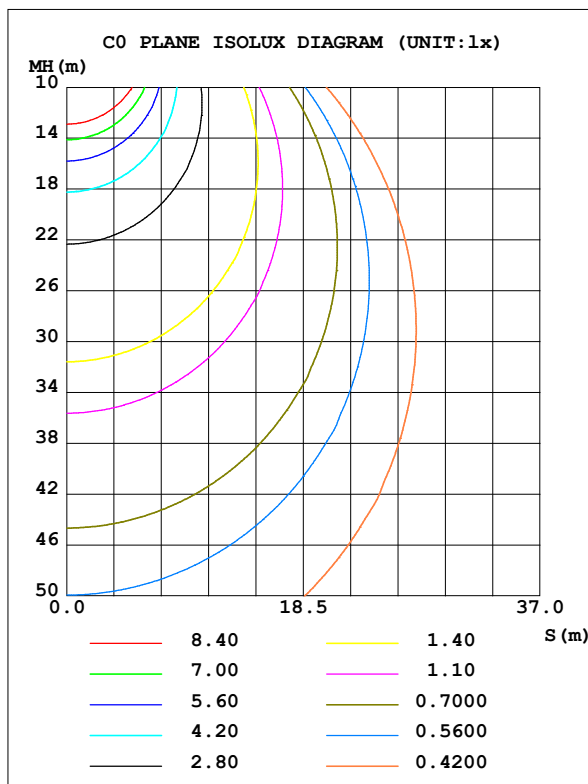
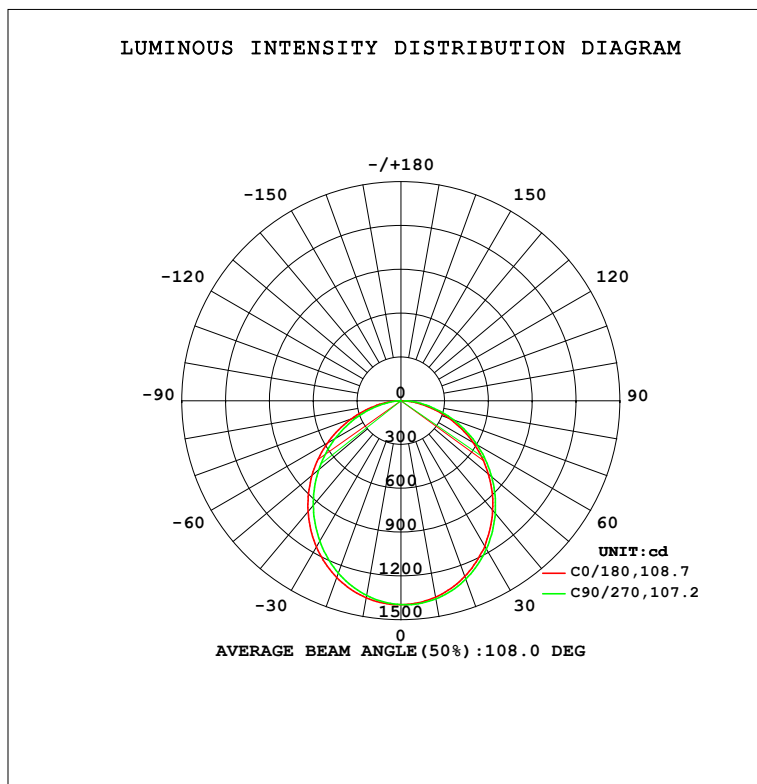


**LUMINAIRE PHOTOMETRIC TEST REPORT**

Test:U:239.98V I:0.1668A P:35.959W PF:0.8983 Freq:50.09Hz Lamp Flux:3809.78x1 lm		
NAME: BAY-KON_1195 x 295_THREDBO WHITE_YPP VL2 2MM HE_T520mLX	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 105.95 lm/W
4 x LIMOTek560mm 1300lm 840 HV ADV5		I <sub>max</sub> (cd)	1398	S/MH (C0/180)	1.24	
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.19	
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	3809.8	η UP,DN (C0-180)	0.0,51.6	
NOMINAL FLUX (lm)	3809.78	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,48.4	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25	
TEST VOLTAGE (V)	230	η down (%)	100.0	CIBSE SHR MAX	1.35	



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	1366	1367	1378	1381	1370	1368	1354	1348	0- 10	131.8	131.8	3.46,3.46
20	1280	1281	1300	1309	1288	1283	1255	1248	10- 20	375.0	506.8	13.3,13.3
30	1151	1146	1172	1187	1157	1149	1111	1104	20- 30	561.3	1068	28,28
40	977.7	983.0	1005	1025	989.9	980.0	934.5	927.5	30- 40	666.4	1735	45.5,45.5
50	783.0	779.7	811.9	834.6	796.0	784.6	735.9	727.9	40- 50	680.0	2415	63.4,63.4
60	570.6	567.3	601.9	625.1	583.4	572.3	523.9	515.1	50- 60	605.5	3020	79.3,79.3
70	349.1	347.9	382.9	405.5	360.8	355.8	307.7	298.7	60- 70	455.6	3476	91.2,91.2
80	140.8	143.6	175.5	192.9	150.9	149.1	115.1	105.6	70- 80	259.5	3735	98,98
90	2.648	2.529	20.66	28.96	3.745	3.814	3.081	3.194	80- 90	74.65	3810	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): 2078.6 lm

%lum = 54.6%

%lamp = 54.6%

Conical surface Flux(120deg): 3020 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:

```

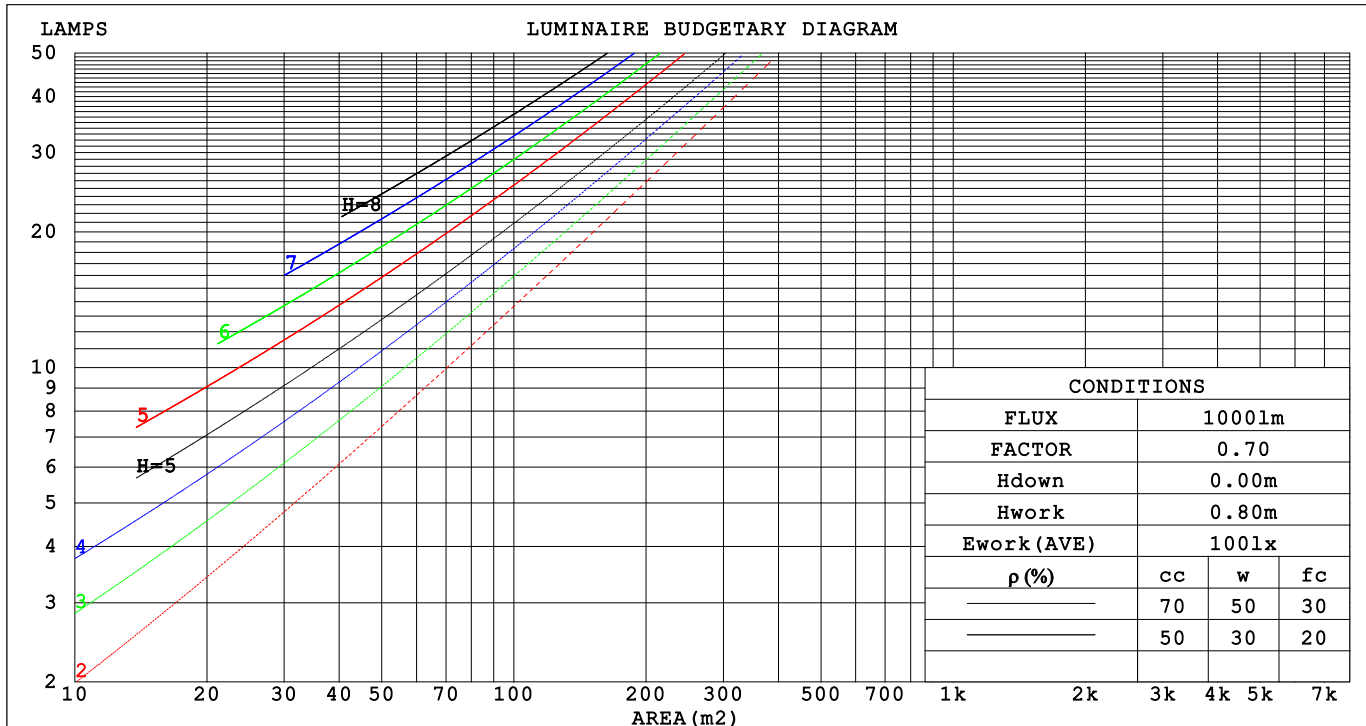
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

```

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

Test:U:239.98V I:0.1668A P:35.959W PF:0.8983 Freq:50.09Hz Lamp Flux:3809.78x1 lm		
NAME: BAY-KON_1195 x 295_THREDBO WHITE_YPP VL2 2MM HE_T520x1xK	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:239.98V I:0.1668A P:35.959W PF:0.8983 Freq:50.09Hz Lamp Flux:3809.78x1 lm		
NAME: BAY-KON_1195 x 295_THREDBO WHITE_YPP VL2 2MM HE_T500mLX	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	.289	.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	.224	.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:239.98V I:0.1668A P:35.959W PF:0.8983 Freq:50.09Hz Lamp Flux:3809.78x1 lm											
NAME: BAY-KON_1195 x 295_THREDBO WHITE_YPP VL2 2MM HE_T520mLX								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	14.1	12.8	14.3	14.5
	3H	13.8	15.2	14.1	15.5	15.7	14.1	15.5	14.4	15.7	16.0
	4H	14.4	15.7	14.7	16.0	16.2	14.7	16.1	15.1	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	15.0	16.1	15.3	16.4	16.7	15.6	16.7	15.9	17.0	17.3
4H	2H	13.0	14.3	13.3	14.5	14.8	13.1	14.4	13.4	14.7	14.9
	3H	14.6	15.8	15.0	16.1	16.4	14.8	16.0	15.2	16.3	16.6
	4H	15.3	16.4	15.7	16.7	17.0	15.6	16.7	16.0	17.0	17.3
	6H	15.8	16.7	16.2	17.1	17.5	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	16.0	16.8	17.2	15.8	16.7	16.2	17.1	17.5
	6H	16.2	16.9	16.6	17.3	17.8	16.6	17.3	17.0	17.7	18.2
	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	15.6	16.4	16.0	16.8	17.2	15.8	16.6	16.3	17.0	17.4
	6H	16.3	16.9	16.7	17.3	17.8	16.6	17.3	17.1	17.7	18.2
	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					+ 0.2 / - 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, 3810 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 4.6)

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:239.98V I:0.1668A P:35.959W PF:0.8983 Freq:50.09Hz Lamp Flux:3809.78x1 lm		
NAME: BAY-KON_1195 x 295_THREDBO WHITE_YPP VL2 2MM HE_T520x250x150		WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

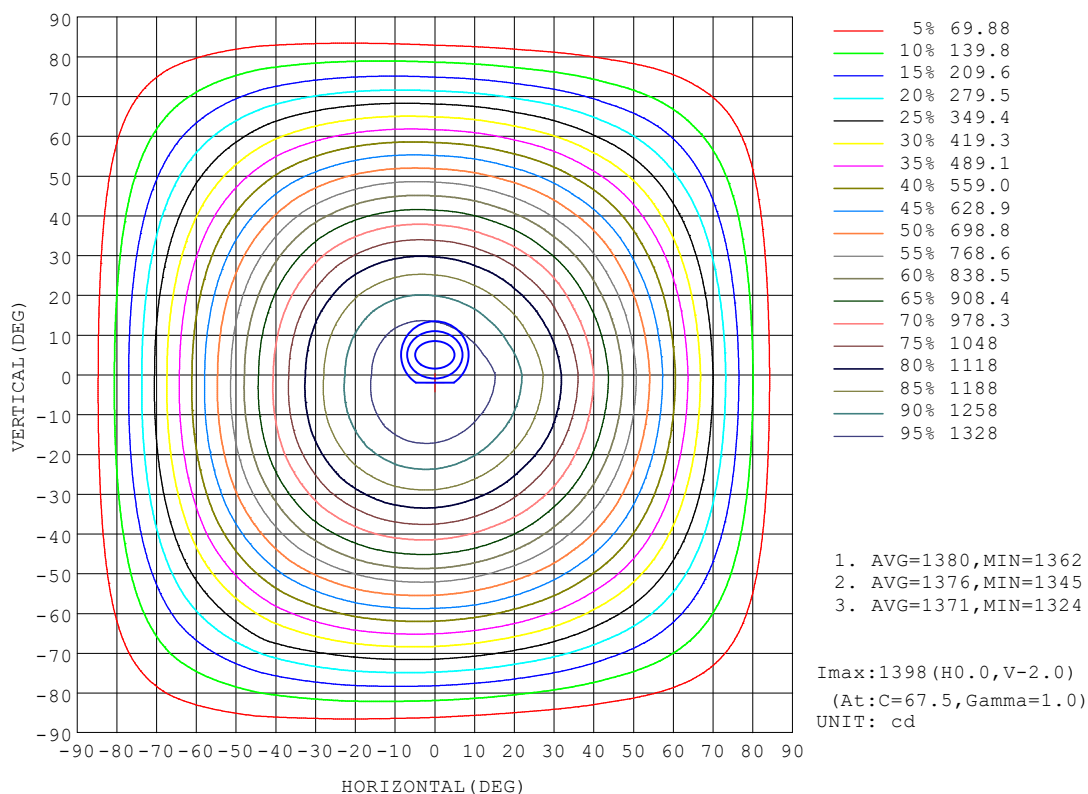
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	58	47	40	57	46	39	56	46	39	33
0.80	68	57	49	67	56	49	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

$\gamma$  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:

### ISOCANDELA DIAGRAM

Test:U:239.98V I:0.1668A P:35.959W PF:0.8983 Freq:50.09Hz Lamp Flux:3809.78x1 lm		
NAME: BAY-KON_1195 x 295_THREDBO WHITE_YPP VL2 2MM HE_T520A1_K	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:



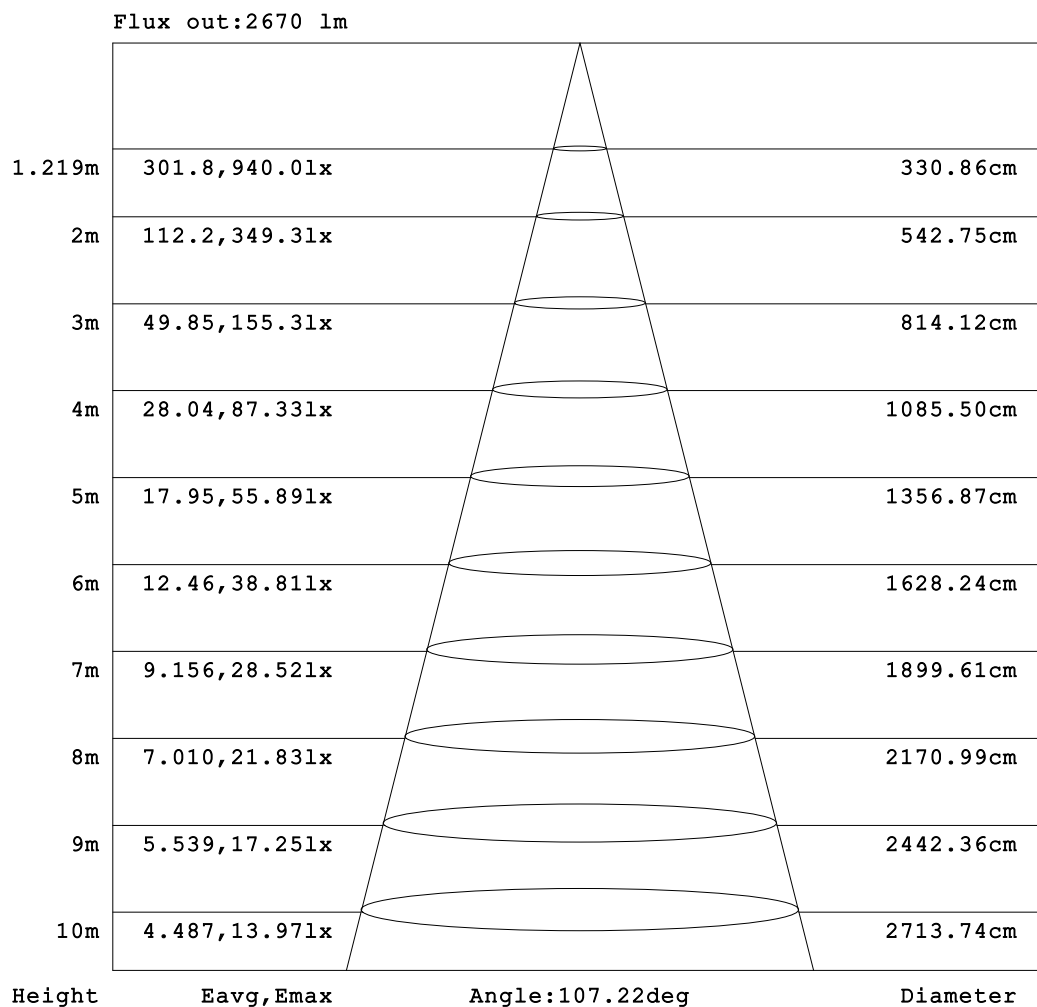
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:26 November 2020

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:



**AAI Figure**

Test:U:239.98V I:0.1668A P:35.959W PF:0.8983 Freq:50.09Hz Lamp Flux:3809.78x1 lm		
NAME: BAY-KON_1195 x 295_THREDBO WHITE_YPP VL2 2MM HE_T530mLX	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:



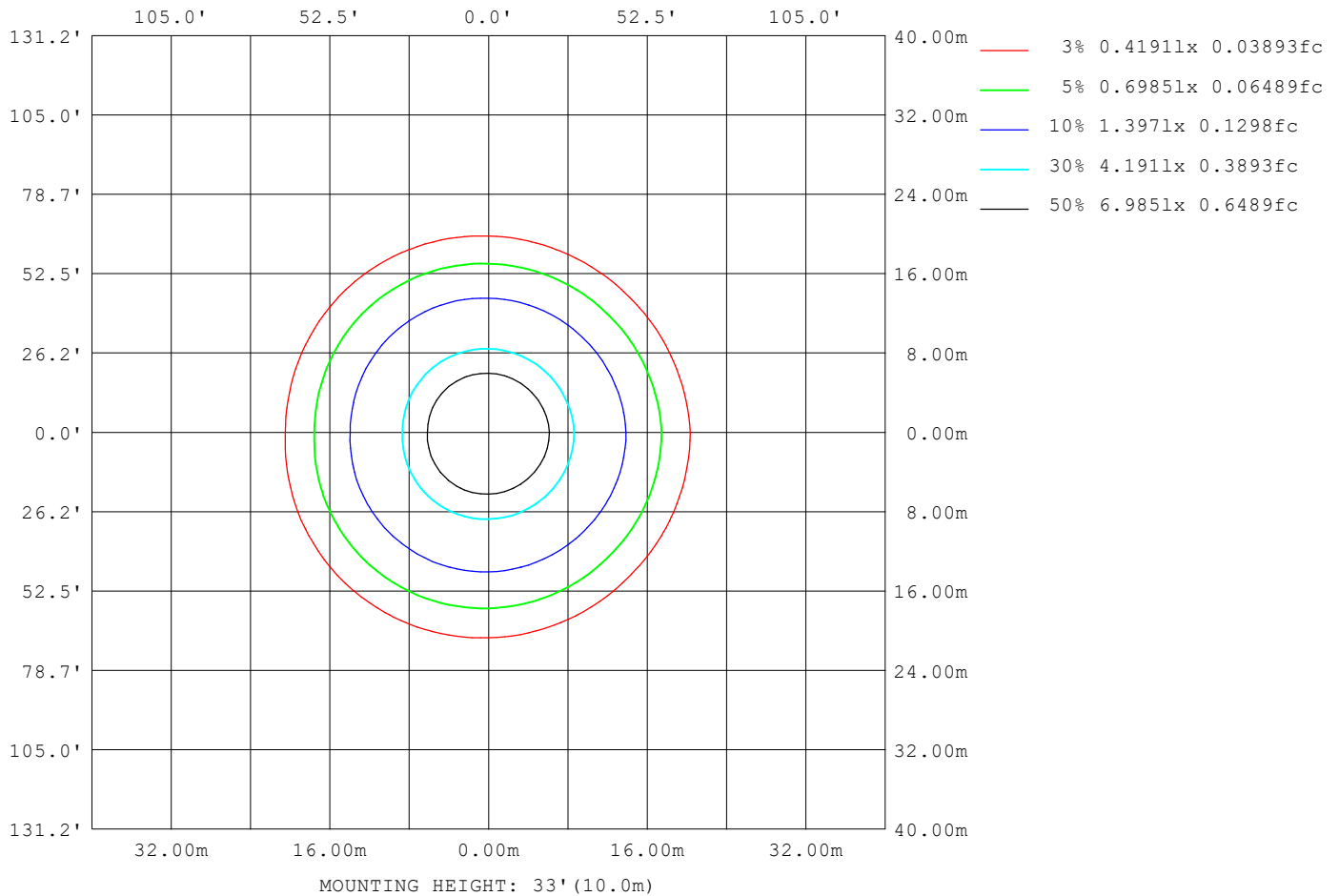
**Note:**The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:239.98V I:0.1668A P:35.959W PF:0.8983 Freq:50.09Hz Lamp Flux:3809.78x1 lm		
NAME: BAY-KON_1195 x 295_THREDBO WHITE_YPP VL2 2MM HE_T530mLX	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:

**LED Avg.L Report**

Test:U:239.98V I:0.1668A P:35.959W PF:0.8983 Freq:50.09Hz Lamp Flux:3809.78x1 lm		
NAME: BAY-KON_1195 x 295_THREDBO WHITE_YPP VL2 2MM HE_T528x5LK	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

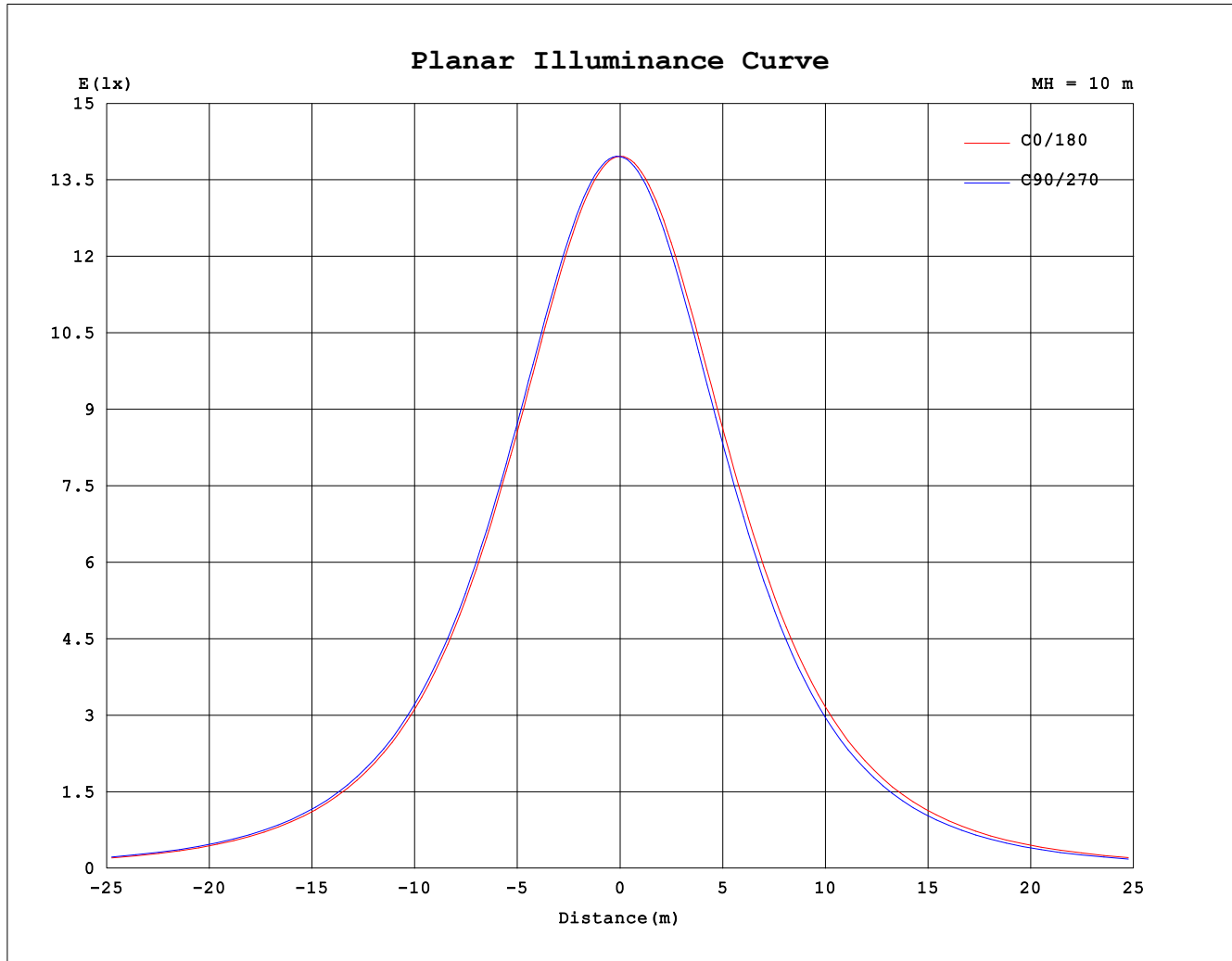
AvgL	cd/m2
L_0~180 (65) av	3128
L_0~180 (75) av	2697
L_0~180 (85) av	2001
L_90~270 (65) av	3046
L_90~270 (75) av	2637
L_90~270 (85) av	2079
L_45 (65) av	3094
L_45 (75) av	2693
L_45 (85) av	2125

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:

```