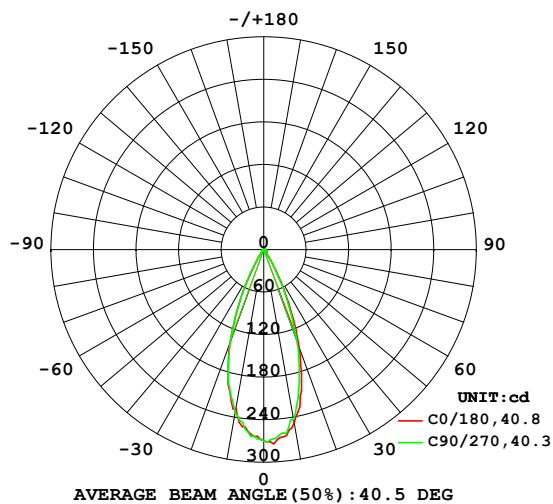


LUMINAIRE PHOTOMETRIC TEST REPORT

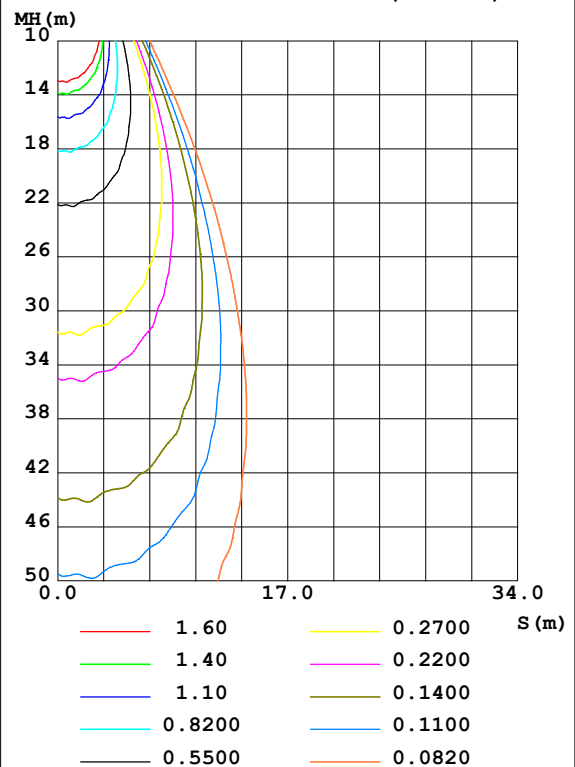
Test:U:240.1V I:0.0169A P:2.342W PF:0.5754 Lamp Flux:132.056x1 lm		
NAME: DRAGON EYE_BLK_36 DEG_350mA_3000K 80CRI_NO SNOOT:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 56.39 lm/W
MODEL	CREE XPG-3	Imax(cd)	274.4	S/MH(C0/180)	0.64	
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	0.64	
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	132.06	η UP,DN(C0-180)	0.0,50.5	
NOMINAL FLUX(lm)	132.056	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.5	
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50	
TEST VOLTAGE(V)	230	η down(%)	100.0	CIBSE SHR MAX	0.65	

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:02 September 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	247.7	246.7	243.2	237.6	227.7	229.1	233.4	242.8	0- 10	24.28	24.28	18.4,18.4
20	145.2	141.0	136.2	139.7	139.1	133.6	139.1	142.5	10- 20	53.47	77.75	58.9,58.9
30	35.40	32.72	32.13	33.95	34.19	31.68	35.30	34.75	20- 30	36.32	114.1	86.4,86.4
40	5.866	5.902	5.528	5.424	5.337	5.293	5.438	5.746	30- 40	8.718	122.8	93,93
50	3.623	3.710	3.432	3.376	3.335	3.452	3.421	3.571	40- 50	3.272	126.1	95.5,95.5
60	2.519	2.534	2.397	2.337	2.396	2.404	2.391	2.516	50- 60	2.647	128.7	97.5,97.5
70	1.740	1.676	1.640	1.597	1.589	1.605	1.623	1.768	60- 70	2.040	130.7	99,99
80	0.5777	0.5612	0.4983	0.4647	0.4602	0.4755	0.4900	0.5888	70- 80	1.190	131.9	99.9,99.9
90	0	0.0037	0.0036	0	0.0037	0	0	0	80- 90	0.1217	132.1	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): 124.54 lm

%lum = 94.3%

%lamp = 94.3%

Conical surface Flux(120deg): 128.7 lm

%lum = 97.5%

%lamp = 97.5%

C Range: 0 - 360DEG

C Interval: 22.5DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:JEFF

Test Date:02 September 2024

 γ Range: 0 - 90DEG γ Interval: 1.0DEG

Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295

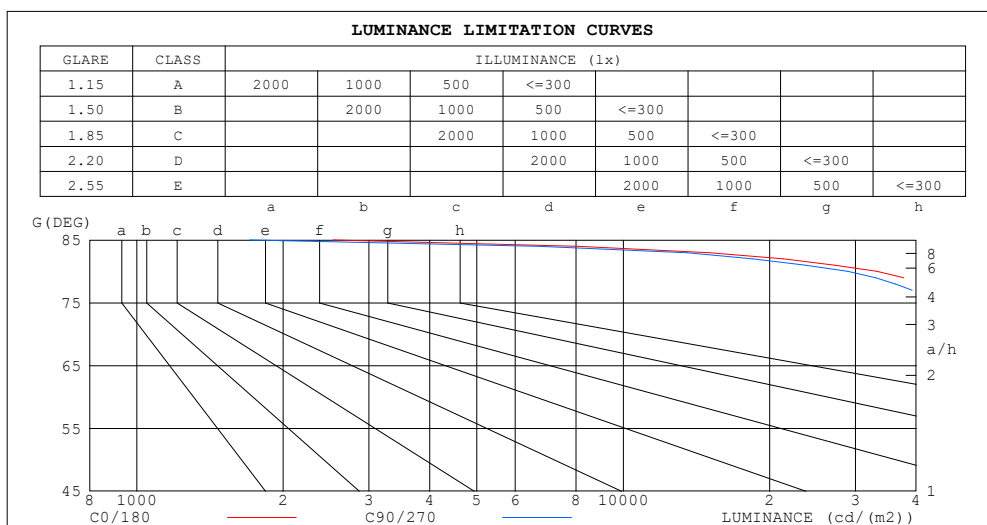
Humidity:65.0%

Test Distance:7.888m [K=1.0000]

Remarks:

LUMINANCE LIMITATION CURVES

Test:U:240.1V I:0.0169A P:2.342W PF:0.5754 Lamp Flux:132.056x1 lm		
NAME: DRAGON EYE_BLK_36 DEG_350mA_3000K 80CRI_NO SNOOT:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:



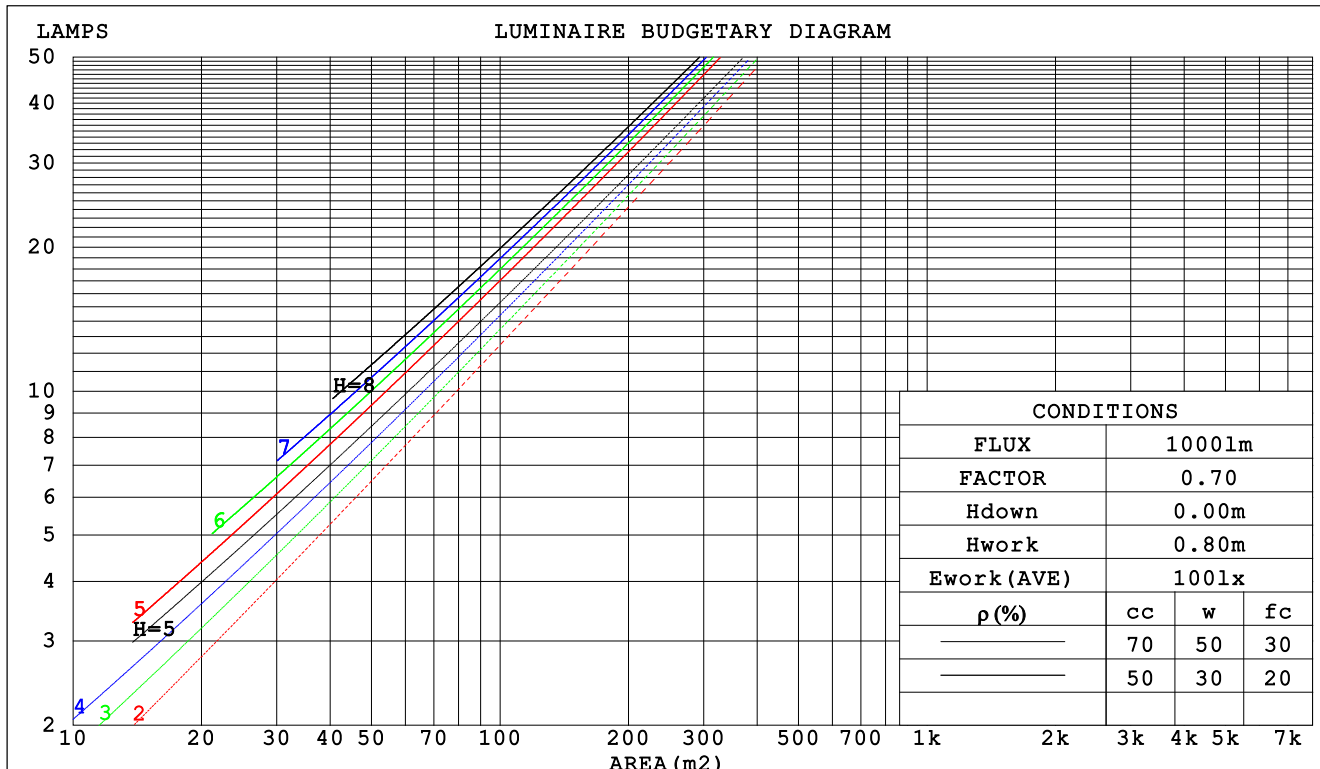
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: JEFF
Test Date: 02 September 2024

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:0.0169A P:2.342W PF:0.5754 Lamp Flux:132.056x1 lm		
NAME: DRAGON EYE_BLK_36 DEG_350mA_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	1.11	1.09	1.07	1.09	1.07	1.05	1.05	1.03	1.02	1.01	1.00	.99	.98	.97	.96	.94
2.0	1.04	1.01	.98	1.03	.99	.96	.90	.97	.94	.97	.94	.92	.94	.92	.90	.89
3.0	.98	.94	.90	.97	.93	.90	.94	.91	.88	.92	.89	.87	.90	.88	.85	.84
4.0	.93	.88	.84	.92	.87	.84	.90	.86	.83	.88	.85	.82	.86	.83	.81	.80
5.0	.88	.83	.79	.87	.83	.79	.86	.82	.78	.84	.81	.78	.83	.80	.77	.76
6.0	.84	.79	.75	.83	.78	.75	.82	.78	.74	.81	.77	.74	.79	.76	.73	.72
7.0	.80	.75	.71	.80	.75	.71	.78	.74	.71	.77	.73	.70	.76	.73	.70	.69
8.0	.77	.72	.68	.76	.71	.68	.75	.71	.68	.74	.70	.67	.73	.70	.67	.66
9.0	.74	.68	.65	.73	.68	.65	.72	.68	.65	.71	.67	.64	.71	.67	.64	.63
10.0	.71	.66	.62	.70	.65	.62	.69	.65	.62	.69	.65	.62	.68	.64	.62	.60



C Range: 0 - 360DEG

C Interval: 22.5DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:JEFF

Test Date:02 September 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:0.0169A P:2.342W PF:0.5754 Lamp Flux:132.056x1 lm		
NAME: DRAGON EYE_BLK_36 DEG_350mA_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	.168	.095	.030	.161	.092	.029	.148	.085	.027	.137	.079	.025	.126	.073	.024		
2.0	.158	.086	.027	.152	.084	.026	.142	.079	.024	.132	.074	.023	.123	.070	.022		
3.0	.148	.079	.024	.143	.077	.023	.134	.073	.022	.126	.069	.021	.119	.066	.020		
4.0	.139	.072	.021	.135	.071	.021	.128	.068	.020	.121	.065	.020	.114	.062	.019		
5.0	.132	.067	.019	.128	.066	.019	.122	.063	.019	.115	.061	.018	.110	.059	.018		
6.0	.125	.062	.018	.122	.061	.018	.116	.059	.017	.111	.057	.017	.106	.056	.017		
7.0	.118	.059	.017	.116	.058	.016	.111	.056	.016	.106	.054	.016	.102	.053	.016		
8.0	.113	.055	.016	.111	.054	.015	.106	.053	.015	.102	.052	.015	.098	.050	.015		
9.0	.108	.052	.015	.106	.052	.014	.102	.050	.014	.098	.049	.014	.095	.048	.014		
10.0	.103	.050	.014	.102	.049	.014	.098	.048	.014	.095	.047	.013	.091	.046	.013		

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	.170	.157	.146	.146	.135	.125	.100	.093	.087	.057	.054	.050	.018	.017	.016	
2.0	.154	.133	.114	.132	.114	.099	.091	.079	.069	.052	.046	.040	.017	.015	.013	
3.0	.141	.113	.092	.121	.098	.079	.083	.068	.056	.048	.040	.033	.015	.013	.011	
4.0	.130	.099	.075	.111	.085	.065	.077	.059	.046	.044	.035	.027	.014	.011	.009	
5.0	.120	.087	.062	.103	.075	.054	.071	.052	.038	.041	.031	.023	.013	.010	.007	
6.0	.112	.077	.052	.096	.067	.045	.066	.047	.032	.039	.027	.019	.012	.009	.006	
7.0	.105	.069	.044	.090	.060	.038	.062	.042	.027	.036	.025	.016	.012	.008	.005	
8.0	.099	.063	.038	.085	.054	.033	.059	.038	.023	.034	.023	.014	.011	.007	.005	
9.0	.094	.057	.033	.081	.050	.029	.056	.035	.020	.033	.021	.012	.011	.007	.004	
10.0	.089	.053	.029	.077	.046	.025	.053	.032	.018	.031	.019	.011	.010	.006	.004	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:02 September 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:0.0169A P:2.342W PF:0.5754 Lamp Flux:132.056x1 lm										
NAME: DRAGON EYE_BLK_36 DEG_350mA_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	20.9	21.7	21.1	21.9	22.1	20.6	21.5	20.9	21.6	21.8
3H	22.2	22.9	22.4	23.1	23.3	21.9	22.7	22.1	22.8	23.0
4H	22.7	23.5	23.0	23.7	23.9	22.4	23.1	22.7	23.4	23.6
6H	23.0	23.7	23.3	24.0	24.2	22.7	23.4	23.0	23.6	23.8
8H	23.0	23.7	23.3	24.0	24.2	22.7	23.3	23.0	23.6	23.9
12H	23.0	23.6	23.3	23.9	24.2	22.6	23.3	23.0	23.5	23.8
4H 2H	21.4	22.1	21.6	22.3	22.5	21.1	21.9	21.4	22.1	22.3
3H	22.8	23.5	23.2	23.8	24.0	22.6	23.2	22.9	23.5	23.8
4H	23.5	24.1	23.9	24.4	24.7	23.3	23.8	23.6	24.1	24.4
6H	23.9	24.4	24.3	24.8	25.1	23.6	24.1	24.0	24.4	24.8
8H	23.9	24.4	24.3	24.8	25.1	23.6	24.1	24.0	24.4	24.8
12H	23.9	24.3	24.3	24.7	25.1	23.5	24.0	24.0	24.4	24.7
8H 4H	23.7	24.2	24.1	24.6	24.9	23.5	24.0	23.9	24.3	24.7
6H	24.2	24.6	24.6	25.0	25.4	23.9	24.3	24.3	24.7	25.1
8H	24.2	24.6	24.7	25.0	25.4	23.9	24.2	24.3	24.7	25.1
12H	24.2	24.5	24.6	24.9	25.4	23.8	24.1	24.3	24.6	25.1
12H 4H	23.7	24.1	24.1	24.5	24.9	23.5	23.9	23.9	24.3	24.7
6H	24.2	24.5	24.6	24.9	25.4	23.9	24.2	24.3	24.6	25.1
8H	24.2	24.5	24.7	24.9	25.4	23.9	24.2	24.4	24.6	25.1
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.3					+ 0.3 / - 0.4				
1.5H	+ 0.4 / - 0.3					+ 0.4 / - 0.3				
2.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.4				

CIE Pub.117 Corrected 132.1 lm Total Lamp Luminous Flux. (8log(F/F0) = -7.0)

C Range: 0 - 360DEG

C Interval: 22.5DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:JEFF

Test Date:02 September 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:0.0169A P:2.342W PF:0.5754 Lamp Flux:132.056x1 lm		
NAME: DRAGON EYE_BLK_36 DEG_350mA_3000K 80CRI_NO SNOOT:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

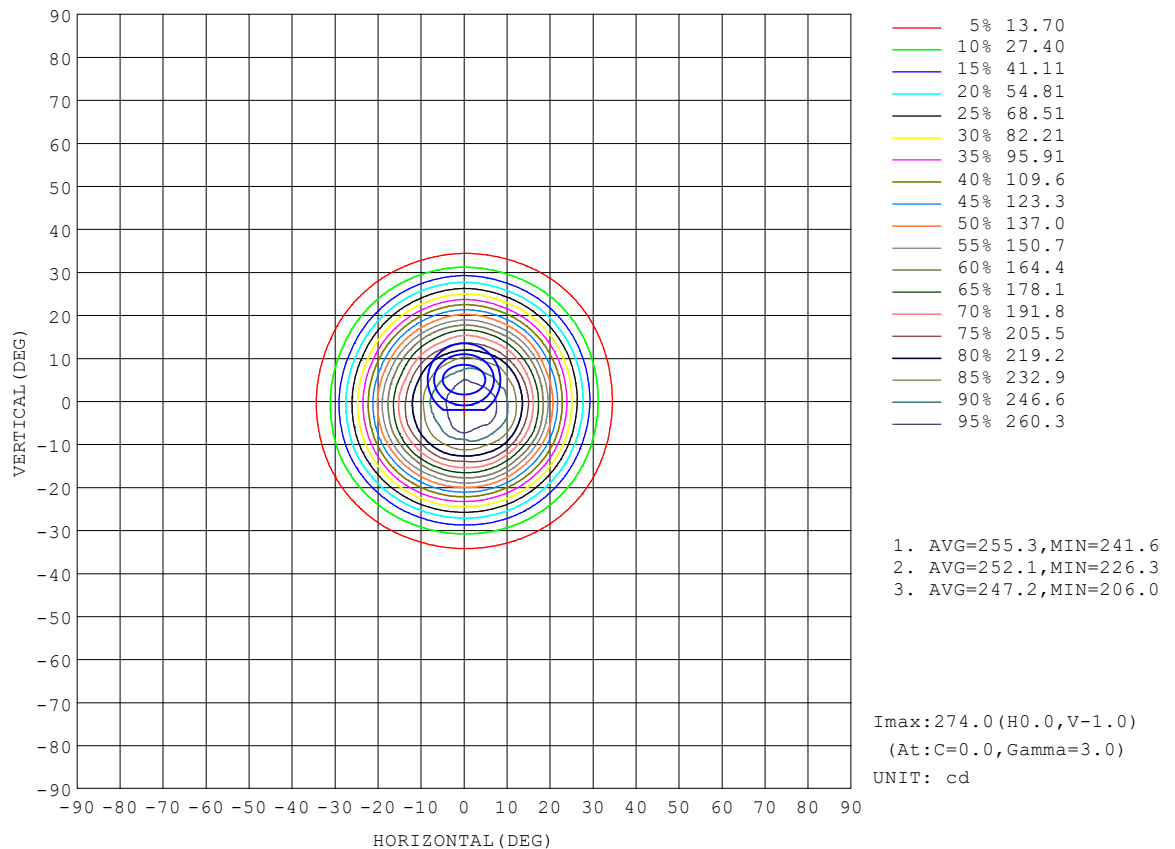
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	87	81	77	87	81	77	86	80	77	73
0.80	95	89	85	94	88	85	93	88	84	81
1.00	99	93	89	98	93	89	96	93	89	85
1.25	103	97	94	102	97	94	100	96	93	88
1.50	105	101	97	104	100	97	102	98	96	91
2.00	108	104	101	107	103	100	104	101	98	93
2.50	110	106	103	108	105	102	105	102	100	94
3.00	111	108	105	110	107	104	106	104	102	95
4.00	114	111	109	112	109	107	108	106	104	97
5.00	115	113	111	113	111	109	109	107	106	98
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: 02 September 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:0.0169A P:2.342W PF:0.5754 Lamp Flux:132.056x1 lm		
NAME: DRAGON EYE_BLK_36 DEG_350mA_3000K 80CRI_NO SNOOT:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

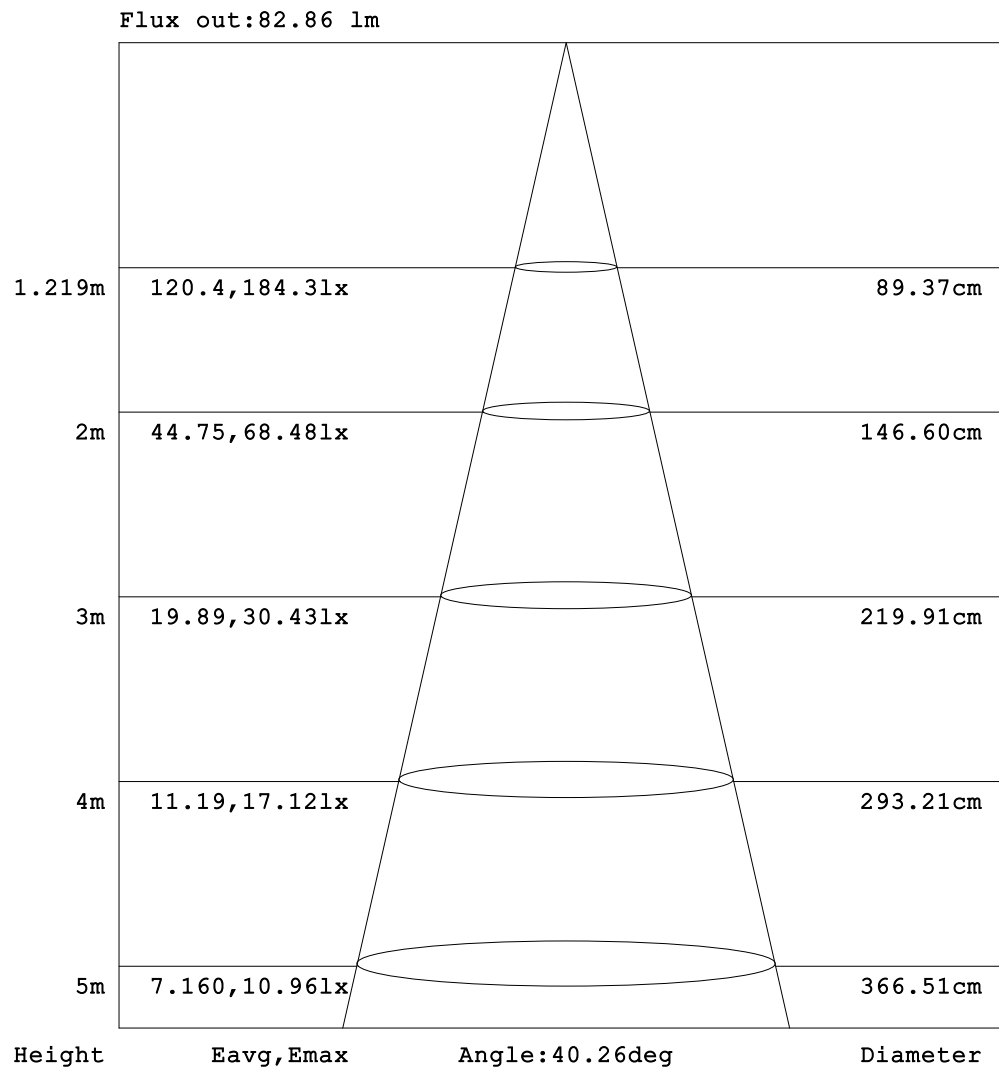


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:02 September 2024

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:0.0169A P:2.342W PF:0.5754 Lamp Flux:132.056x1 lm		
NAME: DRAGON EYE_BLK_36 DEG_350mA_3000K 80CRI_NO SNOOT:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:



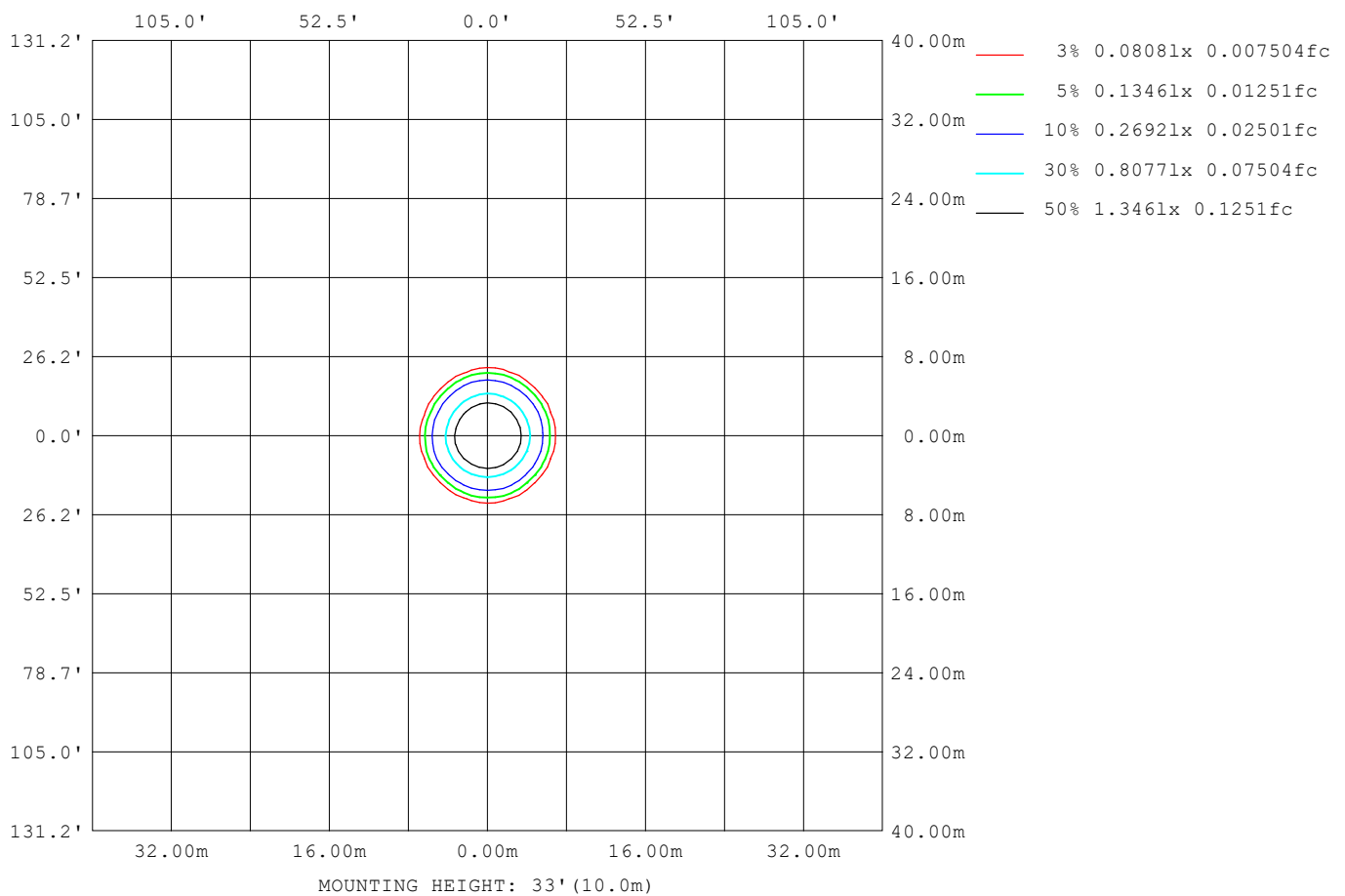
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: JEFF
Test Date: 02 September 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:0.0169A P:2.342W PF:0.5754 Lamp Flux:132.056x1 lm		
NAME: DRAGON EYE_BLK_36 DEG_350mA_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:02 September 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:0.0169A P:2.342W PF:0.5754 Lamp Flux:132.056x1 lm		
NAME: DRAGON EYE_BLK_36 DEG_350mA_3000K 80CRI_NO SNOOT:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

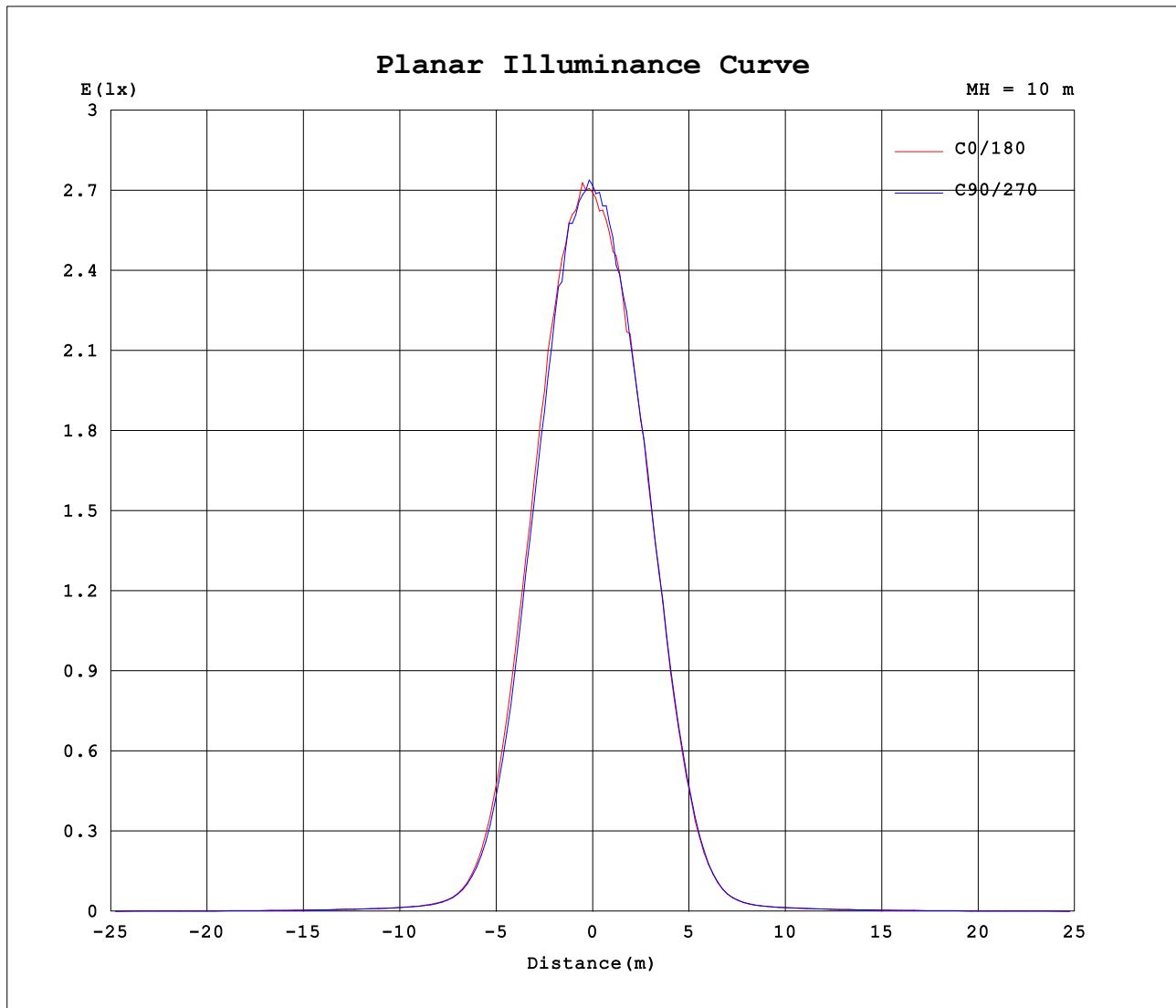
AvgL	cd/m2
L_0~180 (65) av	49064
L_0~180 (75) av	45024
L_0~180 (85) av	1268
L_90~270 (65) av	48125
L_90~270 (75) av	43610
L_90~270 (85) av	847
L_45 (65) av	49447
L_45 (75) av	45449
L_45 (85) av	1082

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:02 September 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: 02 September 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:

