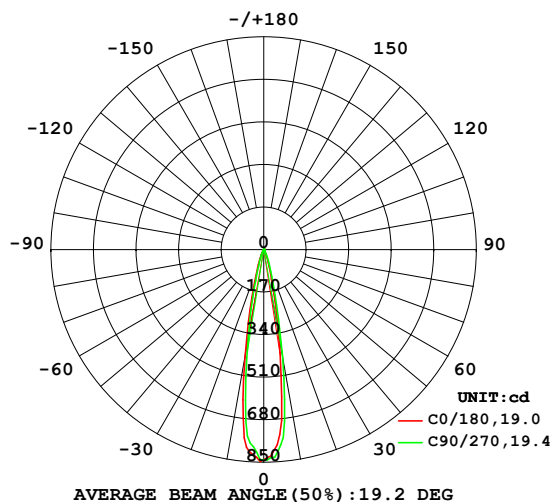


LUMINAIRE PHOTOMETRIC TEST REPORT

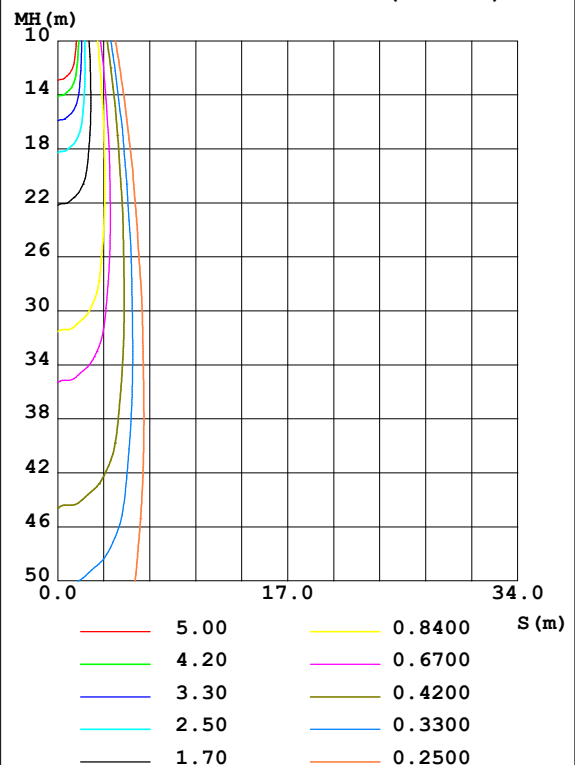
Test:U:240.1V I:0.0170A P:2.336W PF:0.5734 Lamp Flux:118.74lx1 lm		
NAME: DRAGON EYE_BLK_14 DEG_350mA_3000K 80CRI_WITH SNOOTLED		WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 50.83 lm/W			
MODEL	CREE XPG-3	I _{max} (cd)	848.5	S/MH(C0/180)	0.34
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	0.31
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	118.74	η UP,DN(C0-180)	0.0,52.6
NOMINAL FLUX(lm)	118.741	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,47.4
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	230	η down(%)	100.0	CIBSE SHR MAX	1.00

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:27 August 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:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	341.2	383.2	435.9	450.4	432.0	392.4	354.6	348.3	0- 10	60.04	60.04	50.6,50.6
20	51.03	59.20	69.07	69.81	64.45	53.03	49.36	45.87	10- 20	43.03	103.1	86.8,86.8
30	5.177	6.776	10.40	8.841	6.153	4.388	4.738	4.565	20- 30	12.47	115.5	97.3,97.3
40	2.148	2.395	2.234	2.314	2.048	1.975	1.990	1.990	30- 40	2.027	117.6	99,99
50	0.4095	0.6857	0.5625	0.8735	0.4599	0.4349	0.3228	0.3265	40- 50	0.9852	118.5	99.8,99.8
60	0.1030	0.0955	0.0957	0.0957	0.0626	0.0587	0.0551	0.0552	50- 60	0.1595	118.7	100,100
70	0.0038	0.0074	0.0111	0.0147	0	0	0	0	60- 70	0.0349	118.7	100,100
80	0	0	0	0	0	0	0	0	70- 80	0.0002	118.7	100,100
90	0	0	0	0	0	0	0	0	80- 90	0	118.7	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): 118.2 lm

%lum = 99.5%

%lamp = 99.5%

Conical surface Flux(120deg): 118.71 lm

%lum = 100.0%

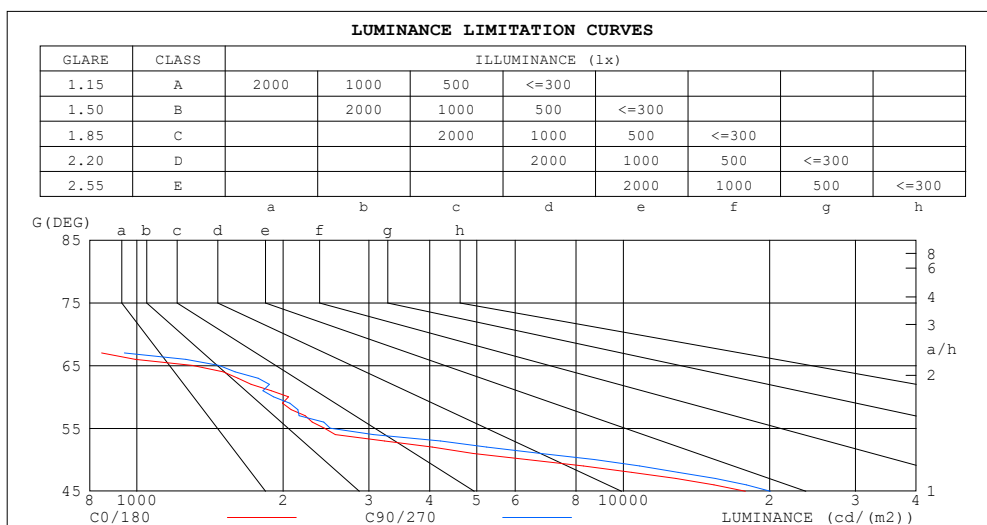
%lamp = 100.0%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:JEFF
 Test Date:27 August 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:

LUMINANCE LIMITATION CURVES

Test:U:240.1V I:0.0170A P:2.336W PF:0.5734 Lamp Flux:118.741x1 lm		
NAME: DRAGON EYE_BLK_14 DEG_350mA_3000K 80CRI_WITH SNOUTLED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	0	0
80	0	0
75	0	0
70	110	323
65	1301	1476
60	2052	1909
55	2429	2497
50	6342	8731
45	17832	20059

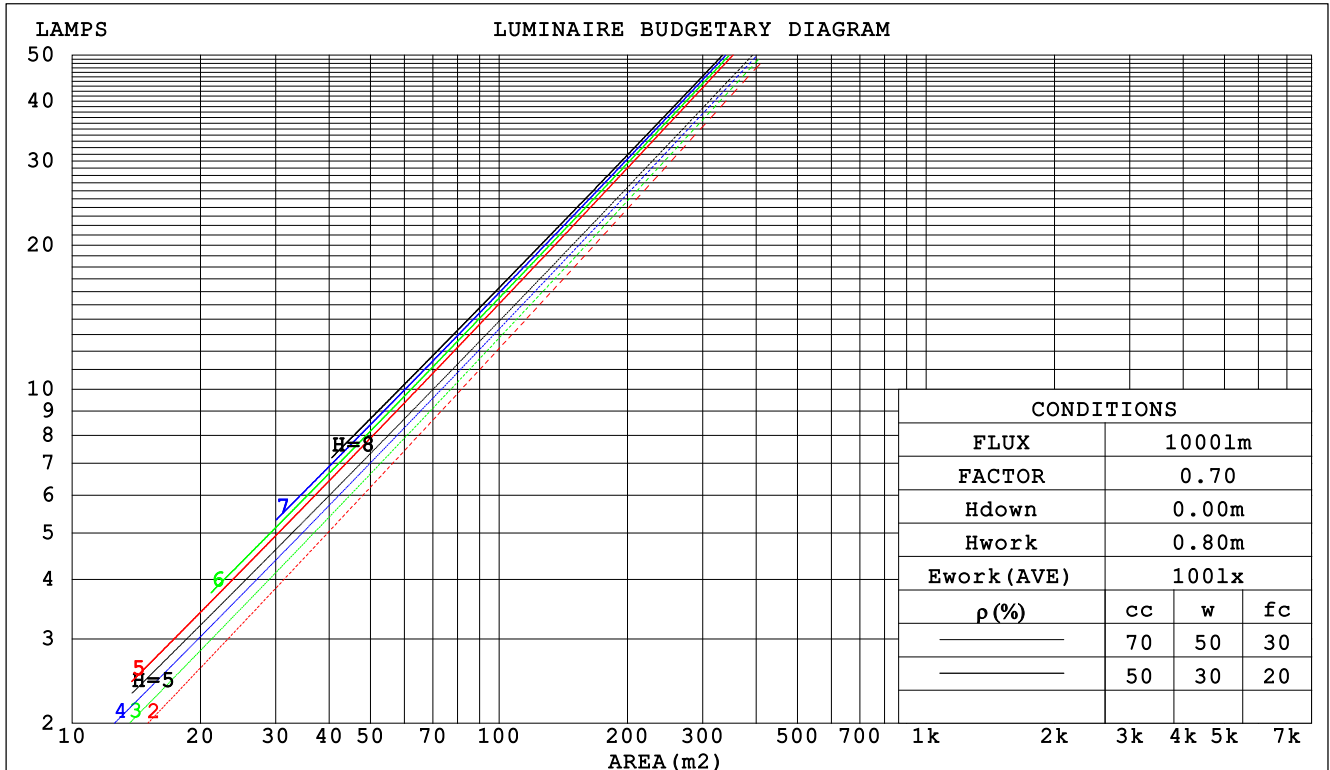
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:27 August 2024

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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:240.1V I:0.0170A P:2.336W PF:0.5734 Lamp Flux:118.74lx1 lm		
NAME: DRAGON EYE_BLK_14 DEG_350mA_3000K 80CRI_WITH SNOUTLED		WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	Coefficients of Utilization(CU)															
RCR:Room Cavity Ratio																
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	1.14	1.12	1.10	1.11	1.10	1.09	1.07	1.06	1.05	1.04	1.03	1.02	1.00	.00	.99	.98
2.0	1.09	1.06	1.04	1.07	1.05	1.03	1.04	1.02	1.01	1.01	.00	.99	.99	.98	.97	.95
3.0	1.05	1.02	.99	1.04	1.01	.98	1.01	.99	.97	.99	.97	.96	.97	.95	.94	.93
4.0	1.02	.98	.95	1.01	.97	.95	.99	.96	.94	.97	.95	.93	.95	.93	.92	.91
5.0	.99	.95	.92	.98	.94	.92	.96	.93	.91	.95	.92	.91	.93	.91	.90	.89
6.0	.96	.92	.90	.95	.92	.89	.94	.91	.89	.93	.90	.88	.92	.90	.88	.87
7.0	.94	.90	.87	.93	.90	.87	.92	.89	.87	.91	.88	.86	.90	.88	.86	.85
8.0	.91	.88	.85	.91	.88	.85	.90	.87	.85	.89	.87	.85	.88	.86	.84	.83
9.0	.89	.86	.84	.89	.86	.83	.88	.85	.83	.88	.85	.83	.87	.84	.83	.82
10.0	.88	.84	.82	.87	.84	.82	.87	.84	.82	.86	.83	.81	.85	.83	.81	.80



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:27 August 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:

WEC AND CCEC

Test:U:240.1V I:0.0170A P:2.336W PF:0.5734 Lamp Flux:118.741x1 lm		
NAME: DRAGON EYE_BLK_14 DEG_350mA_3000K 80CRI_WITH SNOOTLED	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	.124	.071	.022	.118	.067	.021	.106	.061	.019	.094	.054	.017	.084	.049	.016		
2.0	.114	.063	.019	.109	.060	.018	.099	.055	.017	.089	.050	.016	.081	.046	.014		
3.0	.105	.056	.017	.101	.054	.016	.093	.050	.015	.085	.047	.014	.078	.043	.013		
4.0	.098	.051	.015	.094	.049	.015	.087	.046	.014	.081	.043	.013	.075	.041	.012		
5.0	.092	.047	.014	.089	.046	.013	.083	.043	.013	.077	.041	.012	.072	.039	.012		
6.0	.086	.043	.012	.084	.042	.012	.079	.040	.012	.074	.038	.011	.070	.037	.011		
7.0	.082	.040	.011	.079	.040	.011	.075	.038	.011	.071	.036	.011	.067	.035	.010		
8.0	.077	.038	.011	.075	.037	.010	.072	.036	.010	.068	.034	.010	.065	.033	.010		
9.0	.074	.036	.010	.072	.035	.010	.069	.034	.010	.066	.033	.009	.063	.032	.009		
10.0	.070	.034	.009	.069	.033	.009	.066	.032	.009	.063	.031	.009	.061	.030	.009		

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	.167	.158	.149	.143	.135	.128	.098	.093	.089	.056	.054	.052	.018	.017	.017	
2.0	.149	.133	.120	.127	.114	.103	.087	.079	.072	.050	.046	.042	.016	.015	.014	
3.0	.133	.113	.098	.114	.098	.085	.078	.068	.059	.045	.040	.035	.015	.013	.011	
4.0	.120	.098	.081	.103	.084	.070	.071	.059	.049	.041	.034	.029	.013	.011	.010	
5.0	.109	.085	.068	.093	.074	.059	.064	.051	.042	.037	.030	.025	.012	.010	.008	
6.0	.099	.075	.057	.085	.065	.050	.059	.045	.035	.034	.027	.021	.011	.009	.007	
7.0	.091	.066	.049	.078	.058	.043	.054	.040	.030	.031	.024	.018	.010	.008	.006	
8.0	.084	.060	.043	.073	.052	.037	.050	.036	.026	.029	.021	.016	.009	.007	.005	
9.0	.078	.054	.037	.068	.047	.032	.047	.033	.023	.027	.019	.014	.009	.006	.005	
10.0	.073	.049	.033	.063	.042	.028	.044	.030	.020	.026	.018	.012	.008	.006	.004	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:27 August 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:240.1V I:0.0170A P:2.336W PF:0.5734 Lamp Flux:118.74lx1 lm										
NAME: DRAGON EYE_BLK_14 DEG_350mA_3000K 80CRI_WITH SNOUTLED								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	9.3	9.8	9.5	10.0	10.1	9.8	10.4	10.0	10.5	10.7
3H	9.1	9.7	9.4	9.8	10.0	9.7	10.2	9.9	10.4	10.6
4H	9.1	9.6	9.3	9.8	10.0	9.6	10.1	9.9	10.3	10.5
6H	9.0	9.5	9.2	9.7	9.9	9.5	10.0	9.8	10.2	10.5
8H	8.9	9.4	9.2	9.6	9.9	9.5	9.9	9.8	10.2	10.4
12H	8.9	9.3	9.2	9.6	9.8	9.4	9.9	9.7	10.1	10.4
4H 2H	9.1	9.6	9.3	9.8	10.0	9.6	10.1	9.9	10.3	10.5
3H	8.9	9.4	9.2	9.6	9.9	9.4	9.9	9.8	10.2	10.4
4H	8.8	9.2	9.1	9.5	9.8	9.4	9.8	9.7	10.1	10.4
6H	8.7	9.1	9.1	9.4	9.7	9.2	9.6	9.6	9.9	10.3
8H	8.6	9.0	9.0	9.3	9.7	9.2	9.5	9.6	9.9	10.2
12H	8.6	8.9	9.0	9.3	9.7	9.1	9.5	9.5	9.8	10.2
8H 4H	8.6	9.0	9.0	9.3	9.7	9.2	9.5	9.6	9.9	10.2
6H	8.5	8.8	8.9	9.2	9.6	9.1	9.4	9.5	9.8	10.2
8H	8.5	8.7	8.9	9.1	9.6	9.0	9.3	9.5	9.7	10.1
12H	8.4	8.6	8.9	9.1	9.5	8.9	9.2	9.4	9.6	10.1
12H 4H	8.6	8.9	9.0	9.3	9.7	9.1	9.5	9.5	9.8	10.2
6H	8.5	8.7	8.9	9.1	9.6	9.0	9.3	9.5	9.7	10.1
8H	8.4	8.6	8.9	9.1	9.5	8.9	9.2	9.4	9.6	10.1
Variations with the observer position at spacings:										
S = 1.0H	+ 2.5 / -13.1					+ 2.5 / -13.6				
1.5H	+ 3.4 / -12.1					+ 3.3 / -12.3				
2.0H	+ 6.6 / -11.4					+ 6.6 / -12.0				

CIE Pub.117 Corrected 118.7 lm Total Lamp Luminous Flux. (8log(F/F0) = -7.4)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:27 August 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:240.1V I:0.0170A P:2.336W PF:0.5734 Lamp Flux:118.74lx1 lm		
NAME: DRAGON EYE_BLK_14 DEG_350mA_3000K 80CRI_WITH SNOOTLED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

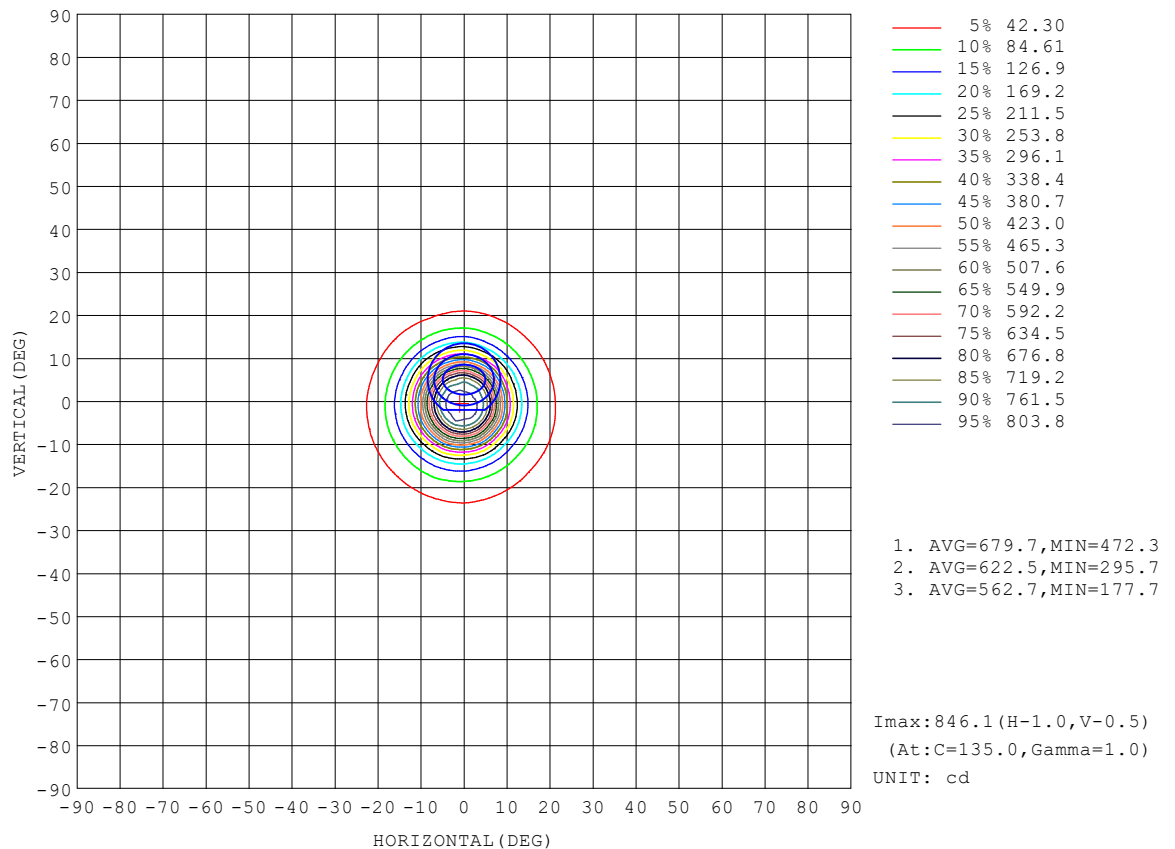
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	91	85	82	90	85	82	90	85	82	78
0.80	98	93	89	97	92	89	96	92	89	86
1.00	102	97	93	101	96	93	99	96	93	89
1.25	105	101	98	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	106	104	98
4.00	115	112	110	113	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					SHR NOM = 1.25		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: JEFF
Test Date: 27 August 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:

ISOCANDELA DIAGRAM

Test:U:240.1V I:0.0170A P:2.336W PF:0.5734 Lamp Flux:118.74lx1 lm		
NAME: DRAGON EYE_BLK_14 DEG_350mA_3000K 80CRI_WITH SNOOTLED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

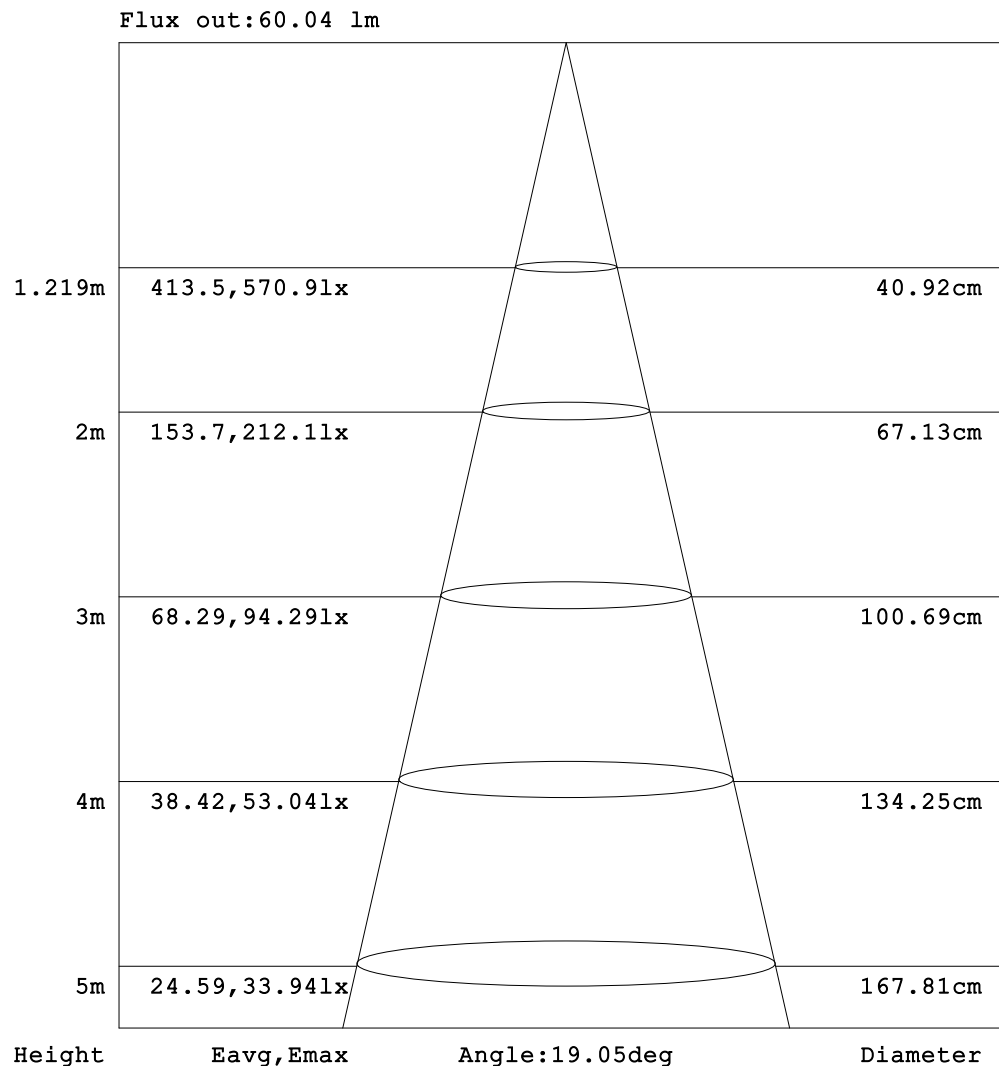


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:27 August 2024

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:240.1V I:0.0170A P:2.336W PF:0.5734 Lamp Flux:118.74lx1 lm		
NAME: DRAGON EYE_BLK_14 DEG_350mA_3000K 80CRI_WITH SNOOTLED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:



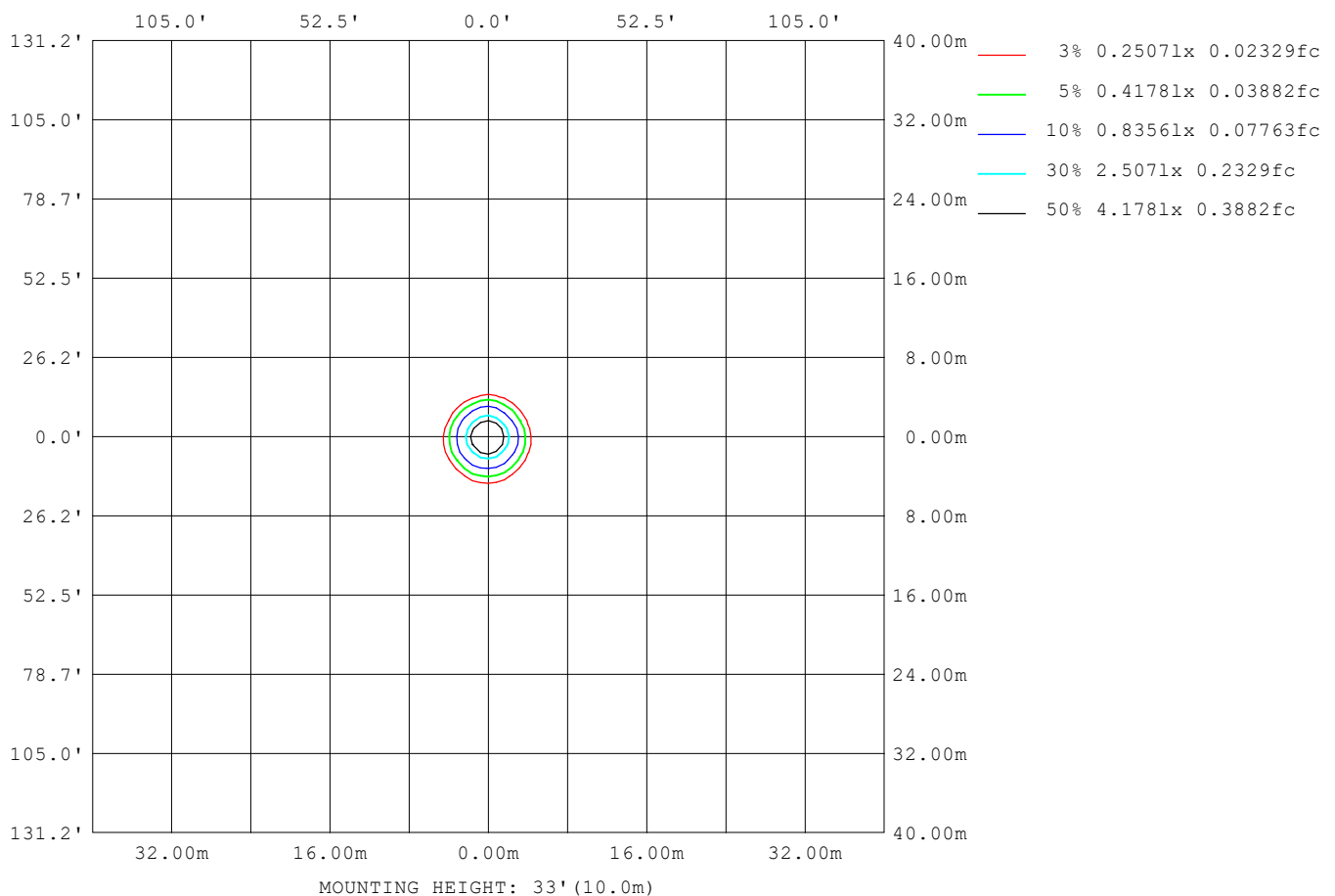
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:27 August 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:240.1V I:0.0170A P:2.336W PF:0.5734 Lamp Flux:118.741x1 lm		
NAME: DRAGON EYE_BLK_14 DEG_350mA_3000K 80CRI_WITH SNOOTLED	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:27 August 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:240.1V I:0.0170A P:2.336W PF:0.5734 Lamp Flux:118.741x1 lm		
NAME: DRAGON EYE_BLK_14 DEG_350mA_3000K 80CRI_WITH SNOOTLED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

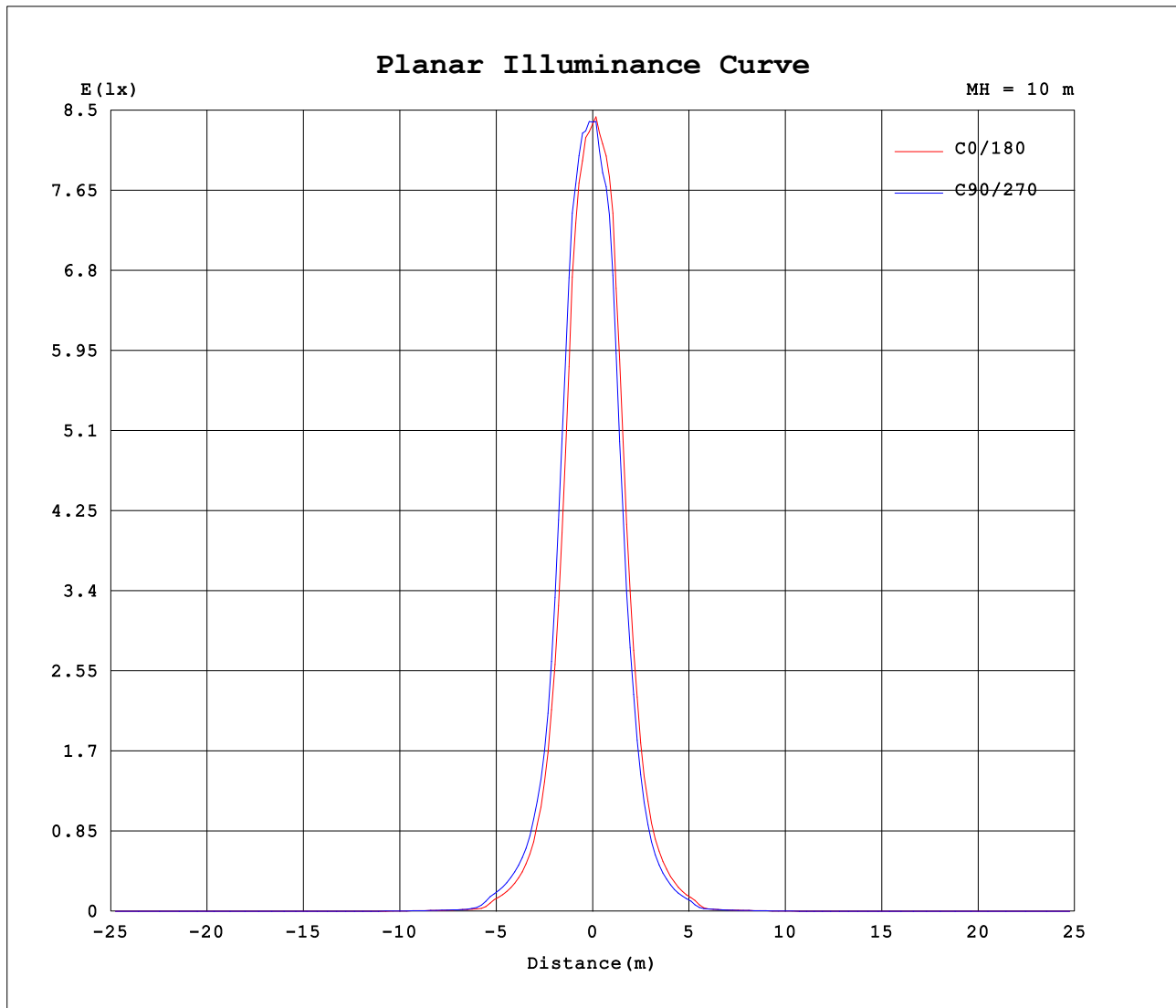
AvgL	cd/m2
L_0~180 (65) av	783
L_0~180 (75) av	0
L_0~180 (85) av	0
L_90~270 (65) av	783
L_90~270 (75) av	0
L_90~270 (85) av	0
L_45 (65) av	740
L_45 (75) av	0
L_45 (85) av	0

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:27 August 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: 27 August 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:

