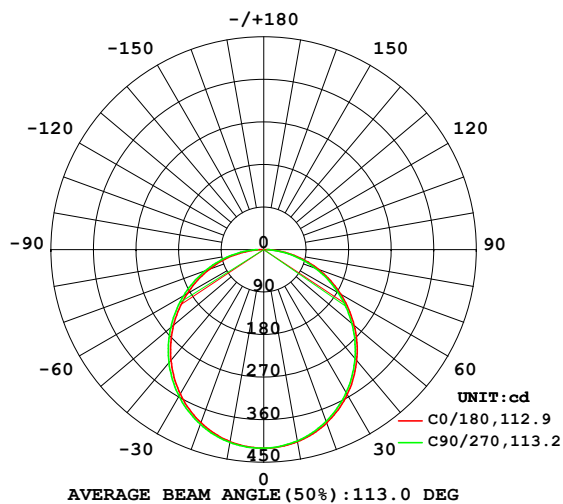


## LUMINAIRE PHOTOMETRIC TEST REPORT

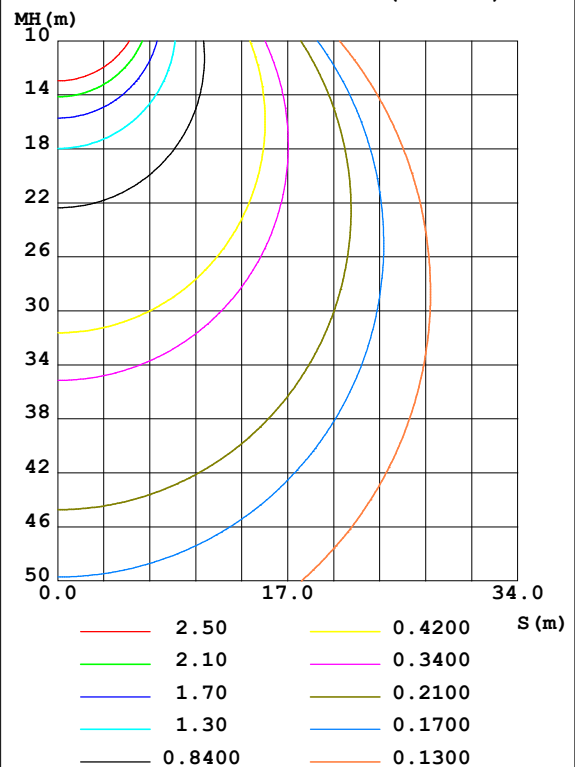
Test:U:240.0V I:0.0666A P:11.46W PF:0.7169 Lamp Flux:1228.54x1 lm		
NAME: NEON FLEX_T1607_TOP VIEW_10WM_4000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 107.17 lm/W			
NEON FLEX_T1607_TOP VIEW_10WM_4000K		Imax(cd)	420.4	S/MH(C0/180)	1.25
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.27
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	1228.5	$\eta$ UP,DN(C0-180)	0.0,49.1
NOMINAL FLUX(lm)	1228.54	CIE CLASS	DIRECT	$\eta$ UP,DN(C180-360)	0.0,50.9
LAMPS INSIDE	1	$\eta$ up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	230	$\eta$ down(%)	100.0	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:31 October 2024

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.888m [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	412.5	411.1	411.0	411.4	412.3	413.6	414.0	413.6	0- 10	39.74	39.74	3.23,3.23
20	390.0	387.2	386.6	387.8	389.6	392.2	393.1	392.0	10- 20	113.7	153.4	12.5,12.5
30	353.6	349.7	349.2	350.7	353.1	357.2	358.5	356.7	20- 30	172.0	325.4	26.5,26.5
40	306.0	301.3	300.5	302.4	305.4	310.5	312.2	309.9	30- 40	207.1	532.5	43.3,43.3
50	249.8	244.5	243.7	245.7	249.2	254.8	257.0	254.3	40- 50	215.1	747.6	60.9,60.9
60	188.1	182.4	181.4	183.7	187.3	193.7	196.0	193.0	50- 60	196.2	943.9	76.8,76.8
70	123.9	118.1	117.2	119.3	123.1	129.7	132.1	129.0	60- 70	154.6	1098	89.4,89.4
80	59.59	53.91	53.09	55.06	58.67	65.53	68.03	64.69	70- 80	96.94	1195	97.3,97.3
90	2.185	5.119	6.786	5.249	1.449	9.748	13.44	9.146	80- 90	33.12	1229	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): 640.81 lm

%lum = 52.2%

%lamp = 52.2%

Conical surface Flux(120deg): 943.86 lm

%lum = 76.8%

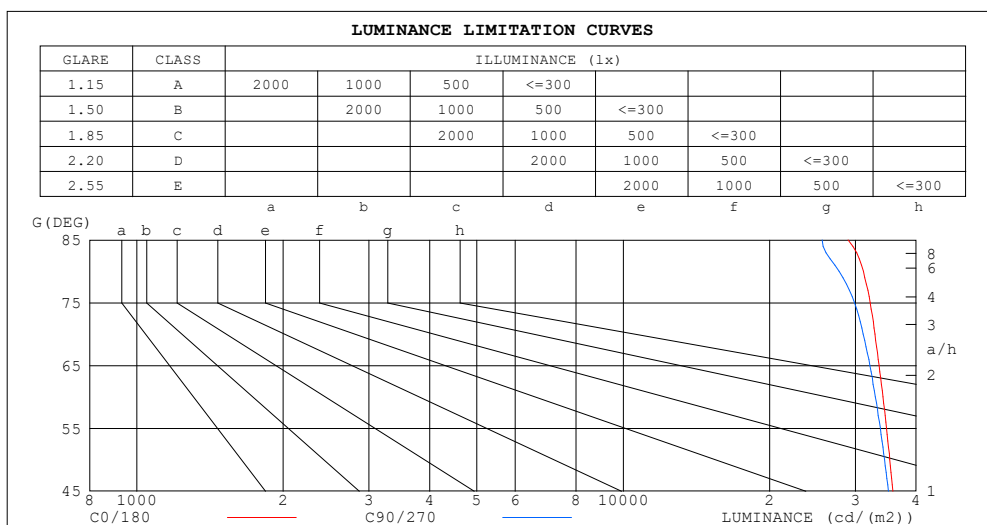
%lamp = 76.8%

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:JEFF  
 Test Date:31 October 2024

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
 Humidity:65.0%  
 Test Distance:7.888m [K=1.0000]  
 Remarks:

## LUMINANCE LIMITATION CURVES

Test:U:240.0V I:0.0666A P:11.46W PF:0.7169 Lamp Flux:1228.54x1 lm		
NAME: NEON FLEX_T1607_TOP VIEW_10WM_4000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	28985	25654
80	31183	27795
75	32186	29883
70	32917	31140
65	33570	32131
60	34187	32974
55	34766	33761
50	35317	34460
45	35832	35083

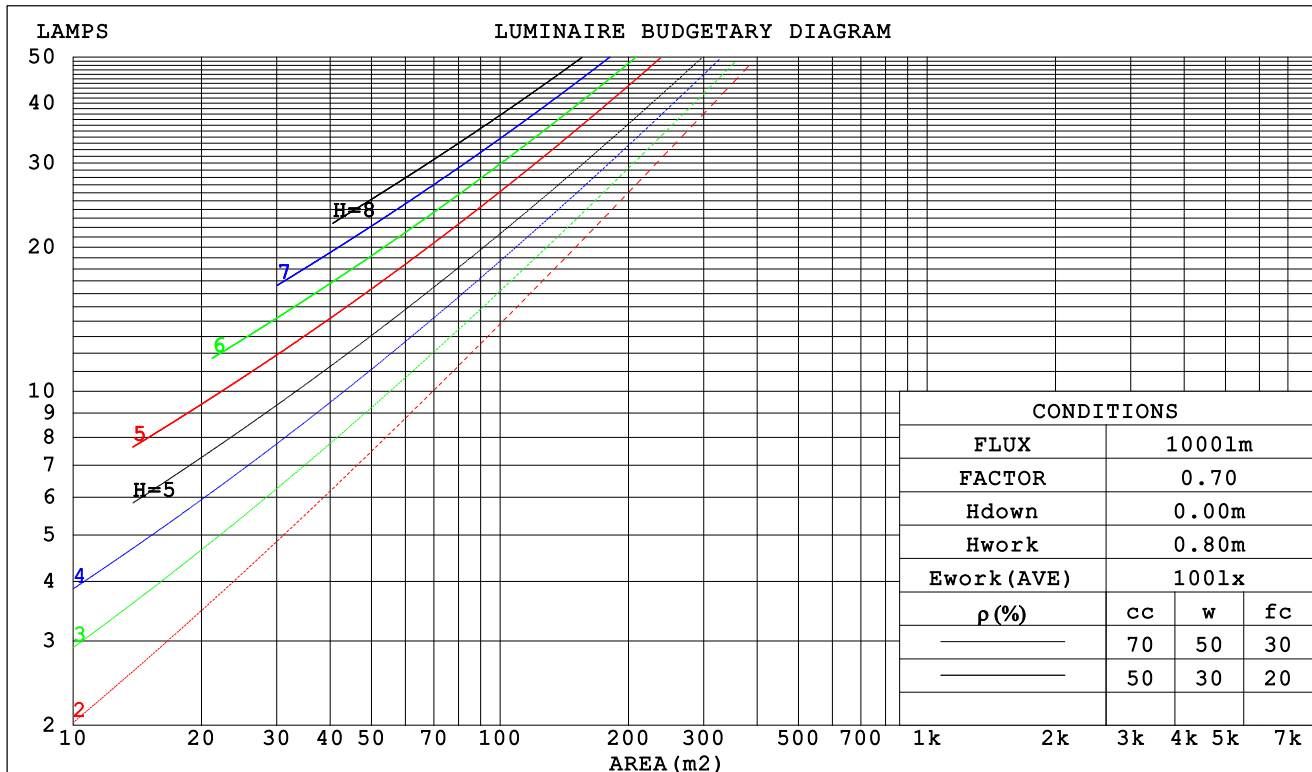
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:31 October 2024

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.888m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:240.0V I:0.0666A P:11.46W PF:0.7169 Lamp Flux:1228.54x1 lm		
NAME: NEON FLEX_T1607_TOP VIEW_10WM_4000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	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	1.00
1.0	1.03	.99	.95	1.01	.97	.93	.97	.93	.90	.93	.90	.87	.89	.87	.85	.83
2.0	.90	.82	.77	.88	.81	.76	.84	.79	.74	.81	.76	.72	.78	.74	.70	.68
3.0	.78	.70	.63	.77	.69	.63	.74	.67	.62	.71	.65	.61	.68	.64	.59	.57
4.0	.69	.60	.53	.68	.60	.53	.65	.58	.52	.63	.57	.52	.61	.55	.51	.49
5.0	.62	.53	.46	.61	.52	.46	.59	.51	.45	.57	.50	.45	.55	.49	.44	.42
6.0	.56	.47	.40	.55	.46	.40	.53	.45	.39	.51	.44	.39	.50	.43	.39	.37
7.0	.50	.42	.35	.50	.41	.35	.48	.40	.35	.47	.40	.35	.45	.39	.34	.32
8.0	.46	.37	.31	.45	.37	.31	.44	.36	.31	.43	.36	.31	.42	.35	.31	.29
9.0	.42	.34	.28	.42	.34	.28	.40	.33	.28	.39	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.26	.38	.31	.26	.37	.30	.25	.36	.30	.25	.36	.30	.25	.23



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:31 October 2024

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.888m [K=1.0000]  
Remarks:

**WEC AND CCEC**

Test:U:240.0V I:0.0666A P:11.46W PF:0.7169 Lamp Flux:1228.54x1 lm		
NAME: NEON FLEX_T1607_TOP VIEW_10WM_4000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	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	.323 .184 .058	.316 .180 .057	.303 .174 .055	.291 .168 .054	.279 .162 .052	
2.0	.300 .165 .050	.294 .162 .050	.282 .157 .049	.271 .152 .048	.261 .148 .047	
3.0	.276 .147 .044	.270 .145 .044	.260 .141 .043	.250 .137 .042	.241 .134 .041	
4.0	.254 .132 .039	.249 .130 .038	.239 .127 .038	.231 .124 .037	.223 .121 .037	
5.0	.234 .119 .034	.229 .118 .034	.221 .115 .034	.213 .113 .034	.206 .110 .033	
6.0	.216 .108 .031	.212 .107 .031	.205 .105 .031	.198 .103 .030	.192 .101 .030	
7.0	.201 .099 .028	.197 .098 .028	.191 .097 .028	.185 .095 .028	.179 .093 .027	
8.0	.187 .092 .026	.184 .091 .026	.178 .089 .025	.173 .088 .025	.168 .086 .025	
9.0	.175 .085 .024	.173 .084 .024	.167 .083 .023	.162 .081 .023	.158 .080 .023	
10.0	.165 .079 .022	.162 .078 .022	.158 .077 .022	.153 .076 .022	.149 .075 .021	

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	.190 .190 .190	.163 .163 .163	.111 .111 .111	.064 .064 .064	.020 .020 .020	
1.0	.181 .156 .133	.155 .134 .115	.106 .092 .079	.061 .053 .046	.020 .017 .015	
2.0	.173 .132 .097	.149 .114 .084	.102 .079 .058	.059 .046 .034	.019 .015 .011	
3.0	.166 .114 .073	.142 .099 .064	.097 .069 .045	.056 .040 .026	.018 .013 .009	
4.0	.158 .101 .058	.136 .087 .050	.093 .061 .035	.054 .036 .021	.017 .012 .007	
5.0	.150 .091 .047	.129 .078 .041	.089 .055 .029	.052 .032 .017	.017 .011 .006	
6.0	.143 .082 .039	.123 .071 .034	.085 .050 .024	.049 .029 .014	.016 .010 .005	
7.0	.136 .075 .033	.117 .065 .029	.081 .046 .020	.047 .027 .012	.015 .009 .004	
8.0	.130 .070 .028	.112 .060 .025	.077 .042 .018	.045 .025 .010	.015 .008 .003	
9.0	.123 .065 .025	.106 .056 .022	.074 .039 .016	.043 .023 .009	.014 .008 .003	
10.0	.118 .060 .022	.101 .052 .019	.070 .037 .014	.041 .022 .008	.013 .007 .003	

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:31 October 2024

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.888m [K=1.0000]  
Remarks:

**UGR(Unified Glare Rating) Table**

Test:U:240.0V I:0.0666A P:11.46W PF:0.7169 Lamp Flux:1228.54x1 lm										
NAME: NEON FLEX_T1607_TOP VIEW_10WM_4000K					TYPE:LED			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:1		
MFR.: DARKON					SUR.:			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	25.1	26.7	25.4	26.9	27.1	25.0	26.5	25.3	26.7	26.9
3H	26.8	28.2	27.1	28.4	28.7	26.6	28.0	26.9	28.2	28.5
4H	27.5	28.8	27.8	29.1	29.4	27.3	28.6	27.6	28.9	29.1
6H	28.1	29.3	28.4	29.6	29.9	27.8	29.0	28.1	29.3	29.6
8H	28.3	29.5	28.6	29.8	30.1	27.9	29.2	28.3	29.5	29.7
12H	28.4	29.6	28.8	29.9	30.2	28.0	29.2	28.4	29.5	29.8
4H 2H	25.7	27.1	26.0	27.3	27.6	25.6	27.0	25.9	27.2	27.5
3H	27.6	28.8	27.9	29.1	29.4	27.4	28.6	27.8	28.9	29.2
4H	28.4	29.5	28.8	29.8	30.2	28.2	29.3	28.6	29.6	30.0
6H	29.1	30.1	29.5	30.5	30.8	28.9	29.8	29.3	30.2	30.6
8H	29.4	30.3	29.8	30.7	31.1	29.1	30.0	29.5	30.4	30.8
12H	29.6	30.4	30.0	30.8	31.2	29.2	30.1	29.7	30.5	30.9
8H 4H	28.7	29.6	29.1	30.0	30.4	28.5	29.4	28.9	29.8	30.2
6H	29.6	30.3	30.0	30.7	31.2	29.3	30.1	29.8	30.5	30.9
8H	29.9	30.6	30.4	31.0	31.5	29.7	30.3	30.1	30.8	31.2
12H	30.2	30.8	30.7	31.3	31.7	29.9	30.5	30.4	30.9	31.4
12H 4H	28.7	29.6	29.2	29.9	30.4	28.6	29.4	29.0	29.8	30.2
6H	29.6	30.3	30.1	30.7	31.2	29.4	30.1	29.9	30.5	31.0
8H	30.1	30.6	30.5	31.1	31.6	29.8	30.4	30.2	30.8	31.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.1 / - 0.3					+ 0.1 / - 0.3				

CIE Pub.117 Corrected 1229 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.7)

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:31 October 2024

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.888m [K=1.0000]  
Remarks:

**UTILIZATION FACTORS TABLE**

Test:U:240.0V I:0.0666A P:11.46W PF:0.7169 Lamp Flux:1228.54x1 lm		
NAME: NEON FLEX_T1607_TOP VIEW_10WM_4000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

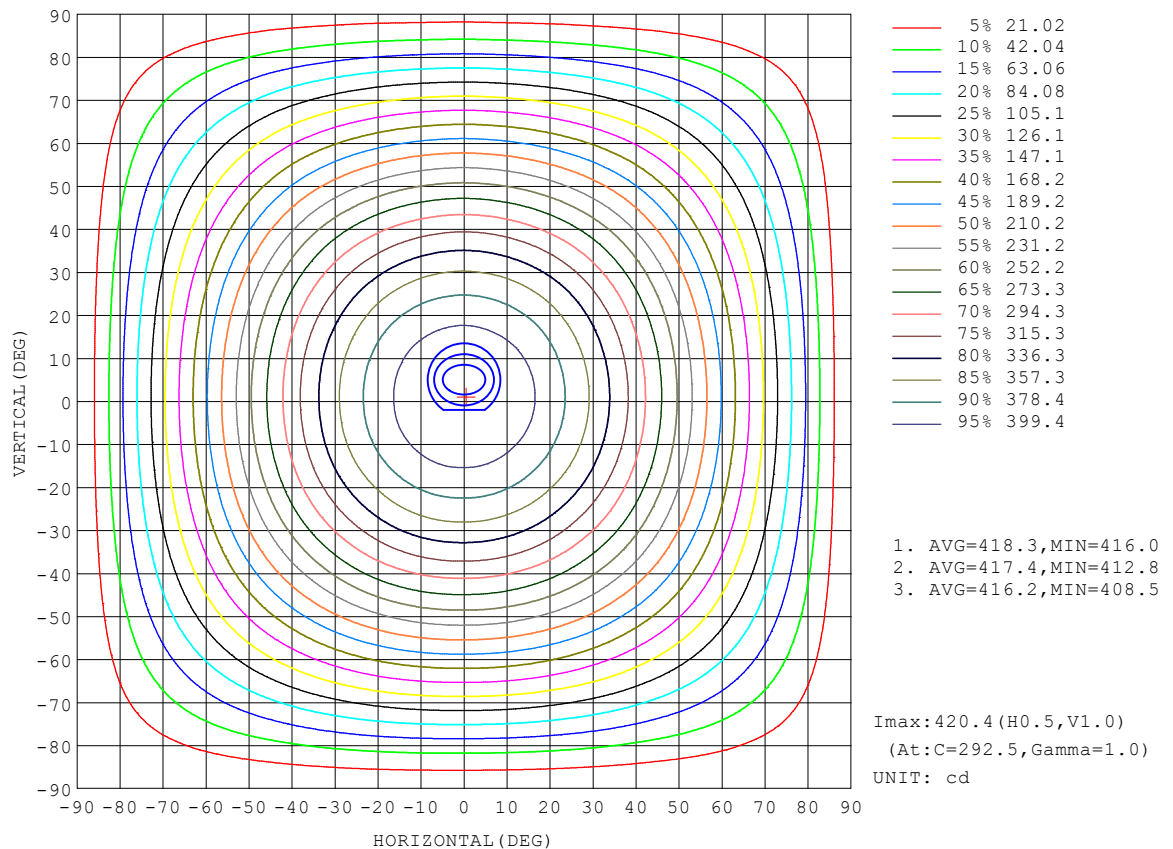
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	45	38	56	45	38	55	44	38	31
0.80	67	55	48	66	55	47	64	54	47	40
1.00	75	64	56	74	63	56	72	65	56	48
1.25	82	71	64	81	71	64	78	69	63	55
1.50	87	77	70	86	76	69	82	74	68	61
2.00	94	85	79	92	84	78	89	82	76	68
2.50	98	90	84	96	89	83	92	86	81	73
3.00	102	94	89	99	93	88	95	90	85	77
4.00	106	100	95	103	98	93	99	95	91	82
5.00	108	103	99	106	101	97	101	97	94	85
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:31 October 2024

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.888m [K=1.0000]  
Remarks:

### ISOCANDELA DIAGRAM

Test:U:240.0V I:0.0666A P:11.46W PF:0.7169 Lamp Flux:1228.54x1 lm		
NAME: NEON FLEX_T1607_TOP VIEW_10WM_4000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:



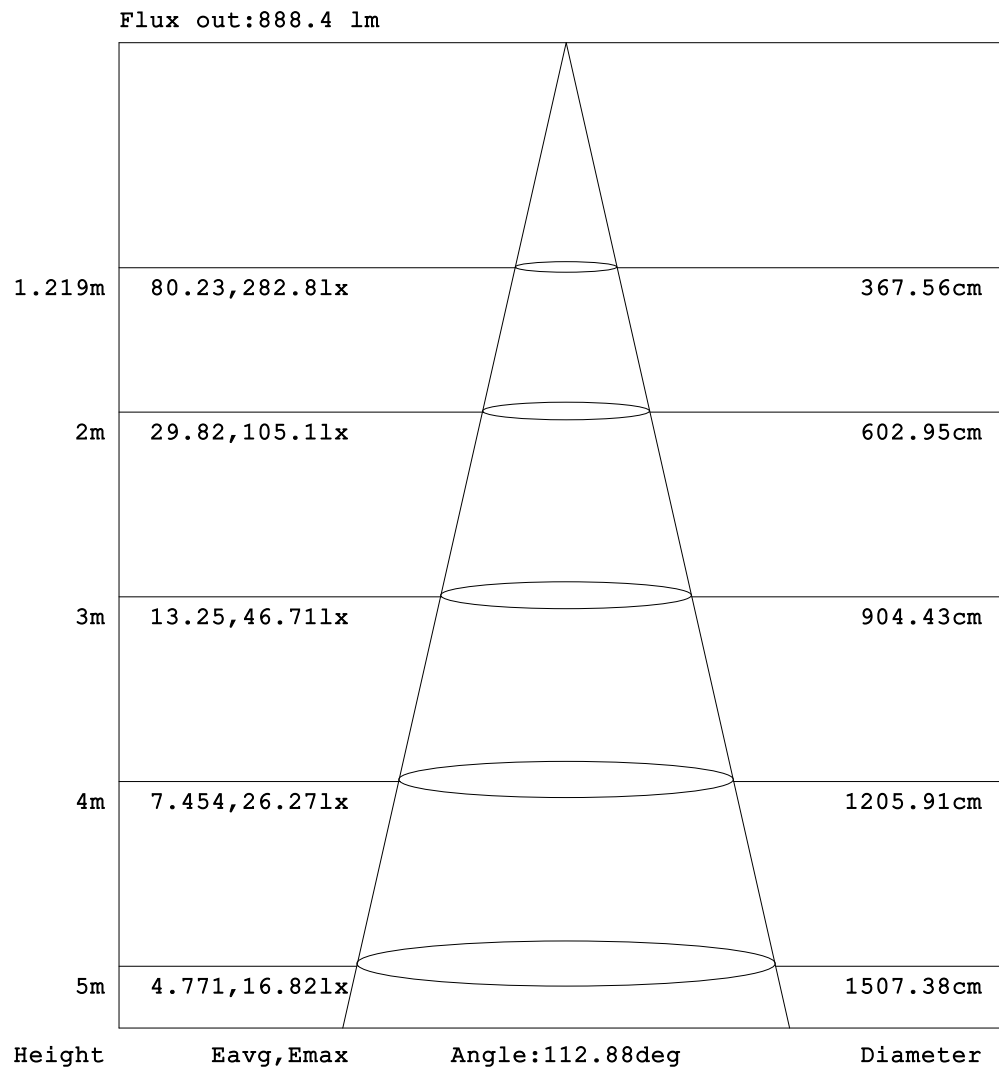
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:31 October 2024

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.888m [K=1.0000]  
Remarks:



**AAI Figure**

Test:U:240.0V I:0.0666A P:11.46W PF:0.7169 Lamp Flux:1228.54x1 lm		
NAME: NEON FLEX_T1607_TOP VIEW_10WM_4000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:



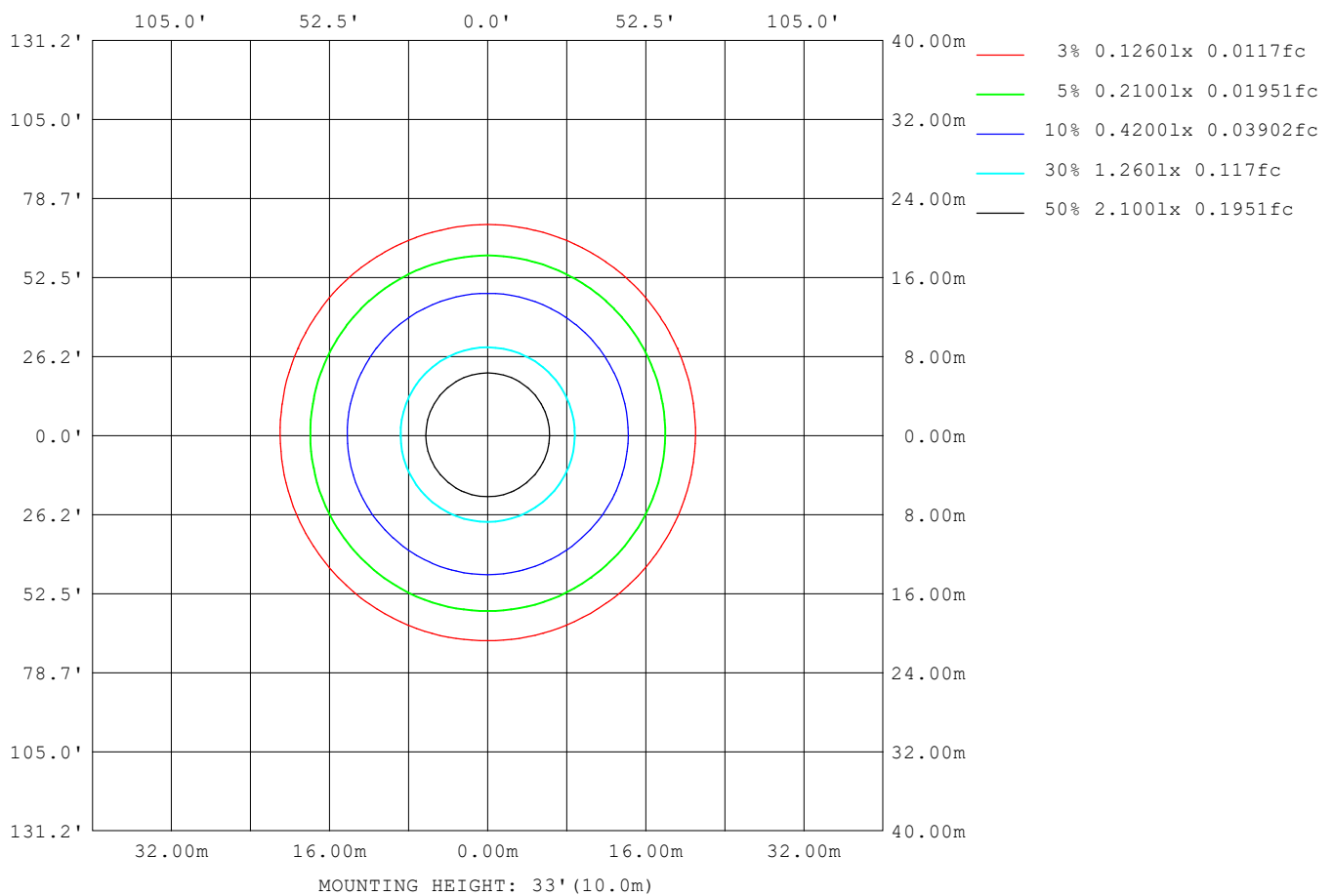
**Note:**The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:31 October 2024

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.888m [K=1.0000]  
Remarks:

**ISOLUX DIAGRAM**

Test:U:240.0V I:0.0666A P:11.46W PF:0.7169 Lamp Flux:1228.54x1 lm		
NAME: NEON FLEX_T1607_TOP VIEW_10WM_4000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:31 October 2024

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.888m [K=1.0000]  
Remarks:

### LED Avg.L Report

Test:U:240.0V I:0.0666A P:11.46W PF:0.7169 Lamp Flux:1228.54x1 lm		
NAME: NEON FLEX_T1607_TOP VIEW_10WM_4000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

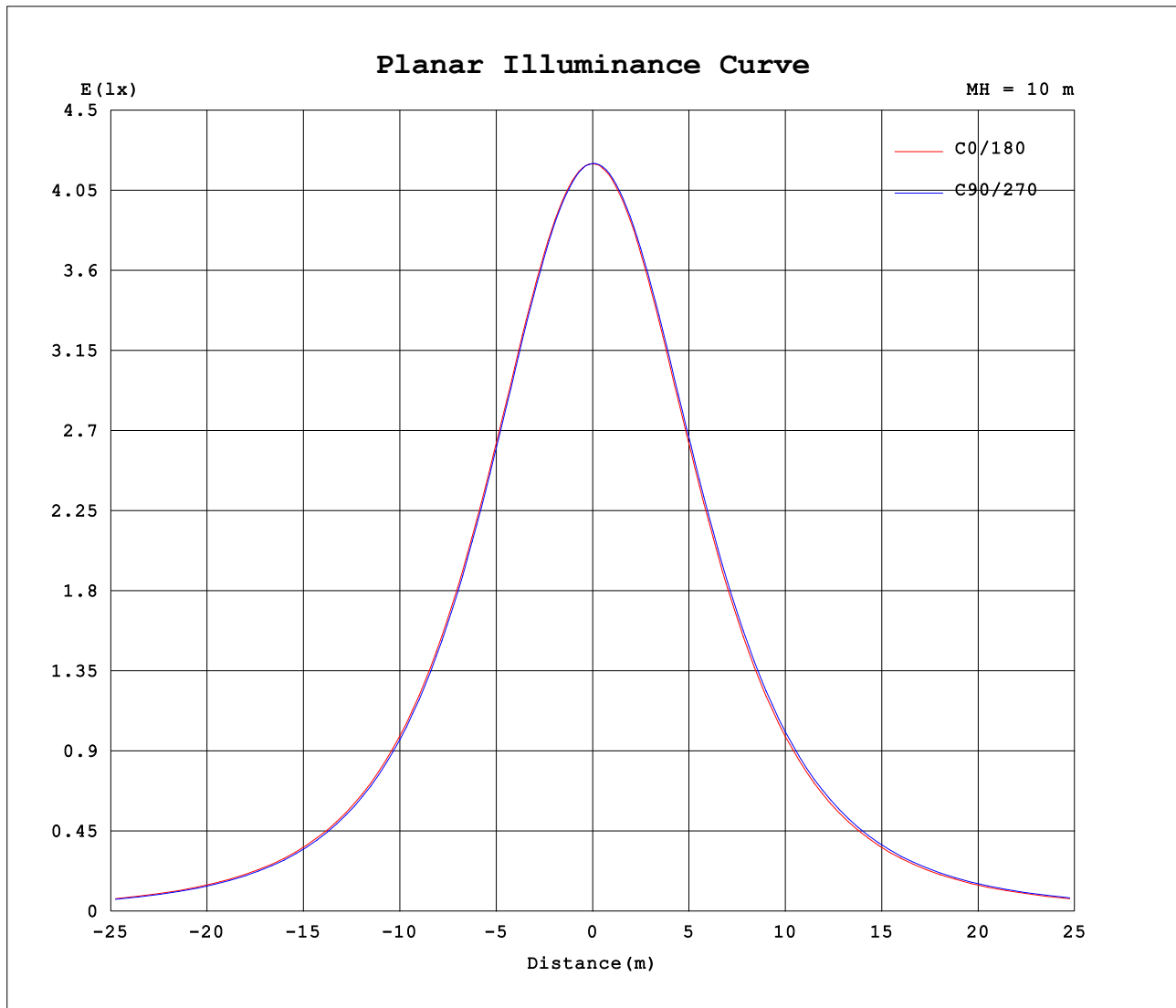
AvgL	cd/m2
L_0~180 (65) av	33495
L_0~180 (75) av	32051
L_0~180 (85) av	28495
L_90~270 (65) av	33723
L_90~270 (75) av	32512
L_90~270 (85) av	32238
L_45 (65) av	33608
L_45 (75) av	32271
L_45 (85) av	30137

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:31 October 2024

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.888m [K=1.0000]  
Remarks:

### Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: JEFF  
Test Date: 31 October 2024

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity: 65.0%  
Test Distance: 7.888m [K=1.0000]  
Remarks:

