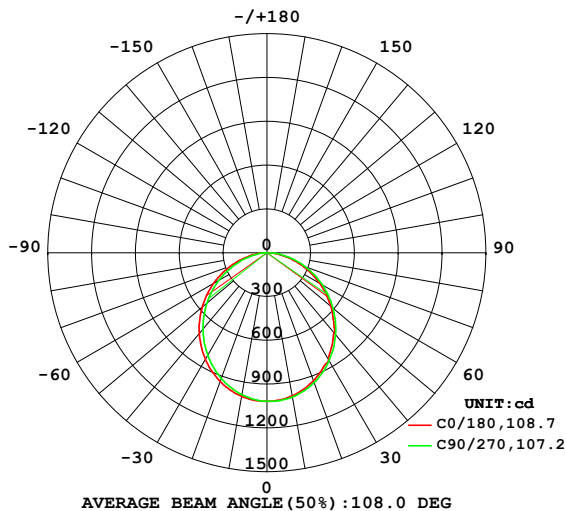


**LUMINAIRE PHOTOMETRIC TEST REPORT**

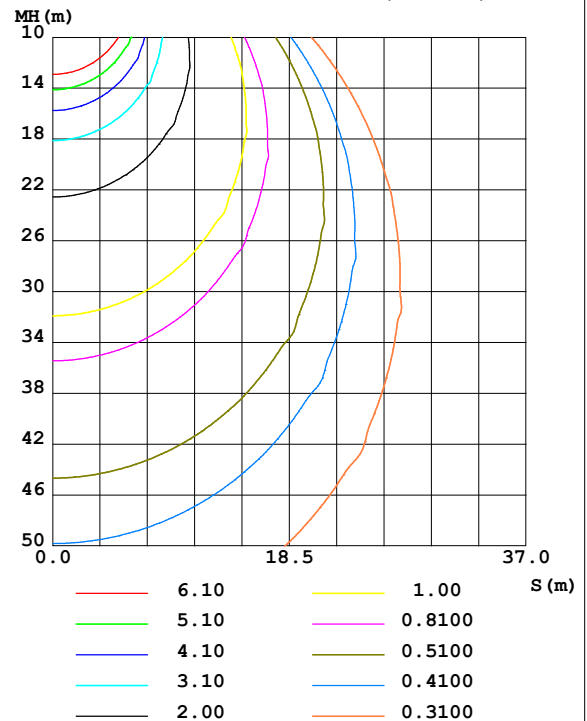
Test:U:239.96V I:0.1139A P:24.821W PF:0.9085 Freq:50.09Hz Lamp Flux:2778.09x1 lm		
NAME: BAY-KON_1195 x 295_THREDBO WHITE_YPP VL2 2MM HE_250mm_LK	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
4 x LIMOLUX 560mm 1300lm 840 HV ADV5		Eff: 111.93 lm/W			
NOMINAL POWER(W)		I <sub>max</sub> (cd)	1018	S/MH(C0/180)	1.24
RATED VOLTAGE(V)	220.0	LOR(%)	100.0	S/MH(C90/270)	1.19
NOMINAL FLUX(lm)	2778.09	TOTAL FLUX(lm)	2778.1	η UP,DN(C0-180)	0.0,51.6
LAMPS INSIDE	1	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,48.4
TEST VOLTAGE(V)	230	η up(%)	0.0	CIBSE SHR NOM	1.25
		η 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:26 November 2020

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:7.250m [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	995.2	995.9	1004	1006	998.8	997.9	987.3	983.1	0- 10	96.08	96.08	3.46,3.46
20	933.0	932.4	946.7	953.9	938.5	935.7	915.9	910.8	10- 20	273.3	369.4	13.3,13.3
30	847.3	835.1	853.0	864.5	843.4	838.2	811.0	806.8	20- 30	409.2	778.7	28,28
40	714.9	719.5	731.2	746.7	721.3	714.7	681.9	681.3	30- 40	486.1	1265	45.5,45.5
50	574.3	567.3	590.5	607.7	580.1	572.1	537.0	542.6	40- 50	495.9	1761	63.4,63.4
60	416.0	412.3	437.7	455.0	424.7	417.0	382.3	377.5	50- 60	441.7	2202	79.3,79.3
70	254.7	252.6	278.6	295.0	262.4	258.9	224.3	219.4	60- 70	332.0	2534	91.2,91.2
80	102.8	104.1	128.0	140.5	109.4	108.2	83.78	78.08	70- 80	189.2	2724	98,98
90	2.037	2.072	15.78	21.57	2.420	2.934	2.244	2.423	80- 90	54.57	2778	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): 1515.7 lm

%lum = 54.6%

%lamp = 54.6%

Conical surface Flux(120deg): 2202.3 lm

%lum = 79.3%

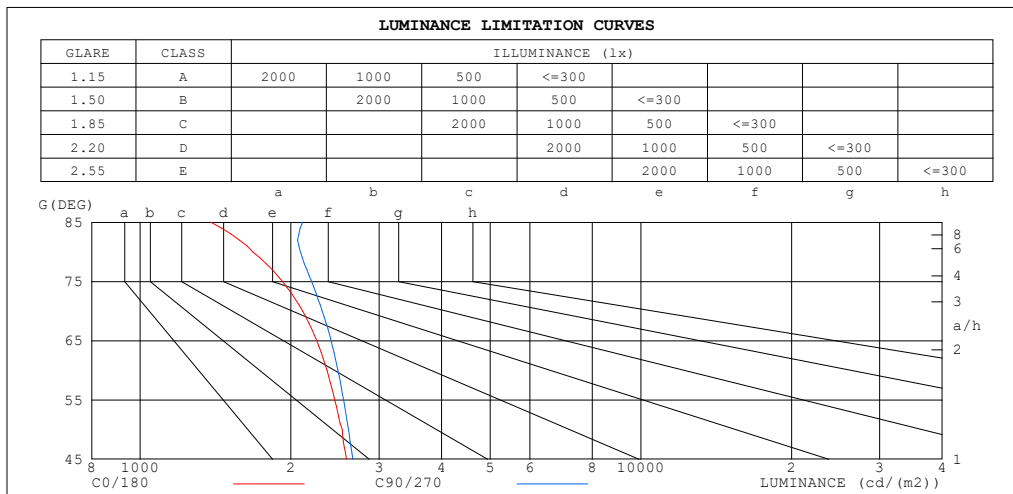
%lamp = 79.3%

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:26 November 2020

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:7.250m [K=1.0000]  
Remarks:

**LUMINANCE LIMITATION CURVES**

Test:U:239.96V I:0.1139A P:24.821W PF:0.9085 Freq:50.09Hz Lamp Flux:2778.09x1 lm		
NAME: BAY-KON_1195 x 295_THREDBO WHITE_YPP VL2 2MM HE_250mm_LK	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	1384	2113
80	1680	2091
75	1925	2199
70	2112	2311
65	2252	2406
60	2361	2483
55	2448	2548
50	2535	2606
45	2583	2659

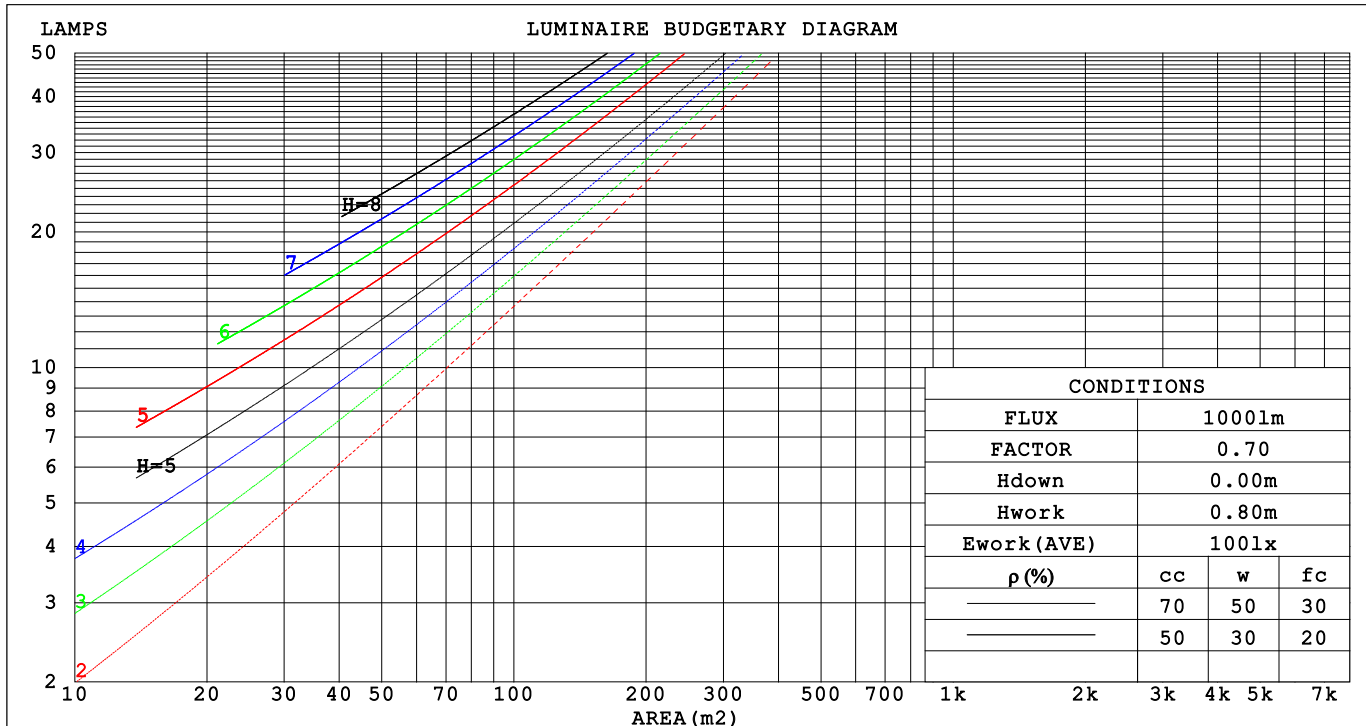
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:26 November 2020

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:7.250m [K=1.0000]  
Remarks:

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

Test:U:239.96V I:0.1139A P:24.821W PF:0.9085 Freq:50.09Hz Lamp Flux:2778.09x1 lm		
NAME: BAY-KON_1195 x 295_THREDBO WHITE_YPP VL2 2MM HE_250mm_LK	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:
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						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	1.04	.00	.96	1.02	.98	.94	.97	.94	.91	.94	.91	.88	.90	.88	.86	.84
2.0	.91	.84	.78	.89	.83	.77	.85	.80	.75	.82	.78	.74	.79	.75	.72	.70
3.0	.80	.72	.65	.78	.71	.64	.75	.69	.63	.72	.67	.62	.70	.65	.61	.59
4.0	.71	.62	.55	.69	.61	.55	.67	.60	.54	.64	.58	.53	.62	.57	.53	.50
5.0	.63	.54	.48	.62	.54	.47	.60	.52	.47	.58	.51	.46	.56	.50	.46	.44
6.0	.57	.48	.42	.56	.47	.41	.54	.47	.41	.52	.46	.41	.51	.45	.40	.38
7.0	.52	.43	.37	.51	.42	.37	.49	.42	.36	.48	.41	.36	.46	.40	.36	.34
8.0	.47	.39	.33	.46	.38	.33	.45	.38	.32	.44	.37	.32	.43	.37	.32	.30
9.0	.43	.35	.30	.43	.35	.29	.42	.34	.29	.40	.34	.29	.39	.33	.29	.27
10.0	.40	.32	.27	.39	.32	.27	.38	.31	.27	.37	.31	.26	.37	.31	.26	.25



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:26 November 2020

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:7.250m [K=1.0000]  
Remarks:

## WEC AND CCEC

Test:U:239.96V I:0.1139A P:24.821W PF:0.9085 Freq:50.09Hz Lamp Flux:2778.09x1 lm		
NAME: BAY-KON_1195 x 295_THREDBO WHITE_YPP VL2 2MM HE 250mm LK	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:
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	.308	.175	.055	.301	.172	.055	.288	.165	.053	.275	.159	.051	.264	.153	.049	
2.0	.290	.159	.049	.283	.156	.048	.272	.151	.047	.261	.146	.046	.251	.142	.045	
3.0	.268	.143	.043	.262	.141	.042	.252	.137	.042	.243	.133	.041	.234	.129	.040	
4.0	.247	.129	.038	.243	.127	.038	.233	.124	.037	.225	.121	.036	.217	.118	.036	
5.0	.229	.117	.034	.225	.115	.034	.216	.113	.033	.209	.110	.033	.202	.108	.032	
6.0	.212	.106	.030	.208	.105	.030	.201	.103	.030	.194	.101	.030	.188	.099	.029	
7.0	.198	.098	.028	.194	.097	.028	.188	.095	.027	.182	.093	.027	.176	.091	.027	
8.0	.185	.090	.025	.182	.089	.025	.176	.088	.025	.170	.086	.025	.165	.085	.025	
9.0	.173	.084	.023	.170	.083	.023	.165	.082	.023	.160	.080	.023	.156	.079	.023	
10.0	.163	.078	.022	.160	.077	.022	.156	.076	.021	.151	.075	.021	.147	.074	.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	.180	.156	.135	.154	.134	.116	.105	.092	.080	.061	.053	.047	.019	.017	.015	
2.0	.172	.132	.098	.147	.114	.085	.101	.079	.059	.058	.046	.035	.019	.015	.011	
3.0	.164	.114	.075	.141	.099	.065	.097	.068	.045	.056	.040	.027	.018	.013	.009	
4.0	.156	.101	.059	.134	.087	.051	.092	.061	.036	.053	.036	.021	.017	.012	.007	
5.0	.149	.091	.047	.128	.078	.041	.088	.055	.029	.051	.032	.017	.016	.010	.006	
6.0	.142	.082	.039	.122	.071	.034	.084	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.135	.075	.033	.116	.065	.029	.080	.046	.021	.047	.027	.012	.015	.009	.004	
8.0	.129	.069	.029	.111	.060	.025	.077	.042	.018	.045	.025	.011	.014	.008	.004	
9.0	.122	.064	.025	.106	.056	.022	.073	.039	.016	.043	.023	.009	.014	.008	.003	
10.0	.117	.060	.023	.101	.052	.020	.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:26 November 2020

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:7.250m [K=1.0000]  
Remarks:

**UGR(Unified Glare Rating) Table**

Test:U:239.96V I:0.1139A P:24.821W PF:0.9085 Freq:50.09Hz Lamp Flux:2778.09x1 lm											
NAME: BAY-KON_1195 x 295_THREDBO WHITE_YPP VL2 2MM HE_250mmx150mm								WEIGHT:			
SPEC.:					DIM.:			SERIAL No.:			
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		12.4	13.9	12.6	14.1	14.3	12.5	14.0	12.8	14.2	14.4
	3H	13.8	15.2	14.1	15.4	15.7	14.1	15.5	14.4	15.7	15.9
	4H	14.4	15.7	14.7	16.0	16.2	14.7	16.1	15.0	16.3	16.6
	6H	14.8	16.0	15.1	16.3	16.6	15.2	16.5	15.6	16.8	17.0
	8H	14.9	16.1	15.2	16.4	16.7	15.4	16.6	15.8	16.9	17.2
	12H	14.9	16.1	15.3	16.4	16.7	15.6	16.7	15.9	17.0	17.3
4H	2H	12.9	14.3	13.3	14.5	14.8	13.1	14.4	13.4	14.7	14.9
	3H	14.6	15.7	14.9	16.0	16.3	14.8	16.0	15.2	16.3	16.6
	4H	15.3	16.3	15.6	16.7	17.0	15.6	16.6	16.0	17.0	17.3
	6H	15.8	16.7	16.2	17.1	17.4	16.2	17.2	16.6	17.5	17.9
	8H	16.0	16.8	16.4	17.2	17.6	16.5	17.3	16.9	17.7	18.1
	12H	16.1	16.9	16.5	17.3	17.7	16.7	17.5	17.1	17.9	18.3
8H	4H	15.5	16.4	15.9	16.8	17.2	15.8	16.7	16.2	17.1	17.4
	6H	16.2	16.9	16.6	17.3	17.7	16.6	17.3	17.0	17.7	18.1
	8H	16.4	17.1	16.9	17.5	18.0	16.9	17.6	17.4	18.0	18.4
	12H	16.6	17.2	17.1	17.6	18.1	17.2	17.8	17.7	18.2	18.7
12H	4H	15.5	16.4	16.0	16.7	17.1	15.8	16.6	16.2	17.0	17.4
	6H	16.2	16.9	16.7	17.3	17.8	16.6	17.3	17.1	17.7	18.1
	8H	16.5	17.1	17.0	17.5	18.0	17.0	17.6	17.5	18.0	18.5
Variations with the observer position at spacings:											
S = 1.0H	+ 0.2 / - 0.2					+ 0.1 / - 0.2					
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					

CIE Pub.117, 2778 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.5)

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:26 November 2020

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:7.250m [K=1.0000]  
Remarks:

**UTILIZATION FACTORS TABLE**

Test:U:239.96V I:0.1139A P:24.821W PF:0.9085 Freq:50.09Hz Lamp Flux:2778.09x1 lm		
NAME: BAY-KON_1195 x 295_THREDBO WHITE_YPP VL2 2MM HE_250x150	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

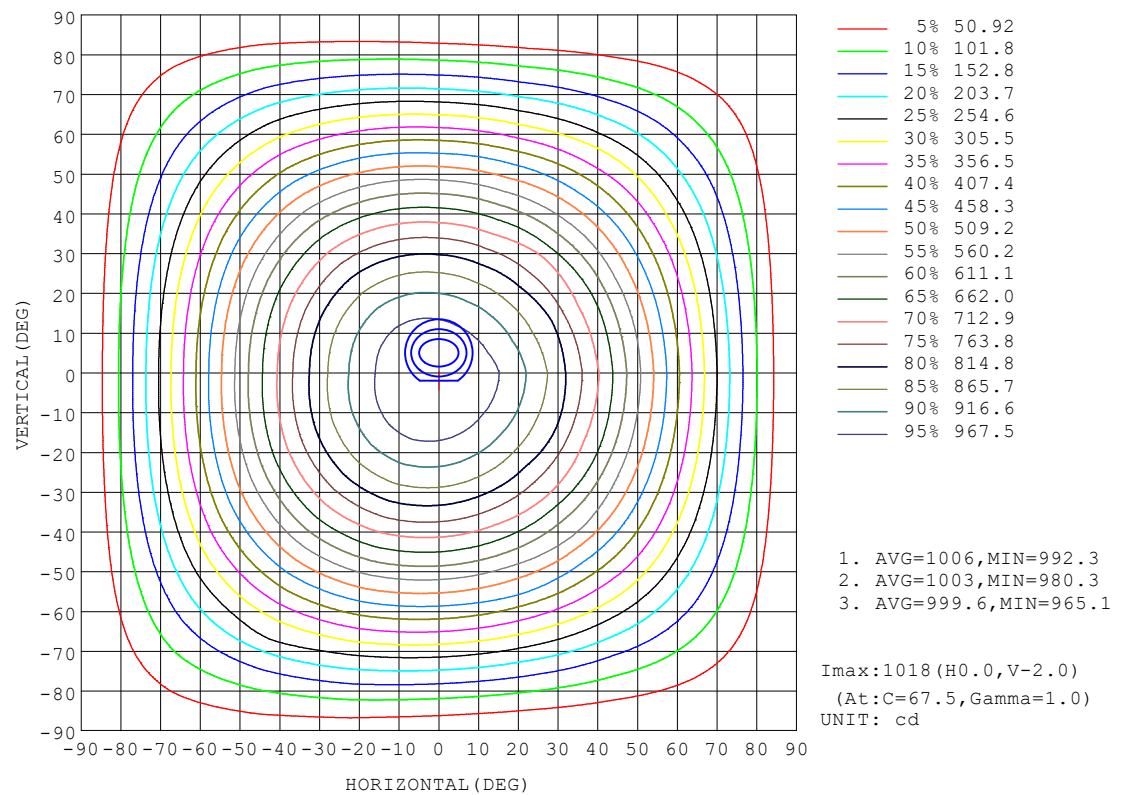
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) k(RI) x RCR = 5									
k = 0.60	58	47	40	57	46	39	56	46	39	33
0.80	68	57	49	67	56	49	65	55	49	42
1.00	76	65	58	75	65	58	73	66	57	50
1.25	83	73	66	82	72	66	79	71	65	58
1.50	88	79	72	87	78	71	84	76	70	63
2.00	95	87	80	93	86	80	90	83	78	70
2.50	99	91	85	97	90	84	93	87	83	74
3.00	102	96	90	100	94	89	96	91	87	78
4.00	106	101	96	104	99	95	100	96	92	83
5.00	109	104	100	106	102	98	102	98	95	86
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:26 November 2020

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:7.250m [K=1.0000]  
Remarks:

**ISOCANDELA DIAGRAM**

Test:U:239.96V I:0.1139A P:24.821W PF:0.9085 Freq:50.09Hz Lamp Flux:2778.09x1 lm		
NAME: BAY-KON_1195 x 295_THREDBO WHITE_YPP VL2 2MM HE_250mm_LK	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:



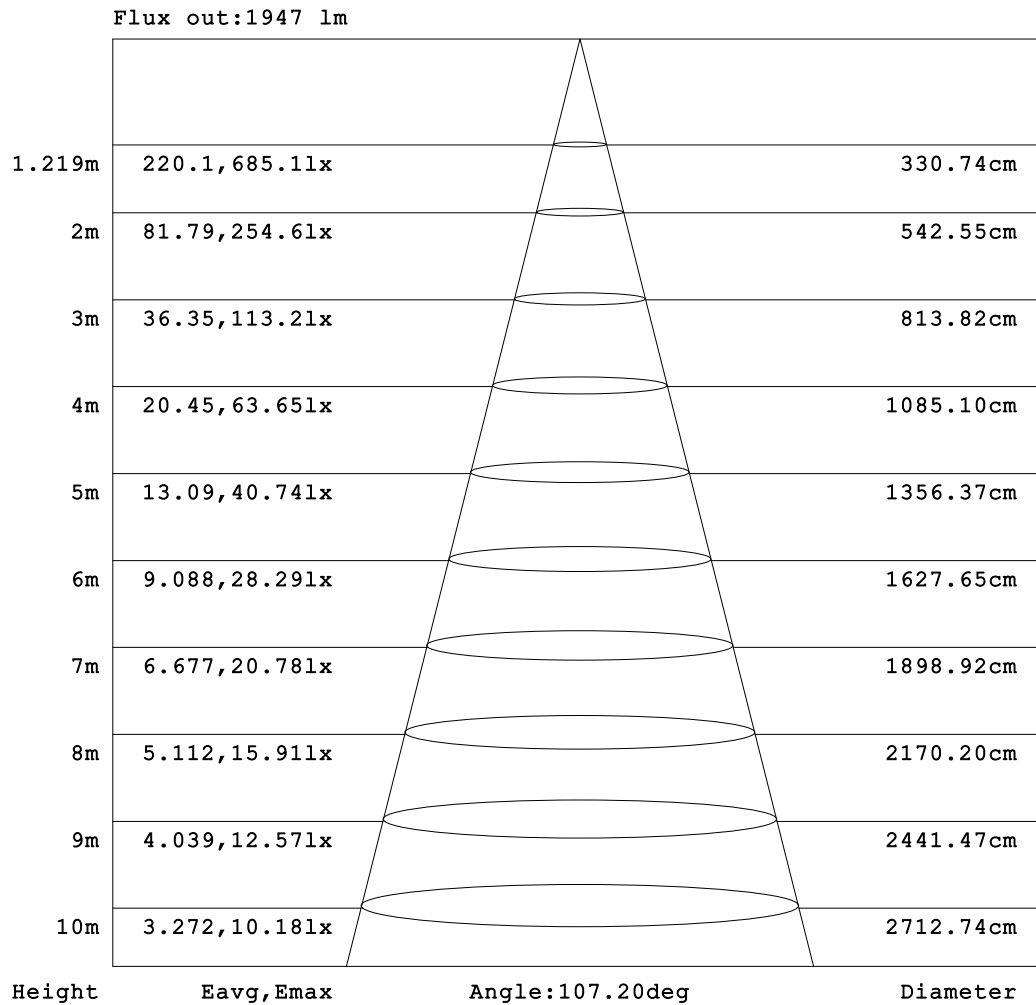
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:26 November 2020

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:7.250m [K=1.0000]  
Remarks:



**AAI Figure**

Test:U:239.96V I:0.1139A P:24.821W PF:0.9085 Freq:50.09Hz Lamp Flux:2778.09x1 lm		
NAME: BAY-KON_1195 x 295_THREDBO WHITE_YPP VL2 2MM HE_T500mLX	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:



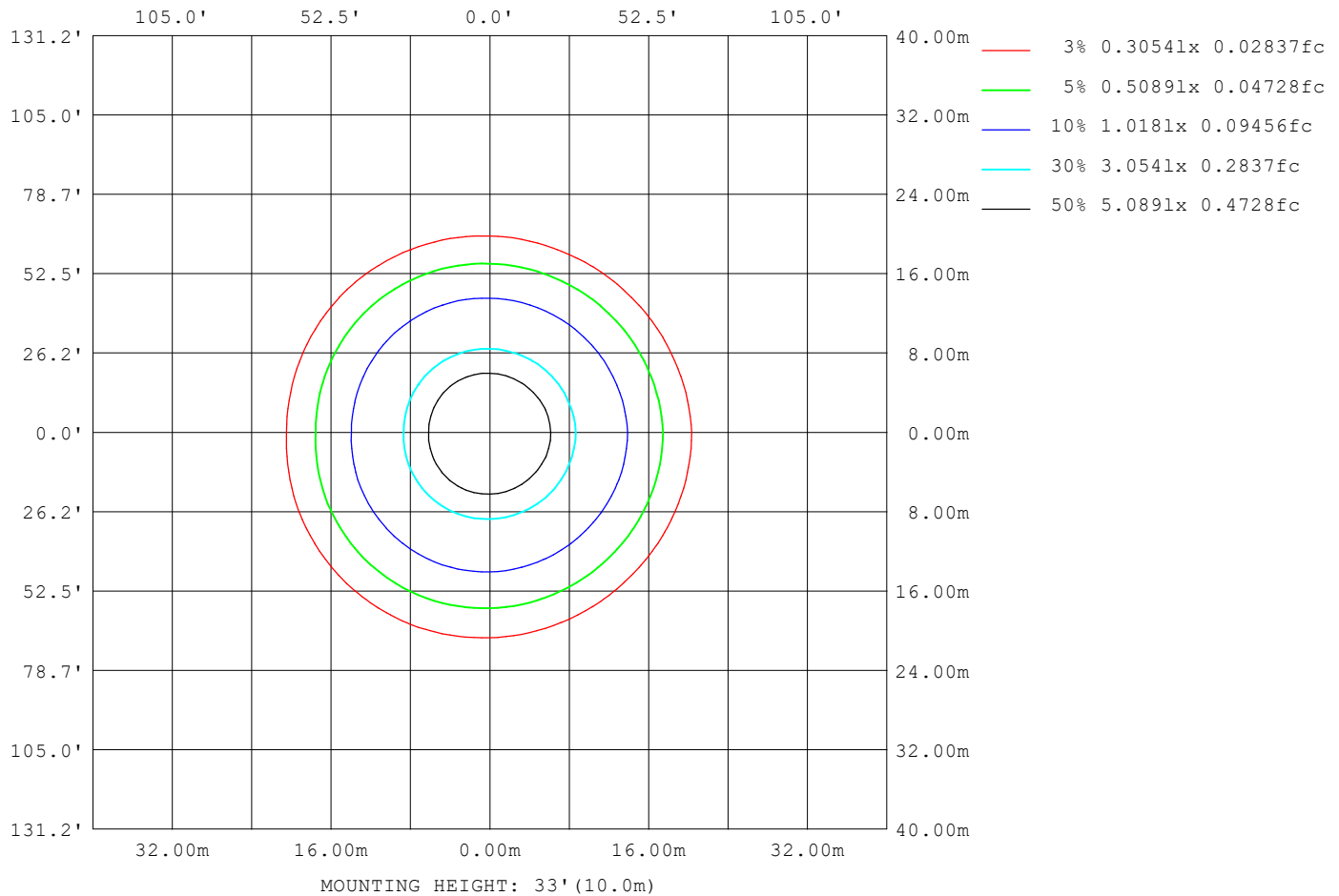
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:26 November 2020

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:7.250m [K=1.0000]  
Remarks:

**ISOLUX DIAGRAM**

Test:U:239.96V I:0.1139A P:24.821W PF:0.9085 Freq:50.09Hz Lamp Flux:2778.09x1 lm		
NAME: BAY-KON_1195 x 295_THREDBO WHITE_YPP VL2 2MM HE_250mm_LK	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:26 November 2020

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:7.250m [K=1.0000]  
Remarks:

**LED Avg.L Report**

Test:U:239.96V I:0.1139A P:24.821W PF:0.9085 Freq:50.09Hz Lamp Flux:2778.09x1 lm		
NAME: BAY-KON_1195 x 295_THREDBO WHITE_YPP VL2 2MM HE_T528x51K	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

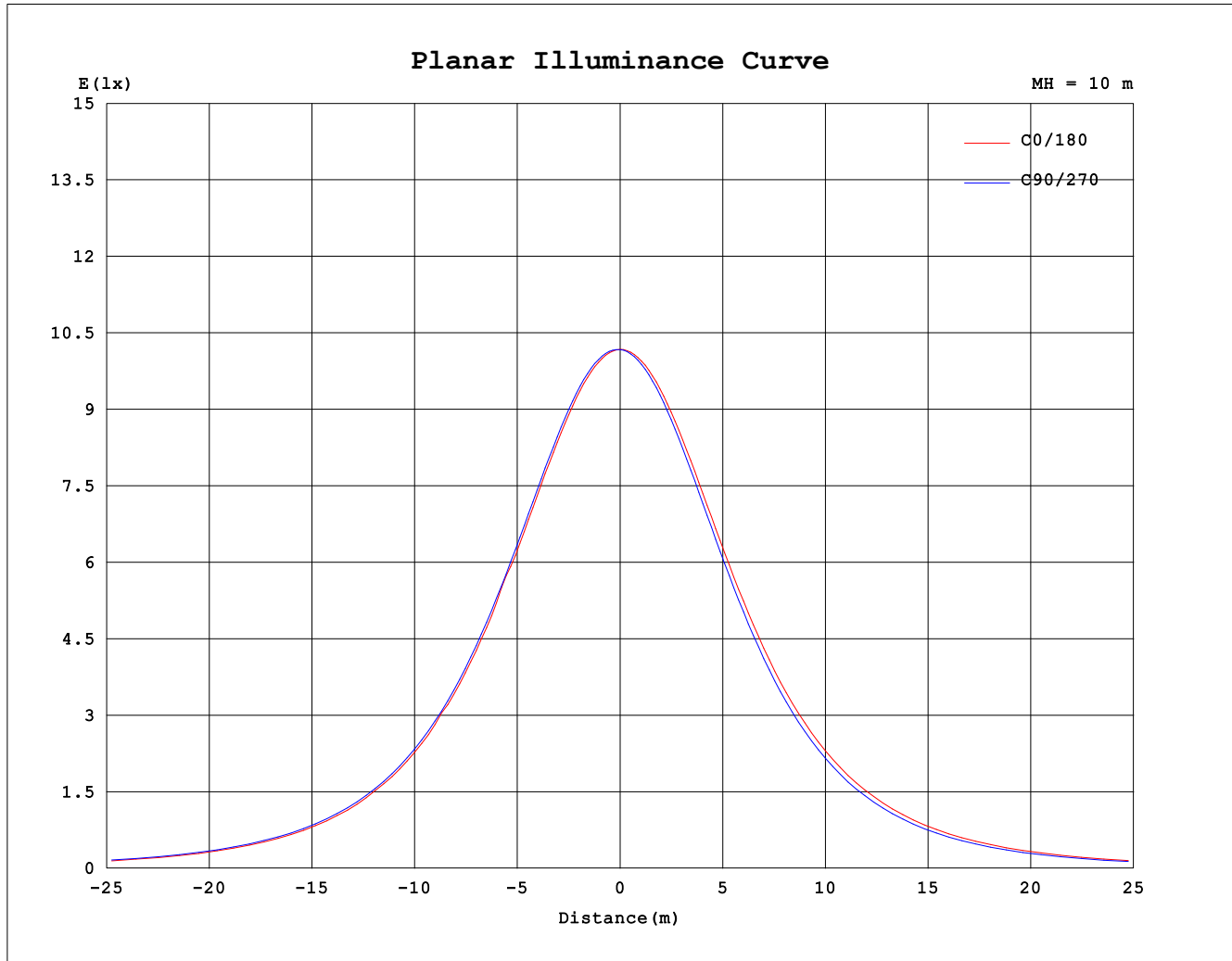
AvgL	cd/m2
L_0~180 (65) av	2280
L_0~180 (75) av	1966
L_0~180 (85) av	1451
L_90~270 (65) av	2219
L_90~270 (75) av	1923
L_90~270 (85) av	1523
L_45 (65) av	2267
L_45 (75) av	1990
L_45 (85) av	1553

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:26 November 2020

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:7.250m [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: 26 November 2020

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity: 65.0%  
Test Distance: 7.250m [K=1.0000]  
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

```