062	.019	.101	.057	.018	.093	.052	.017	
3.0	.118	.063	.019	.113	.061	.018	.105	.057	.017	.097	.053	.016	.090	.050	.015	
4.0	.110	.057	.017	.107	.056	.016	.099	.053	.016	.093	.050	.015	.087	.047	.014	
5.0	.104	.053	.015	.101	.052	.015	.095	.049	.015	.089	.047	.014	.084	.045	.013	
6.0	.098	.049	.014	.096	.048	.014	.090	.046	.013	.085	.044	.013	.081	.043	.013	
7.0	.093	.046	.013	.091	.045	.013	.086	.044	.013	.082	.042	.012	.078	.041	.012	
8.0	.089	.043	.012	.087	.043	.012	.083	.041	.012	.079	.040	.012	.076	.039	.011	
9.0	.085	.041	.011	.083	.041	.011	.080	.039	.011	.076	.038	.011	.073	.037	.011	
10.0	.082	.039	.011	.080	.039	.011	.077	.038	.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	.099	.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	.036	.027	.020	.011	.009	.007	
7.0	.096	.067	.048	.082	.058	.041	.057	.041	.029	.033	.024	.017	.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	.079	.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:2023-04-18

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:220.9V I:0.0910A P:19.09W PF:0.9497 Freq:59.98Hz Lamp Flux:2568.7x1 lm		
NAME: T150 Pro-17W-830-30	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: φ160mm*H100mm	
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	2.5	3.1	2.7	3.3	3.4	2.7	3.4	2.9	3.5	3.7
3H	2.4	3.0	2.6	3.2	3.3	2.6	3.2	2.8	3.4	3.6
4H	2.3	2.9	2.6	3.1	3.3	2.5	3.1	2.8	3.3	3.5
6H	2.2	2.8	2.5	3.0	3.2	2.4	3.0	2.7	3.2	3.5
8H	2.2	2.7	2.5	2.9	3.2	2.4	2.9	2.7	3.2	3.4
12H	2.1	2.6	2.4	2.9	3.2	2.4	2.9	2.7	3.1	3.4
4H 2H	2.3	2.9	2.6	3.1	3.3	2.5	3.1	2.8	3.3	3.5
3H	2.2	2.7	2.5	2.9	3.2	2.4	2.9	2.7	3.2	3.4
4H	2.1	2.6	2.4	2.8	3.1	2.3	2.8	2.7	3.1	3.4
6H	2.0	2.4	2.4	2.7	3.1	2.2	2.6	2.6	3.0	3.3
8H	1.9	2.3	2.3	2.7	3.0	2.2	2.6	2.6	2.9	3.3
12H	1.9	2.2	2.3	2.6	3.0	2.1	2.5	2.5	2.8	3.2
8H 4H	1.9	2.3	2.3	2.7	3.0	2.2	2.6	2.6	2.9	3.3
6H	1.8	2.1	2.3	2.5	2.9	2.1	2.4	2.5	2.8	3.2
8H	1.8	2.1	2.2	2.5	2.9	2.0	2.3	2.4	2.7	3.1
12H	1.7	2.0	2.2	2.4	2.9	1.9	2.2	2.4	2.6	3.1
12H 4H	1.9	2.2	2.3	2.6	3.0	2.1	2.5	2.5	2.8	3.2
6H	1.8	2.1	2.2	2.5	2.9	2.0	2.3	2.4	2.7	3.1
8H	1.7	1.9	2.2	2.4	2.9	1.9	2.2	2.4	2.6	3.1
Variations with the observer position at spacings:										
S = 1.0H	+ 2.4 / - 7.4					+ 2.4 / - 7.1				
1.5H	+ 3.4 / - 5.3					+ 3.4 / - 5.4				
2.0H	+ 5.2 / - 7.9					+ 5.4 / - 7.9				

CIE Pub.117, 2569 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.3)

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Jasoan  
 Test Date:2023-04-18

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:220.9V I:0.0910A P:19.09W PF:0.9497 Freq:59.98Hz Lamp Flux:2568.7x1 lm		
NAME: T150 Pro-17W-830-30	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: φ160mm*H100mm	
MFR.: NEKO LIGHTING AG		

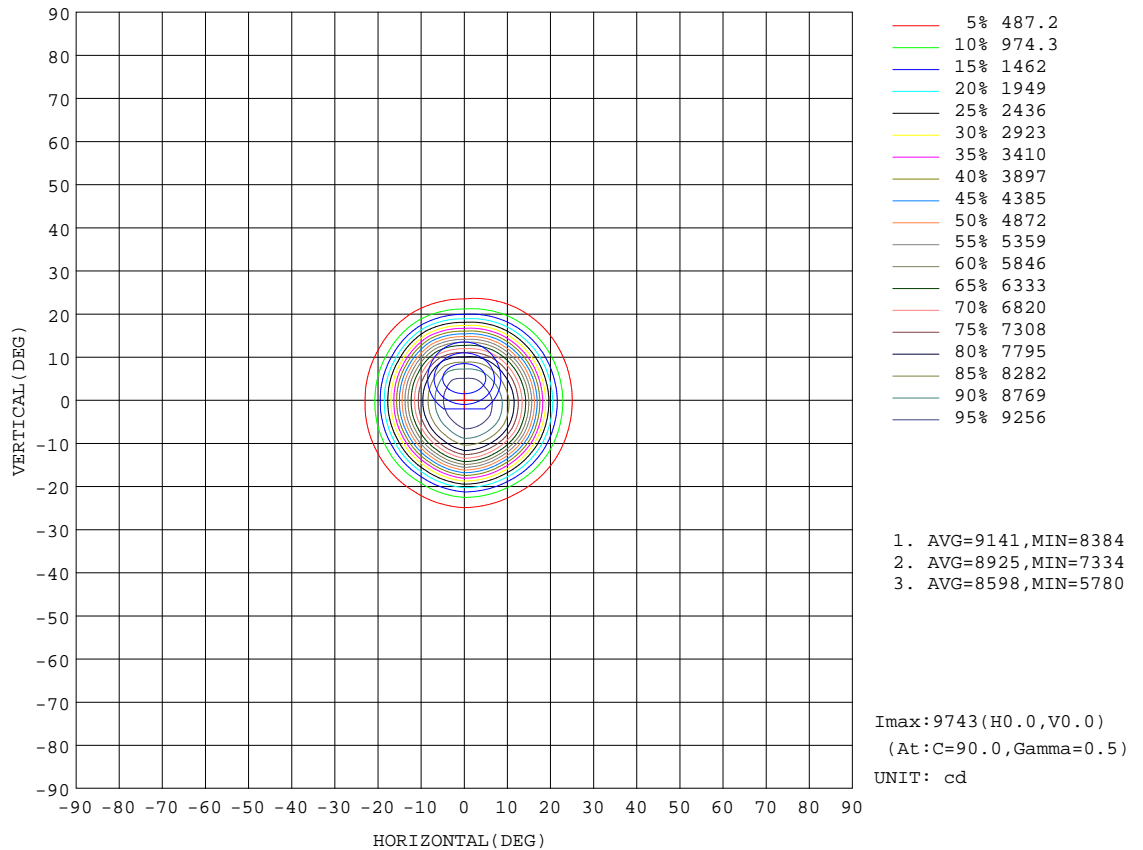
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	90	84	81	90	84	81	89	84	81	77
0.80	97	92	89	97	92	88	95	91	88	85
1.00	101	96	93	100	96	92	99	95	92	88
1.25	105	100	97	104	100	97	102	98	96	92
1.50	107	103	100	106	102	99	104	101	98	94
2.00	110	106	103	108	105	102	106	103	101	96
2.50	111	108	105	110	106	104	106	104	102	96
3.00	112	109	107	111	108	106	107	105	104	97
4.00	114	112	110	112	110	108	109	107	106	99
5.00	116	114	112	113	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:2023-04-18

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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:220.9V I:0.0910A P:19.09W PF:0.9497 Freq:59.98Hz Lamp Flux:2568.7x1 lm		
NAME: T150 Pro-17W-830-30	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: φ160mm*H100mm	
MFR.: NEKO LIGHTING AG		



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jasoan  
Test Date:2023-04-18

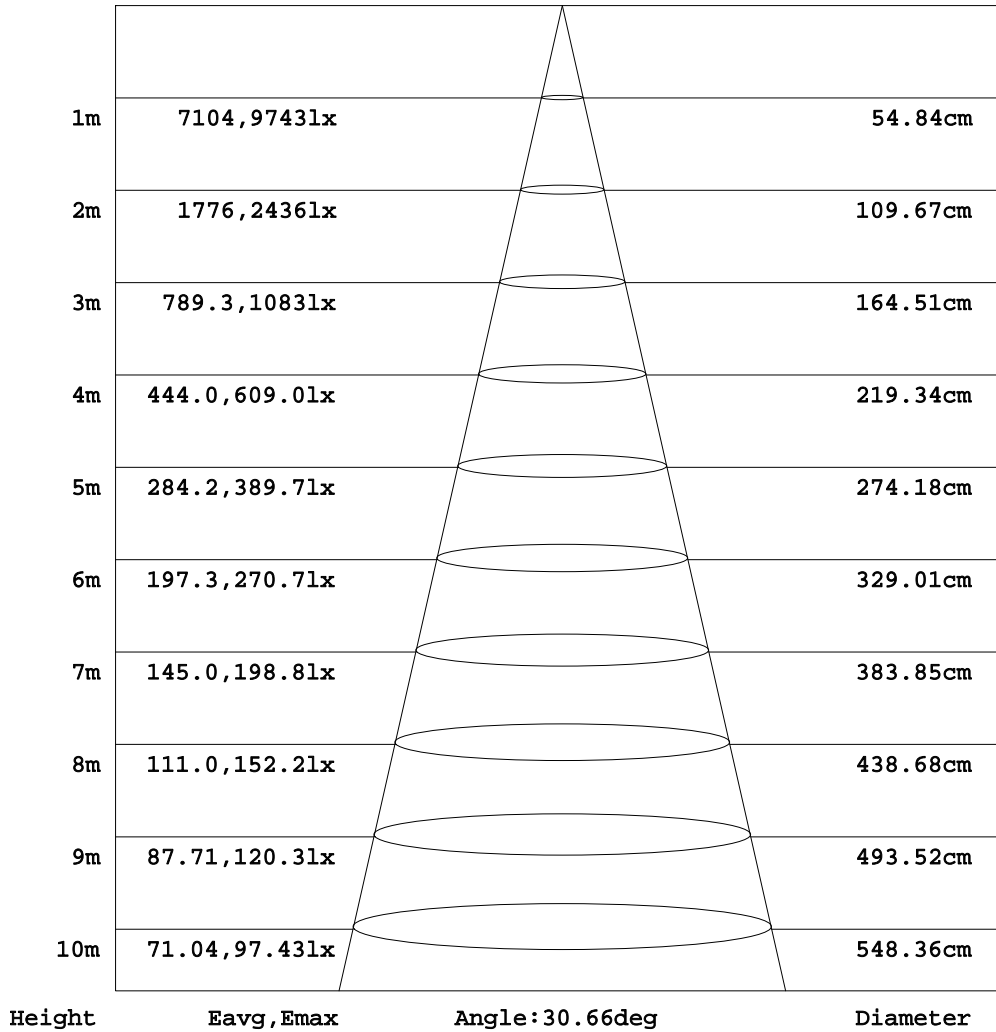
γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:58%  
Test Distance:8.967m [K=1.0000]  
Remarks:



**AAI Figure**

Test:U:220.9V I:0.0910A P:19.09W PF:0.9497 Freq:59.98Hz Lamp Flux:2568.7x1 lm		
NAME: T150 Pro-17W-830-30	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: φ160mm*H100mm	
MFR.: NEKO LIGHTING AG		

Flux out:1716 lm



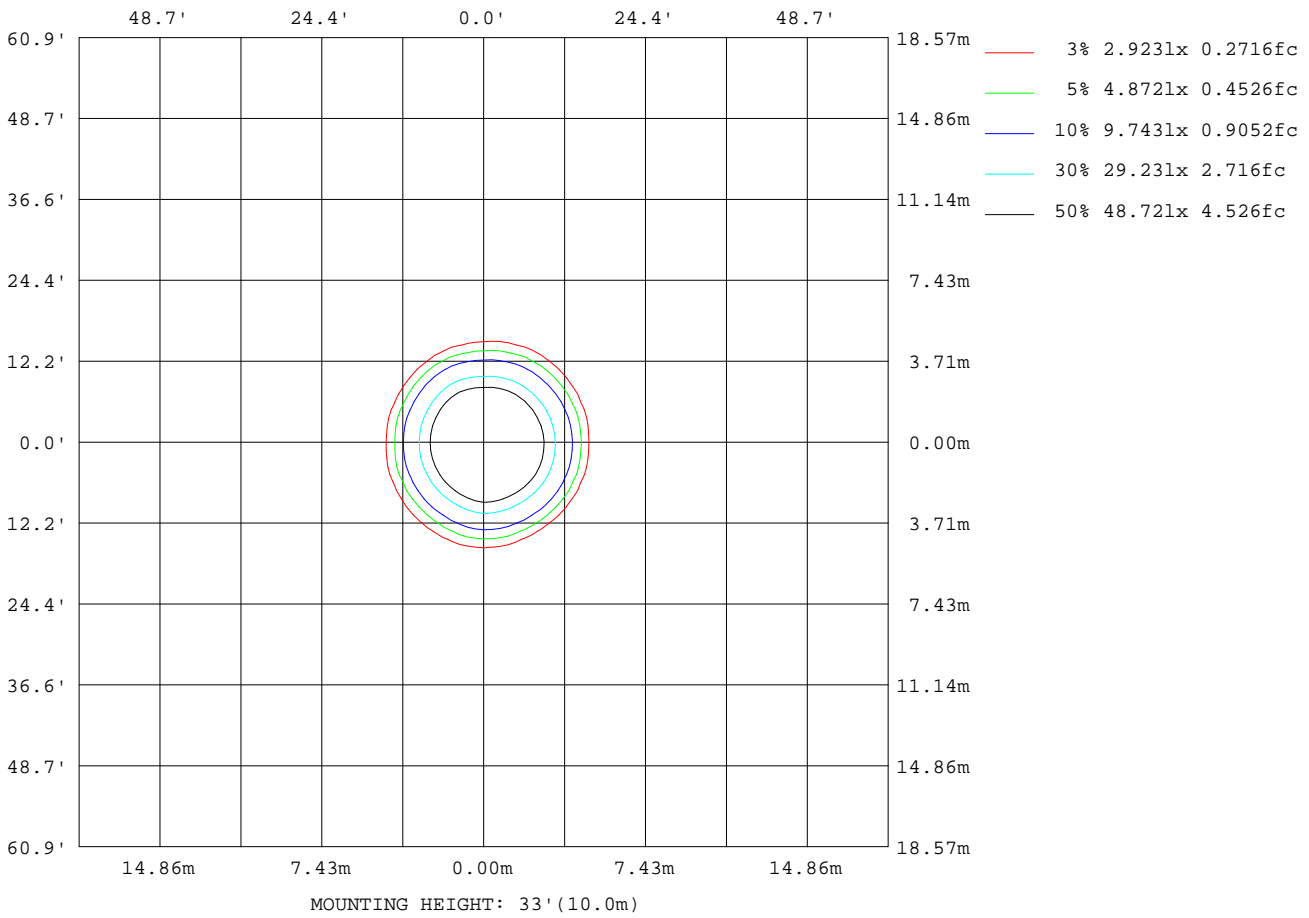
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jasoan  
Test Date:2023-04-18

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:220.9V I:0.0910A P:19.09W PF:0.9497 Freq:59.98Hz Lamp Flux:2568.7x1 lm		
NAME: T150 Pro-17W-830-30	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: φ160mm*H100mm	
MFR.: NEKO LIGHTING AG		



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Jasoan  
 Test Date:2023-04-18

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:220.9V I:0.0910A P:19.09W PF:0.9497 Freq:59.98Hz Lamp Flux:2568.7x1 lm		
NAME: T150 Pro-17W-830-30	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: φ160mm*H100mm	
MFR.: NEKO LIGHTING AG		

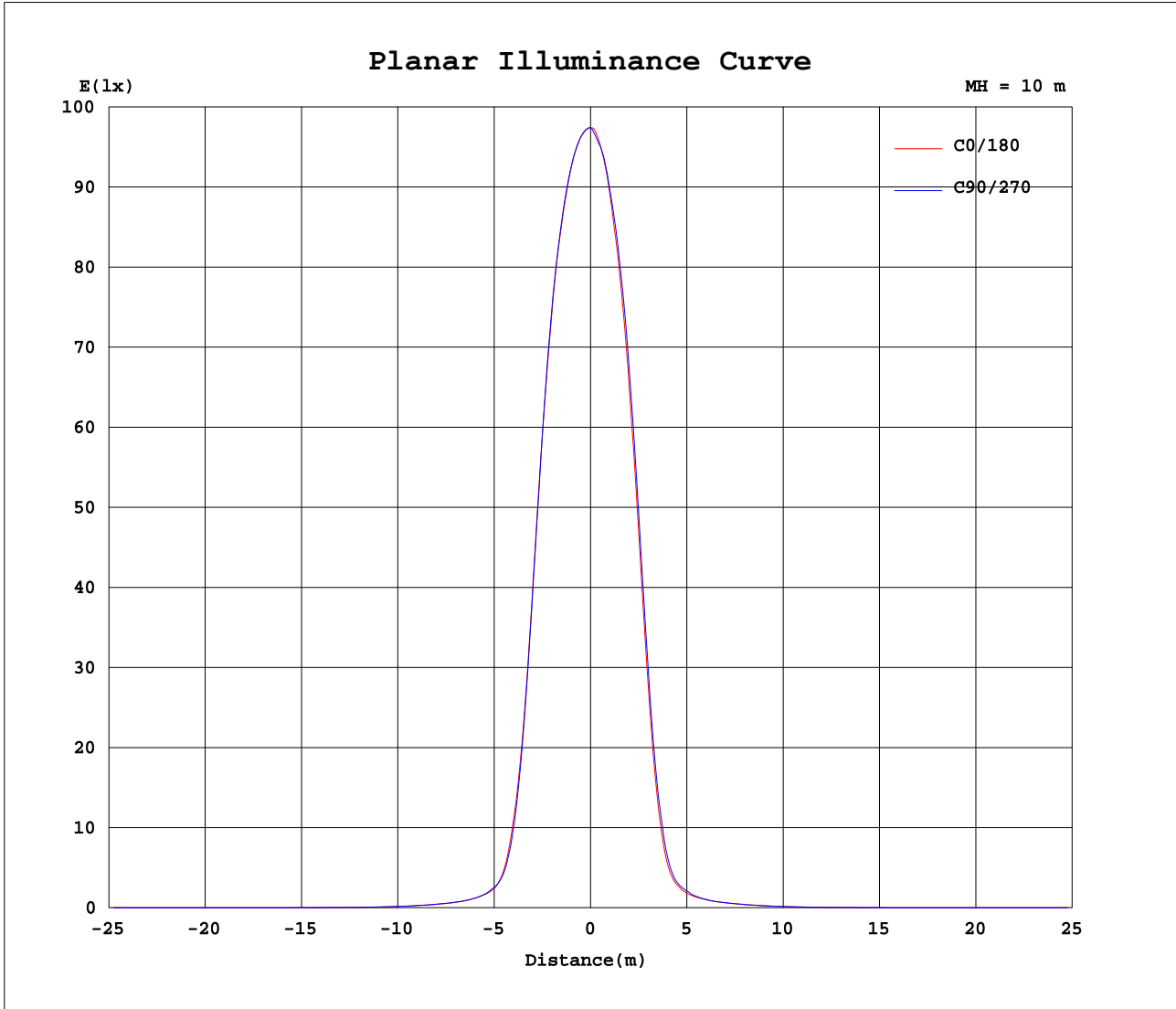
AvgL	cd/m2
L_0~180 (65) av	373
L_0~180 (75) av	117
L_0~180 (85) av	59
L_90~270 (65) av	399
L_90~270 (75) av	133
L_90~270 (85) av	56
L_45 (65) av	394
L_45 (75) av	128
L_45 (85) av	56

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jasoan  
Test Date:2023-04-18

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: 2023-04-18

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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:220.9V I:0.0910A P:19.09W PF:0.9497 Freq:59.98Hz Lamp Flux:2568.7x1 lm		
NAME: T150 Pro-17W-830-30	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: φ160mm*H100mm	
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	9738	9738	9738	9738	9738	9738	9738	9738	9738	9738	9738	9738							
5	9479	9498	9476	9486	9339	9254	9214	9236	9343	9259	9347	9385							
10	8407	8524	8456	8435	7968	7725	7611	7681	7947	7812	8068	8172							
15	5826	5982	5744	5781	5005	4557	4402	4458	4868	4664	5177	5515							
20	2216	2271	2102	2112	1579	1332	1230	1266	1468	1420	1744	1997							
25	493	482	440	476	402	358	329	325	354	365	434	467							
30	213	209	208	217	202	189	176	175	184	185	203	212							
35	125	124	125	130	125	121	114	112	118	118	122	126							
40	80.3	80.3	82.6	85.3	83.3	80.1	77.1	74.0	78.1	78.6	79.7	80.5							
45	47.7	47.6	49.3	52.2	51.4	49.5	48.4	47.0	48.2	48.0	48.7	49.3							
50	25.4	25.4	26.4	28.6	28.9	28.3	28.0	27.5	27.8	27.3	27.7	27.3							
55	12.6	12.3	12.9	14.3	14.6	14.3	14.3	14.1	14.2	14.1	14.3	13.9							
60	4.82	4.49	4.79	5.54	6.00	6.10	6.15	6.32	6.35	6.18	6.20	5.76							
65	2.80	2.55	2.75	3.18	3.51	3.54	3.54	3.67	3.67	3.60	3.62	3.40							
70	1.47	1.31	1.44	1.66	1.85	1.84	1.84	1.88	1.85	1.86	1.88	1.79							
75	0.61	0.51	0.60	0.67	0.78	0.70	0.60	0.61	0.61	0.71	0.75	0.75							
80	0.17	0.11	0.17	0.14	0.18	0.11	0.09	0.13	0.09	0.14	0.11	0.17							
85	0.12	0.09	0.11	0.09	0.11	0.09	0.09	0.10	0.09	0.10	0.09	0.10							
90	0.09	0.09	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09							

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