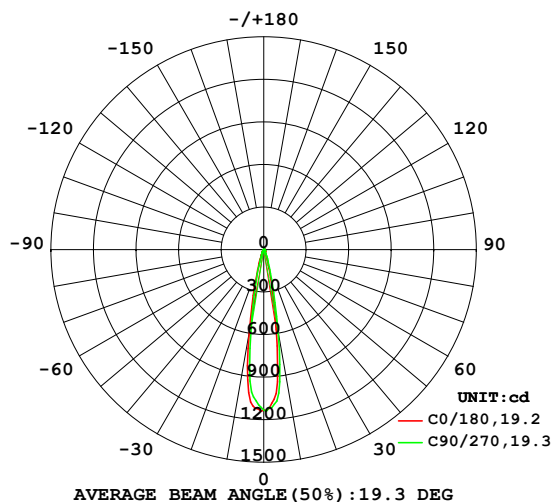


LUMINAIRE PHOTOMETRIC TEST REPORT

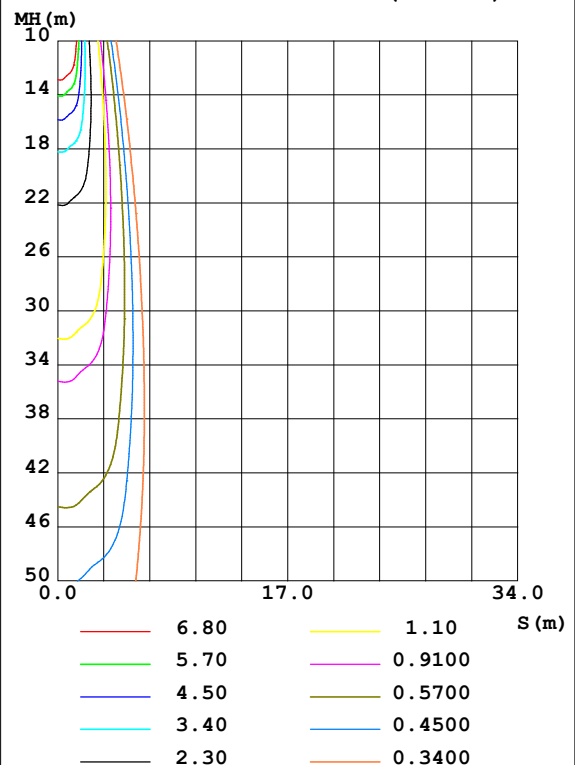
Test:U:240.1V I:0.0191A P:3.027W PF:0.6606 Lamp Flux:182.709x1 lm		
NAME: DRAGON EYE_BLK_14 DEG_500mA_3000K 80CRI_NO SNOOT:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 60.35 lm/W			
MODEL	CREE XPG-3	I _{max} (cd)	1155	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)	182.71	η UP,DN(C0-180)	0.0,52.5
NOMINAL FLUX(lm)	182.709	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,47.5
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	469.5	528.8	593.8	623.7	594.1	539.9	483.2	478.2	0- 10	81.96	81.96	44.9,44.9
20	70.02	81.36	94.00	96.06	88.37	74.05	68.54	63.67	10- 20	58.96	140.9	77.1,77.1
30	20.62	23.73	28.42	26.44	24.43	21.88	20.80	20.08	20- 30	19.51	160.4	87.8,87.8
40	10.19	11.03	11.69	12.00	10.90	9.001	9.025	9.151	30- 40	9.679	170.1	93.1,93.1
50	4.436	4.855	4.647	4.991	4.309	4.265	4.235	4.353	40- 50	5.230	175.3	96,96
60	3.135	3.355	3.289	3.338	3.141	3.090	3.071	3.081	50- 60	3.392	178.7	97.8,97.8
70	1.949	2.143	2.143	2.172	1.951	1.858	1.808	1.836	60- 70	2.594	181.3	99.2,99.2
80	0.4166	0.5943	0.5829	0.6148	0.4909	0.4186	0.3409	0.3403	70- 80	1.271	182.6	99.9,99.9
90	0	0	0	0	0	0	0	0	80- 90	0.1120	182.7	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): 173.25 lm

%lum = 94.8%

%lamp = 94.8%

Conical surface Flux(120deg): 178.73 lm

%lum = 97.8%

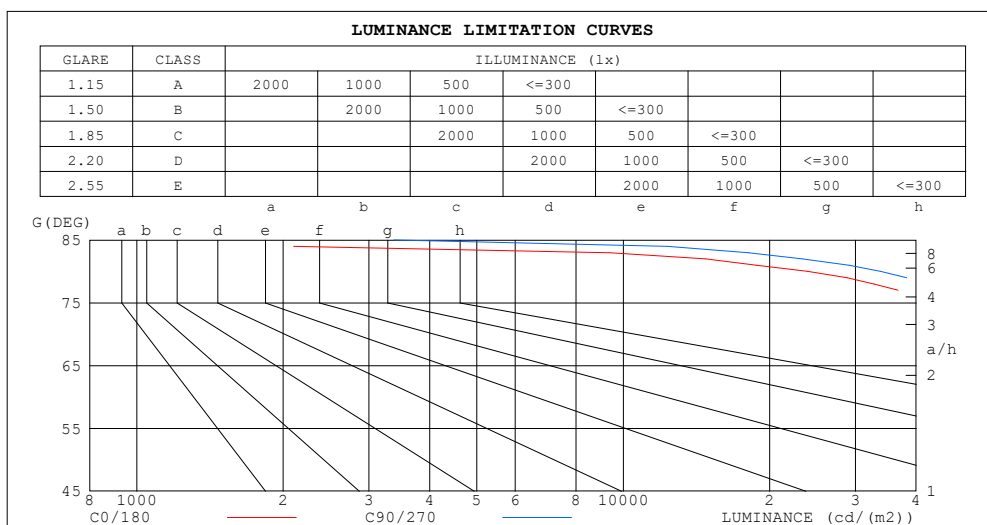
%lamp = 97.8%

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:0.0191A P:3.027W PF:0.6606 Lamp Flux:182.709x1 lm		
NAME: DRAGON EYE_BLK_14 DEG_500mA_3000K 80CRI_NO SNOOT:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	24	3377
80	23926	33803
75	43733	52951
70	56817	63109
65	61116	66344
60	62519	66251
55	64641	69060
50	68821	72810
45	86787	108475

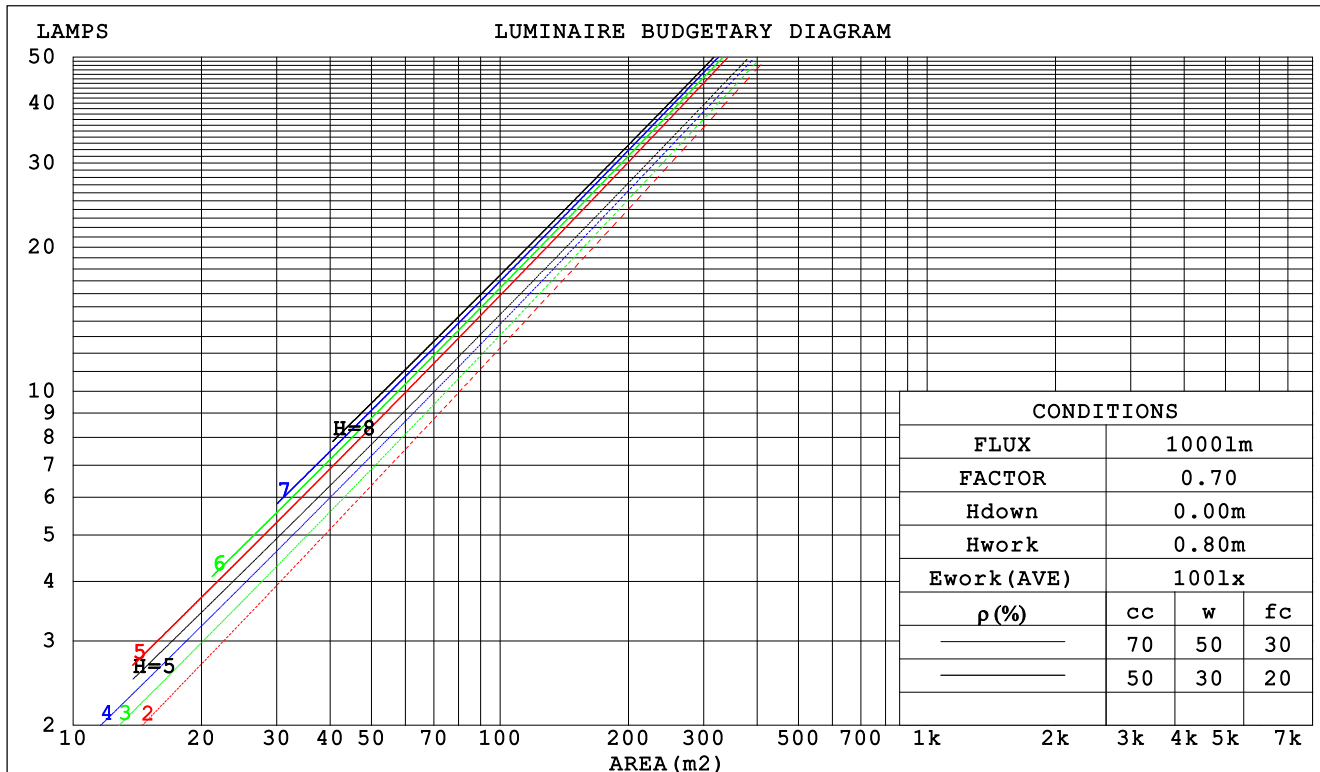
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:27 August 2024

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:0.0191A P:3.027W PF:0.6606 Lamp Flux:182.709x1 lm		
NAME: DRAGON EYE_BLK_14 DEG_500mA_3000K 80CRI_NO SNOOT:LED		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	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	1.12	1.10	1.09	1.10	1.09	1.07	1.06	1.05	1.04	1.03	1.02	1.01	.99	.98	.98	.96
2.0	1.07	1.04	1.01	1.05	1.02	.00	1.02	.00	.98	.99	.97	.96	.96	.95	.94	.92
3.0	1.02	.98	.95	1.01	.97	.94	.98	.95	.93	.96	.94	.92	.94	.92	.90	.89
4.0	.98	.94	.91	.97	.93	.90	.95	.92	.89	.93	.90	.88	.91	.89	.87	.86
5.0	.94	.90	.87	.93	.90	.87	.92	.88	.86	.90	.87	.85	.89	.86	.84	.83
6.0	.91	.87	.84	.90	.86	.84	.89	.86	.83	.88	.85	.83	.87	.84	.82	.81
7.0	.88	.84	.81	.88	.84	.81	.87	.83	.81	.86	.83	.80	.85	.82	.80	.79
8.0	.86	.82	.79	.85	.81	.79	.84	.81	.78	.84	.80	.78	.83	.80	.78	.77
9.0	.84	.80	.77	.83	.79	.77	.82	.79	.76	.82	.79	.76	.81	.78	.76	.75
10.0	.82	.78	.75	.81	.77	.75	.81	.77	.75	.80	.77	.74	.79	.76	.74	.73



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:0.0191A P:3.027W PF:0.6606 Lamp Flux:182.709x1 lm		
NAME: DRAGON EYE_BLK_14 DEG_500mA_3000K 80CRI_NO SNOOT: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	.145 .082 .026	.138 .079 .025	.126 .072 .023	.114 .066 .021	.104 .060 .019	
2.0	.134 .074 .023	.129 .071 .022	.119 .066 .020	.109 .061 .019	.100 .057 .018	
3.0	.125 .066 .020	.120 .064 .019	.111 .060 .018	.104 .057 .017	.096 .053 .016	
4.0	.116 .060 .018	.112 .059 .017	.105 .056 .017	.098 .053 .016	.092 .050 .015	
5.0	.108 .055 .016	.105 .054 .016	.099 .052 .015	.093 .049 .015	.088 .047 .014	
6.0	.102 .051 .015	.099 .050 .014	.094 .048 .014	.089 .046 .014	.084 .044 .013	
7.0	.096 .047 .013	.094 .047 .013	.089 .045 .013	.085 .043 .013	.081 .042 .012	
8.0	.091 .044 .012	.089 .044 .012	.085 .042 .012	.081 .041 .012	.077 .040 .012	
9.0	.086 .042 .012	.084 .041 .012	.081 .040 .011	.077 .039 .011	.074 .038 .011	
10.0	.082 .039 .011	.080 .039 .011	.077 .038 .011	.074 .037 .010	.071 .036 .010	

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	.169 .158 .147	.144 .135 .127	.099 .093 .088	.057 .054 .051	.018 .017 .017	
2.0	.151 .133 .117	.130 .114 .101	.089 .079 .071	.051 .046 .041	.016 .015 .013	
3.0	.136 .113 .095	.117 .098 .082	.080 .068 .058	.046 .040 .034	.015 .013 .011	
4.0	.124 .098 .078	.106 .085 .068	.073 .059 .048	.042 .035 .028	.014 .011 .009	
5.0	.113 .086 .065	.097 .074 .057	.067 .052 .040	.039 .030 .024	.013 .010 .008	
6.0	.104 .076 .055	.090 .066 .048	.062 .046 .034	.036 .027 .020	.012 .009 .007	
7.0	.097 .068 .047	.083 .059 .041	.057 .041 .029	.033 .024 .017	.011 .008 .006	
8.0	.090 .061 .041	.077 .053 .036	.053 .037 .025	.031 .022 .015	.010 .007 .005	
9.0	.084 .055 .036	.072 .048 .031	.050 .034 .022	.029 .020 .013	.009 .007 .004	
10.0	.079 .050 .031	.068 .044 .027	.047 .031 .019	.027 .018 .012	.009 .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:0.0191A P:3.027W PF:0.6606 Lamp Flux:182.709x1 lm											
NAME: DRAGON EYE_BLK_14 DEG_500mA_3000K 80CRI_NO						SNOOT: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	2H	21.3	21.9	21.5	22.1	22.2	21.8	22.5	22.0	22.6	22.8
	3H	22.4	23.1	22.7	23.2	23.4	22.9	23.6	23.2	23.8	24.0
	4H	22.8	23.4	23.1	23.6	23.8	23.4	24.0	23.6	24.2	24.4
	6H	22.9	23.5	23.2	23.7	23.9	23.6	24.1	23.8	24.4	24.6
	8H	22.9	23.4	23.2	23.7	23.9	23.6	24.1	23.8	24.4	24.6
	12H	22.8	23.4	23.1	23.6	23.9	23.5	24.1	23.8	24.3	24.6
4H	2H	21.8	22.4	22.1	22.6	22.8	22.2	22.8	22.5	23.0	23.2
	3H	23.1	23.7	23.5	23.9	24.2	23.6	24.1	23.9	24.4	24.6
	4H	23.6	24.1	23.9	24.4	24.7	24.1	24.6	24.4	24.9	25.2
	6H	23.7	24.2	24.1	24.5	24.9	24.3	24.8	24.7	25.1	25.4
	8H	23.7	24.1	24.1	24.5	24.8	24.3	24.7	24.7	25.1	25.4
	12H	23.7	24.0	24.1	24.4	24.8	24.3	24.7	24.7	25.0	25.4
8H	4H	23.8	24.2	24.1	24.5	24.9	24.2	24.6	24.6	25.0	25.3
	6H	24.0	24.3	24.4	24.7	25.1	24.5	24.8	24.9	25.2	25.6
	8H	23.9	24.2	24.4	24.7	25.1	24.5	24.8	25.0	25.2	25.7
	12H	23.9	24.1	24.3	24.6	25.0	24.5	24.7	24.9	25.2	25.6
12H	4H	23.7	24.1	24.1	24.5	24.9	24.2	24.6	24.6	24.9	25.3
	6H	23.9	24.2	24.4	24.7	25.1	24.5	24.8	24.9	25.2	25.6
	8H	23.9	24.2	24.4	24.6	25.1	24.5	24.7	25.0	25.2	25.7
Variations with the observer position at spacings:											
S = 1.0H	+ 0.5 / - 0.7					+ 0.5 / - 0.7					
1.5H	+ 0.9 / - 0.6					+ 1.1 / - 0.7					
2.0H	+ 0.3 / - 0.4					+ 1.0 / - 0.4					

CIE Pub.117 Corrected 182.7 lm Total Lamp Luminous Flux. (8log(F/F0) = -5.9)

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:0.0191A P:3.027W PF:0.6606 Lamp Flux:182.709x1 lm		
NAME: DRAGON EYE_BLK_14 DEG_500mA_3000K 80CRI_NO SNOOT:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

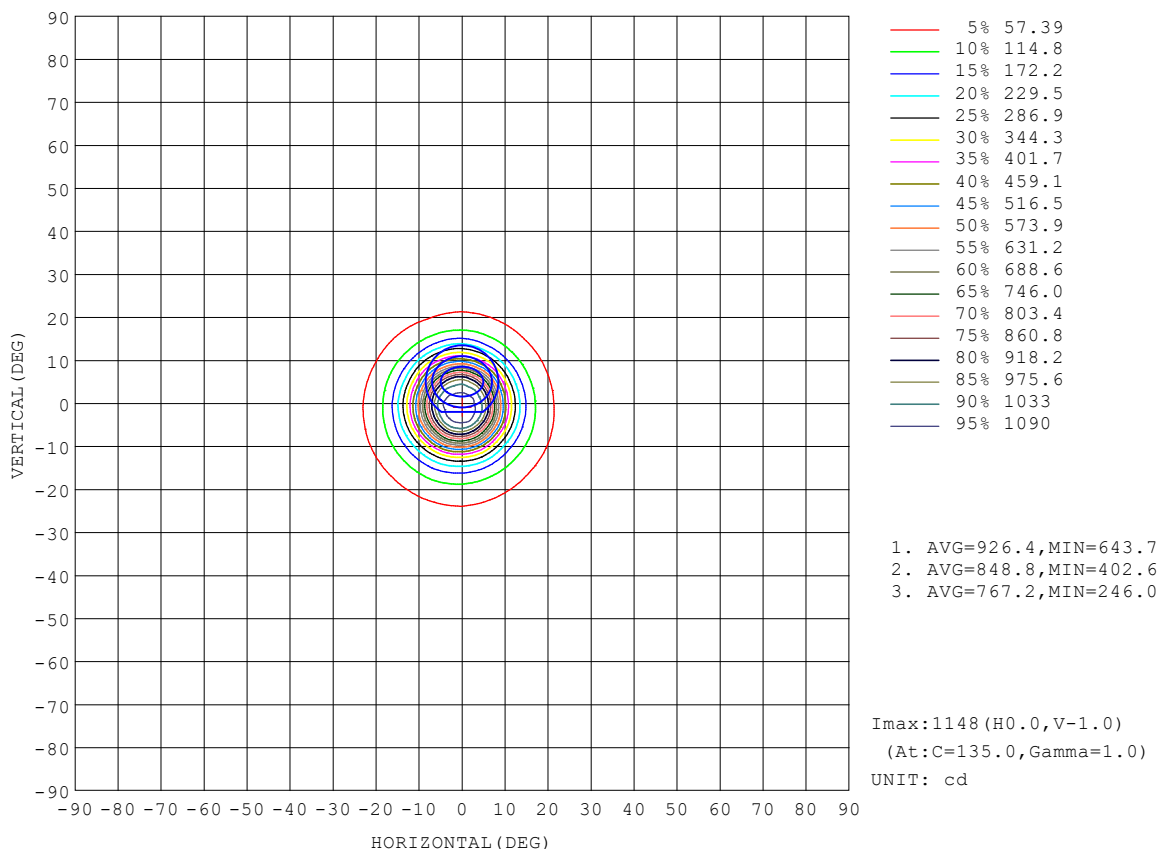
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	87	81	77	87	81	77	86	80	77	73
0.80	95	89	85	94	88	85	93	88	84	81
1.00	99	93	90	98	93	89	96	93	89	85
1.25	103	98	94	102	97	94	100	96	93	89
1.50	106	101	97	104	100	97	102	99	96	91
2.00	108	104	101	107	103	100	104	101	98	93
2.50	110	106	103	108	105	102	105	103	100	94
3.00	112	108	105	110	107	104	106	104	102	96
4.00	114	111	109	112	109	107	108	106	105	97
5.00	115	113	111	113	111	109	109	107	106	99
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNM = 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:0.0191A P:3.027W PF:0.6606 Lamp Flux:182.709x1 lm		
NAME: DRAGON EYE_BLK_14 DEG_500mA_3000K 80CRI_NO SNOOT:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

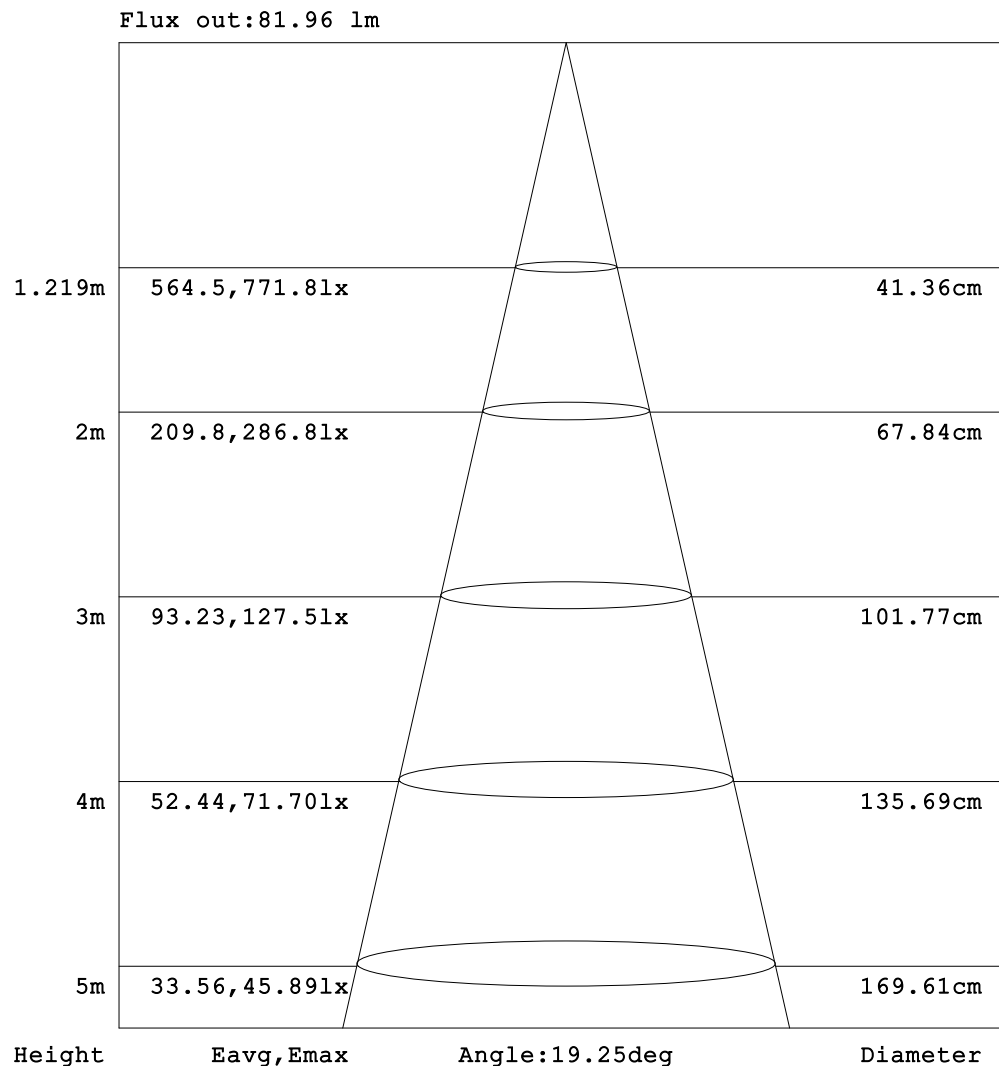


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:27 August 2024

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:0.0191A P:3.027W PF:0.6606 Lamp Flux:182.709x1 lm		
NAME: DRAGON EYE_BLK_14 DEG_500mA_3000K 80CRI_NO SNOOT:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:



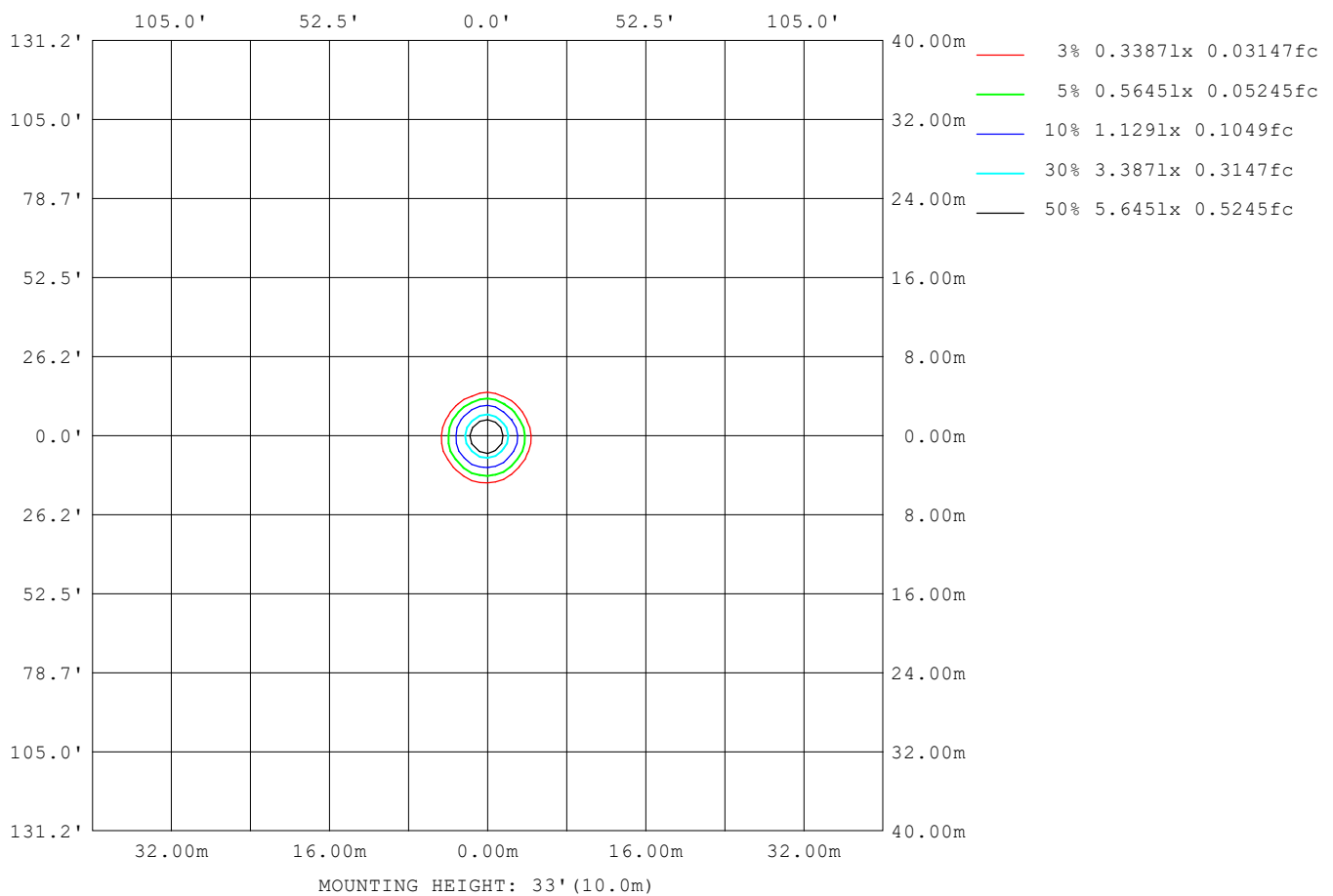
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date: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:0.0191A P:3.027W PF:0.6606 Lamp Flux:182.709x1 lm		
NAME: DRAGON EYE_BLK_14 DEG_500mA_3000K 80CRI_NO SNOOT: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: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:0.0191A P:3.027W PF:0.6606 Lamp Flux:182.709x1 lm		
NAME: DRAGON EYE_BLK_14 DEG_500mA_3000K 80CRI_NO SNOOT:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

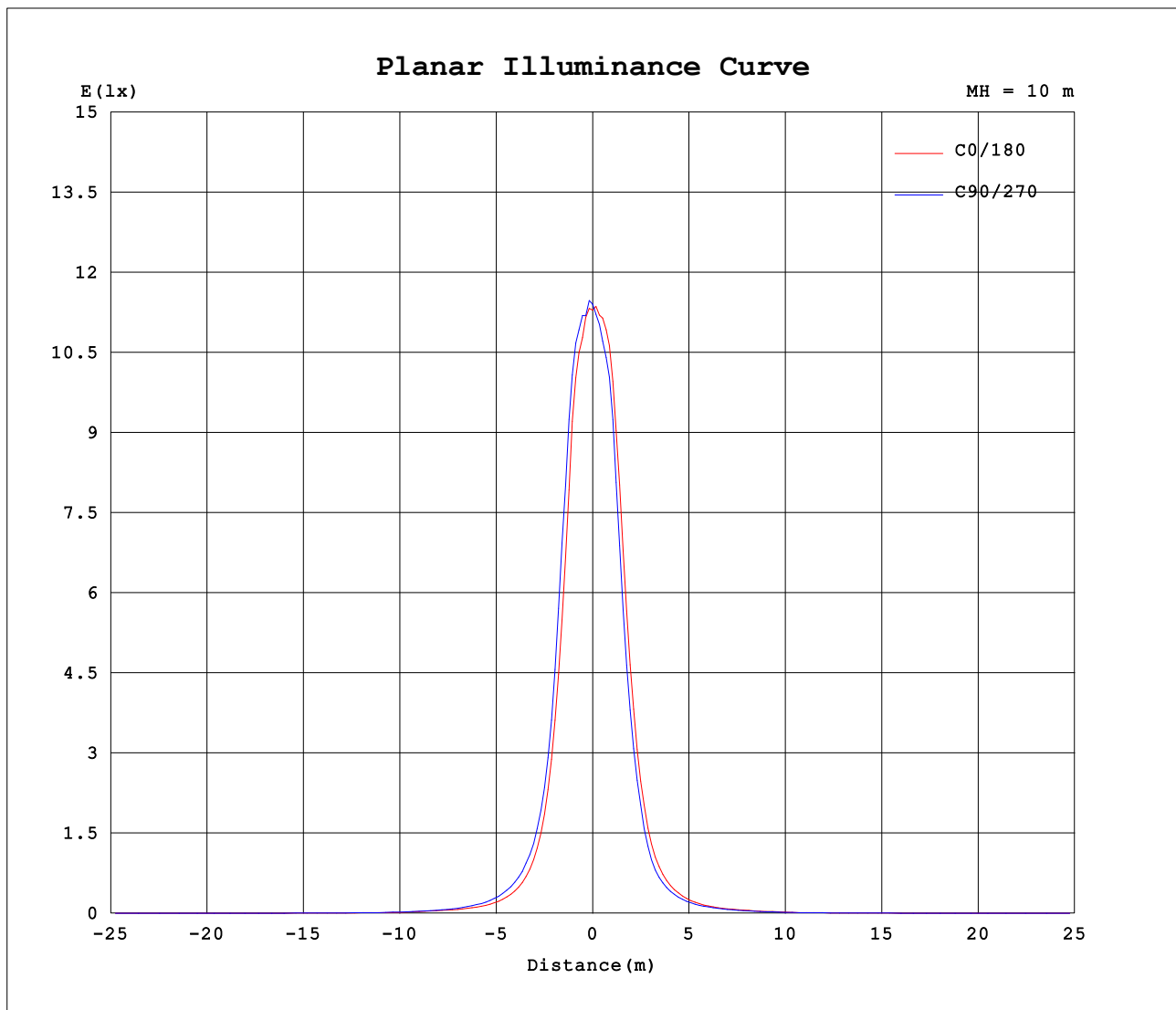
AvgL	cd/m2
L_0~180 (65) av	61806
L_0~180 (75) av	45257
L_0~180 (85) av	16
L_90~270 (65) av	62654
L_90~270 (75) av	46456
L_90~270 (85) av	1677
L_45 (65) av	63333
L_45 (75) av	47151
L_45 (85) av	1188

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:

