

Report No.: 20230811

Test Time: 2023/8/14 09:33

## Luminaire Property

Luminaire Manufacturer: ACOLYTE

Luminaire Category: CHANNEL

Luminaire Description: CHAS23BKRB90SWS2203.030

Lamp Description: BLACK LENS

Luminous Width (mm): 21

Voltage: 24.0 V

Power: 4.70 W

Luminous Length (mm): 500

Luminous Height (mm): 18.2

Current: 0.196 A

Power Factor: 1.000

## Photometric Results

CIE Class: Direct

Measurement Flux: 87.1 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(10%,50%): H143.3,H82.5

Vertical Diffuse Angle(10%,50%): V135.1,V70.4

Luminaire Efficacy Rating (LER): 19

Max. Intensity: 48.94 cd

Total Rated Lamp Lumens: 87.1 lm

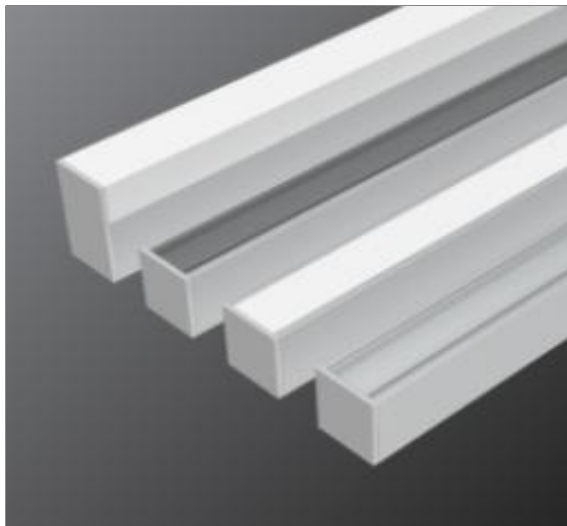
Efficiency: 100%

Upward Ratio: 1%

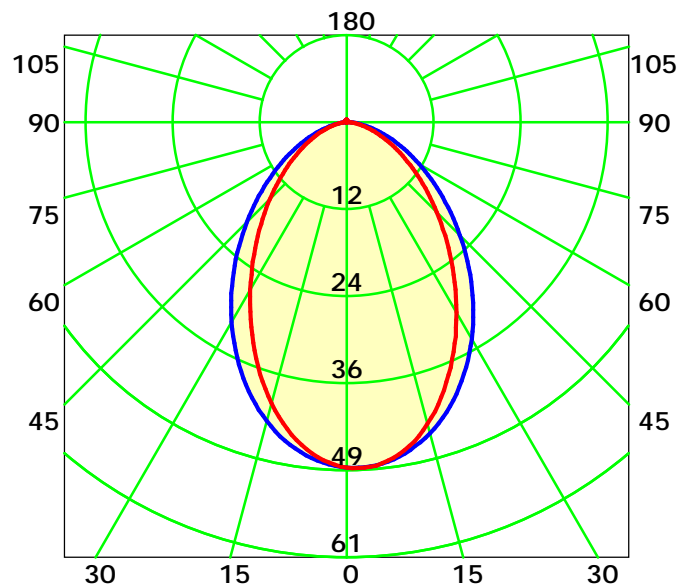
Central Intensity: 48.73 cd

Pos of Max. Intensity: H150 V1

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 76.5° Unit: cd

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Nick

Gamma Plane (°):0.0-180.0: 1.0

Test Device: GPM-1800B

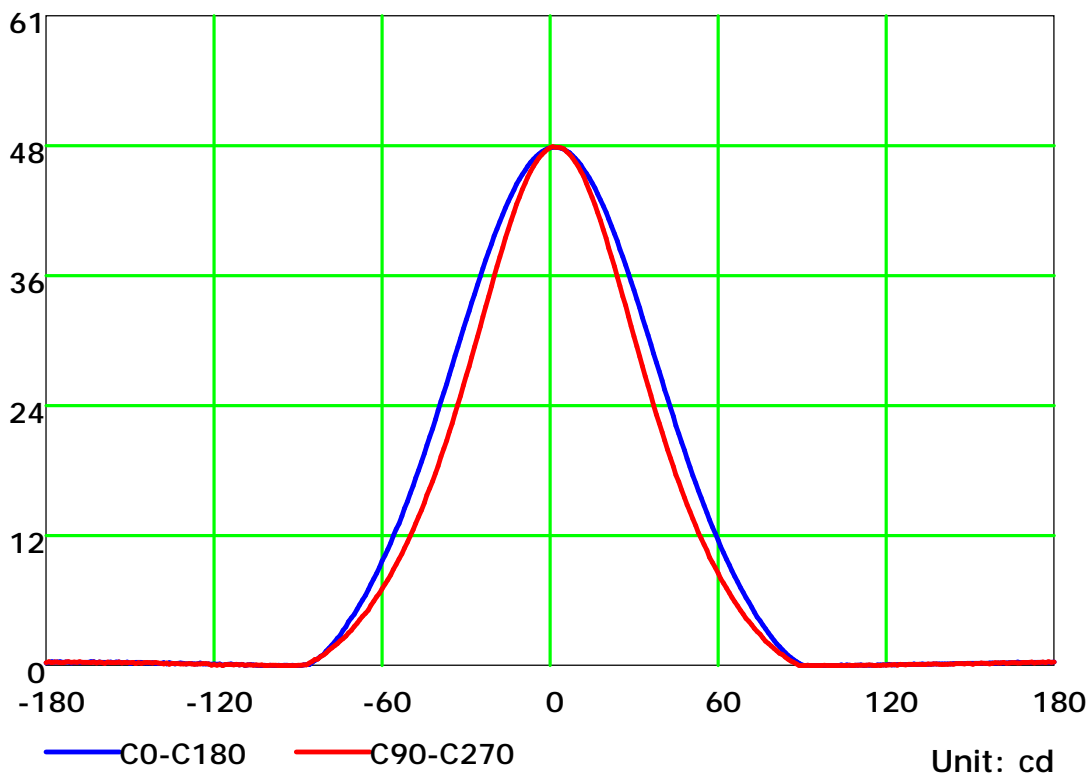
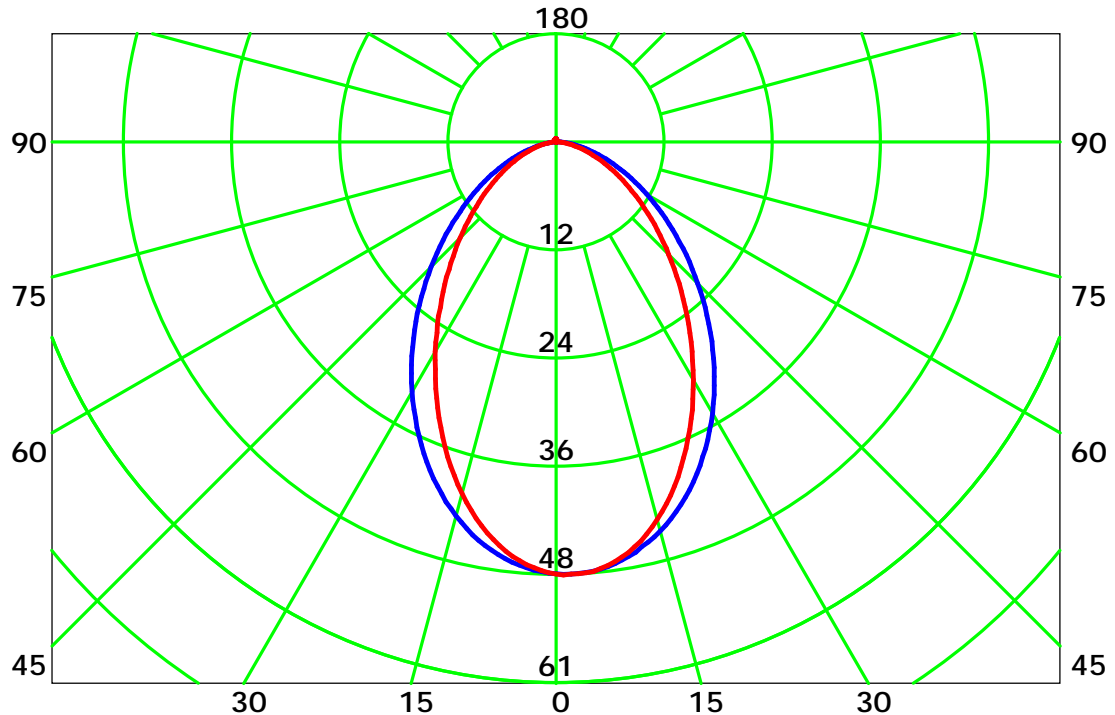
Distance: 9.028 m

Humidity: 60%

Inspector:



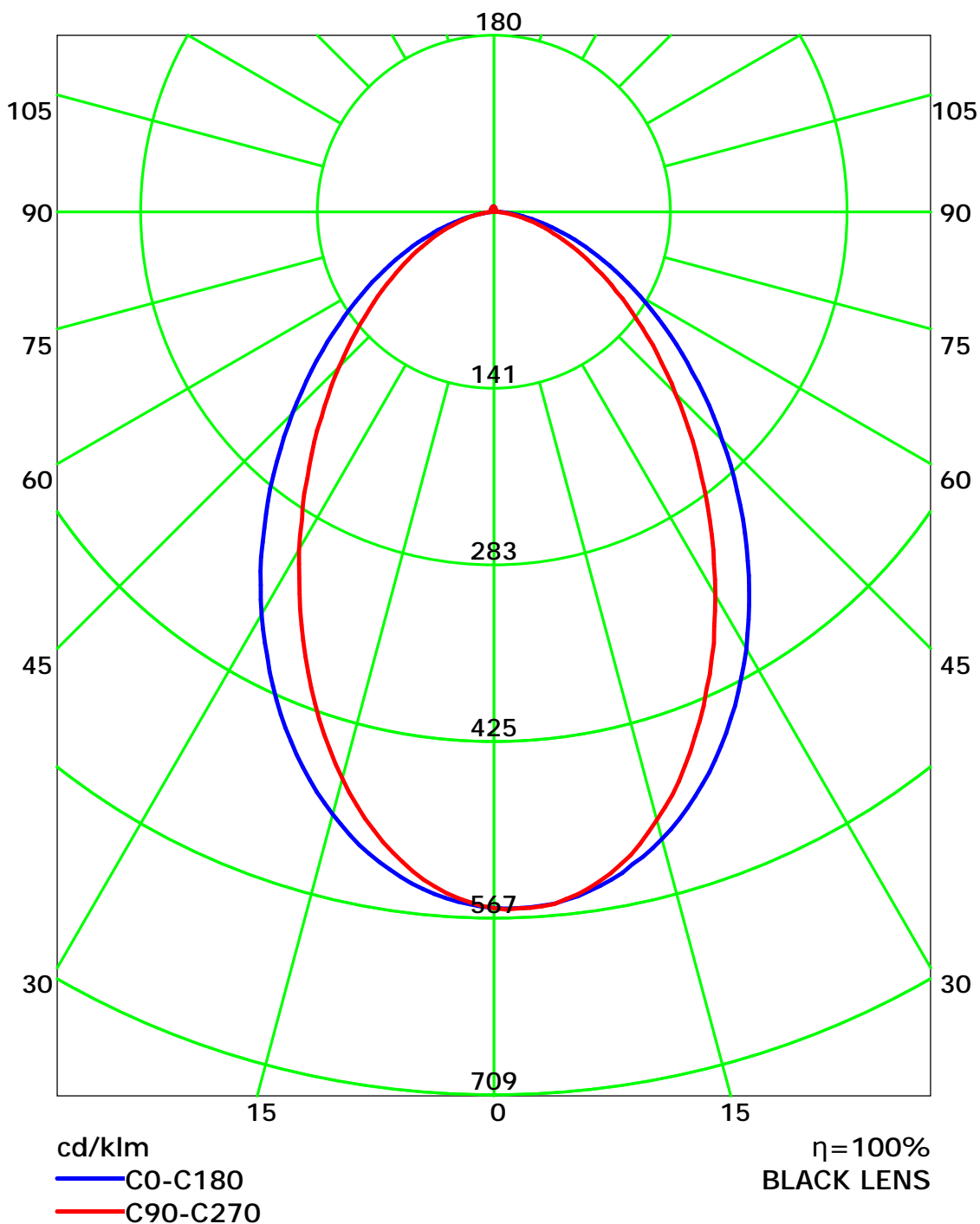
## Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: Nick

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 9.028 m  
Humidity: 60%  
Inspector:

## Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: Nick

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 9.028 m  
Humidity: 60%  
Inspector:

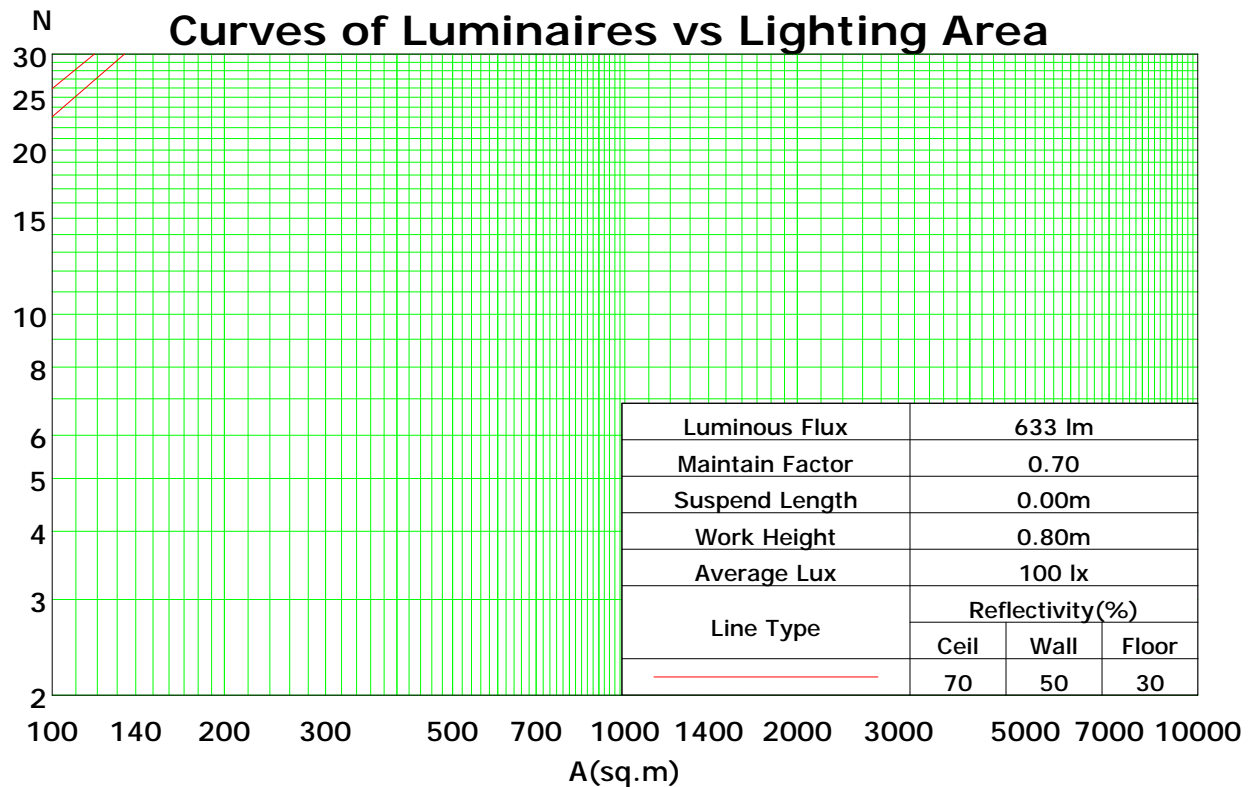
## Coefficients Of Utilization - Zonal Cavity Method

RC	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.3	0.3	0.3	0.1	0.1	0.1	0
RW	0.7	0.5	0.3	0.1	0.7	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0
RCR	RF = 0.2																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1	110	106	103	99	108	104	101	98	100	97	94	96	93	91	92	90	89	87
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75
3	94	85	78	72	91	83	76	71	80	74	70	77	73	69	75	71	67	65
4	87	76	68	63	85	75	68	62	72	66	61	70	65	60	68	63	59	57
5	81	69	61	55	79	68	60	55	66	59	54	64	58	54	62	57	53	51
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	46
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41
8	66	53	45	40	64	52	45	40	51	44	40	50	44	39	49	43	39	37
9	62	49	42	37	60	49	41	36	47	41	36	46	40	36	45	40	36	34
10	58	46	38	34	57	45	38	33	44	38	33	43	37	33	42	37	33	31

Spacing Criteria (0-180): 1.07

Spacing Criteria (90-270): 0.96

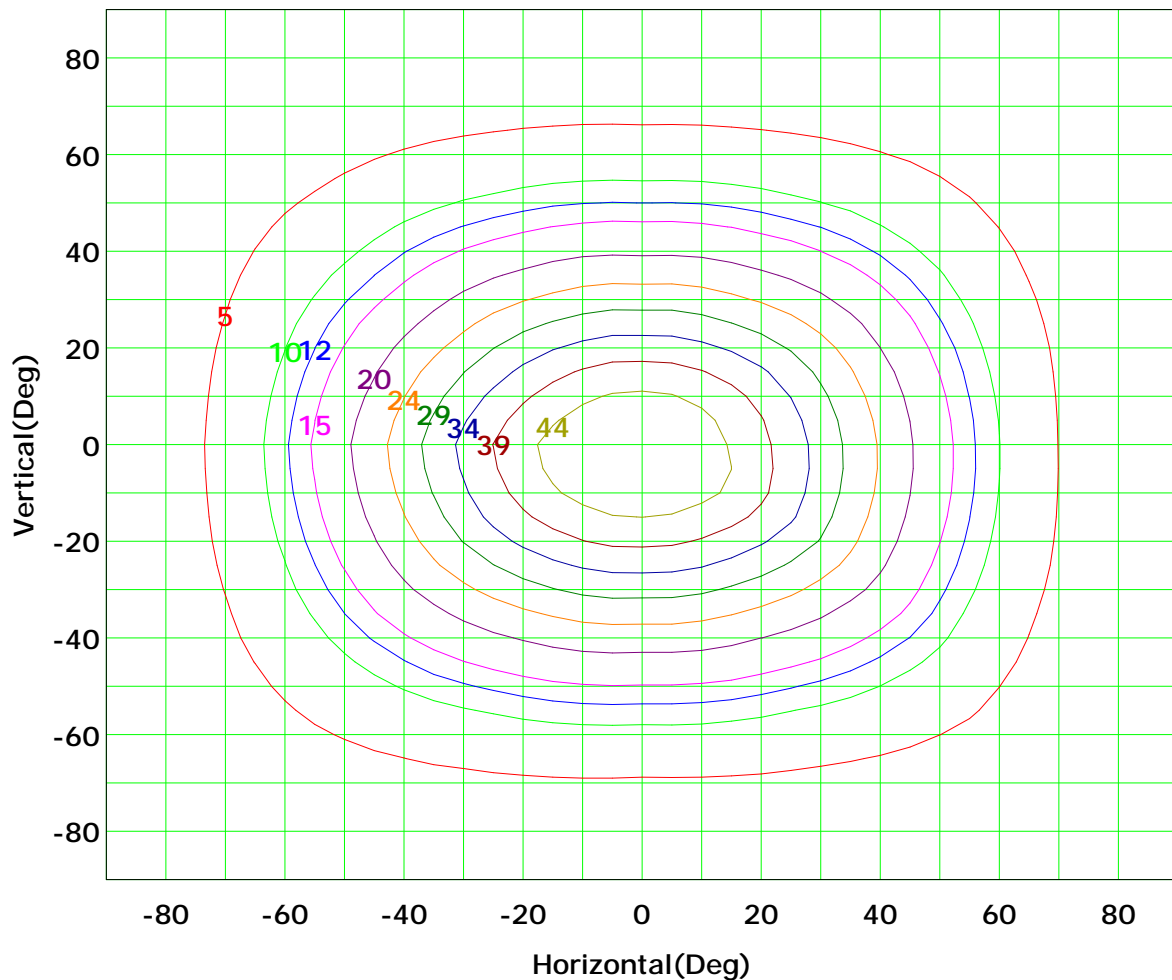
Spacing Criteria (Diagonal): 1.09



C Plane (°): 0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: Nick

Gamma Plane (°): 0.0-180.0: 1.0  
Test Device: GPM-1800B  
Distance: 9.028 m  
Humidity: 60%  
Inspector:

## Isocandela (rectangle)



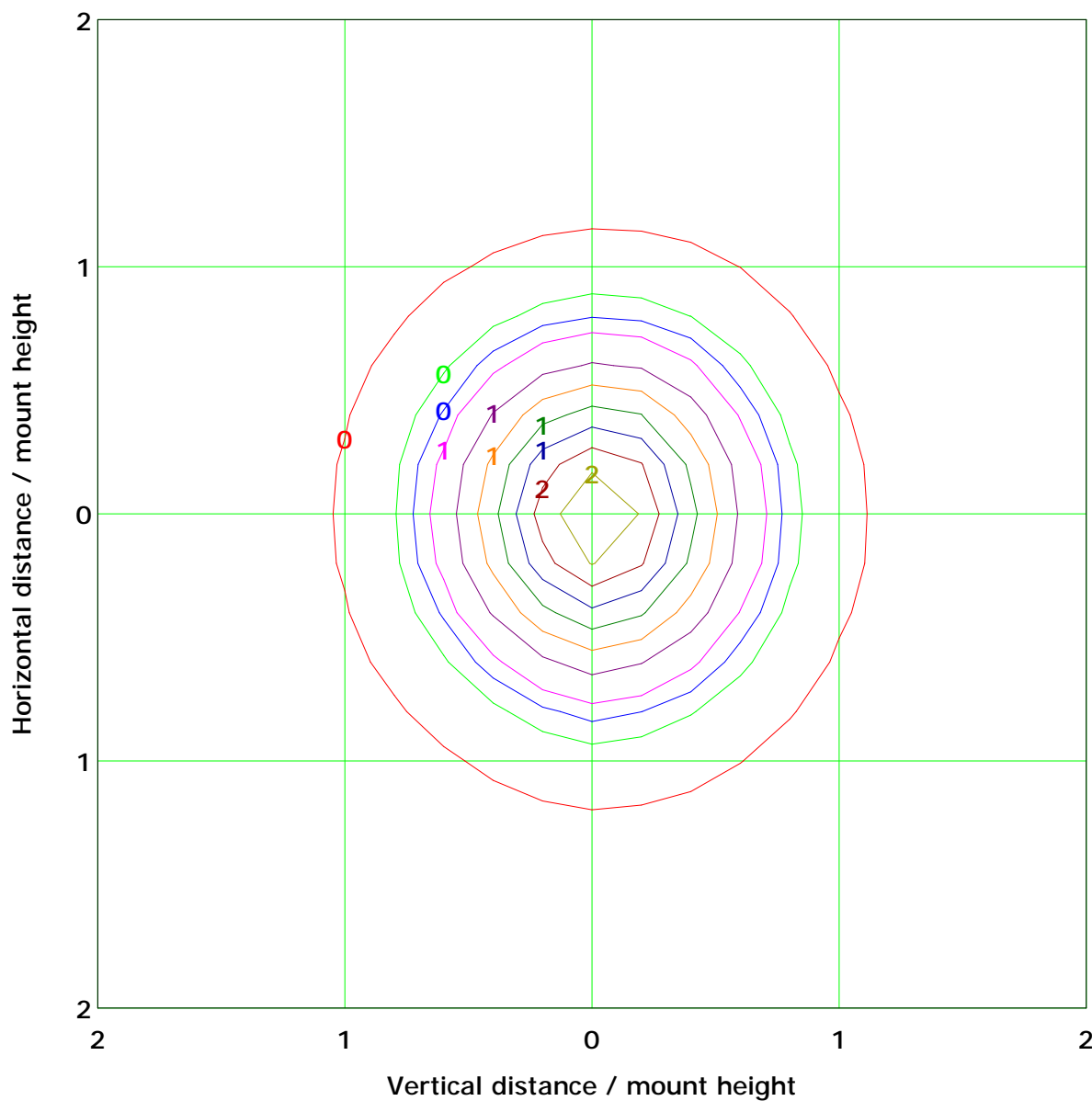
I<sub>max</sub> (100%): 49 cd

( 10%):	5 cd	( 20%):	10 cd
( 25%):	12 cd	( 30%):	15 cd
( 40%):	20 cd	( 50%):	24 cd
( 60%):	29 cd	( 70%):	34 cd
( 80%):	39 cd	( 90%):	44 cd

C Plane (°):0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: Nick

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 9.028 m  
Humidity: 60%  
Inspector:

## IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 2.0 lx

( 10%): 0.2 lx	( 20%): 0.4 lx
( 25%): 0.5 lx	( 30%): 0.6 lx
( 40%): 0.8 lx	( 50%): 1.0 lx
( 60%): 1.2 lx	( 70%): 1.4 lx
( 80%): 1.6 lx	( 90%): 1.8 lx

C Plane (°):0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: Nick

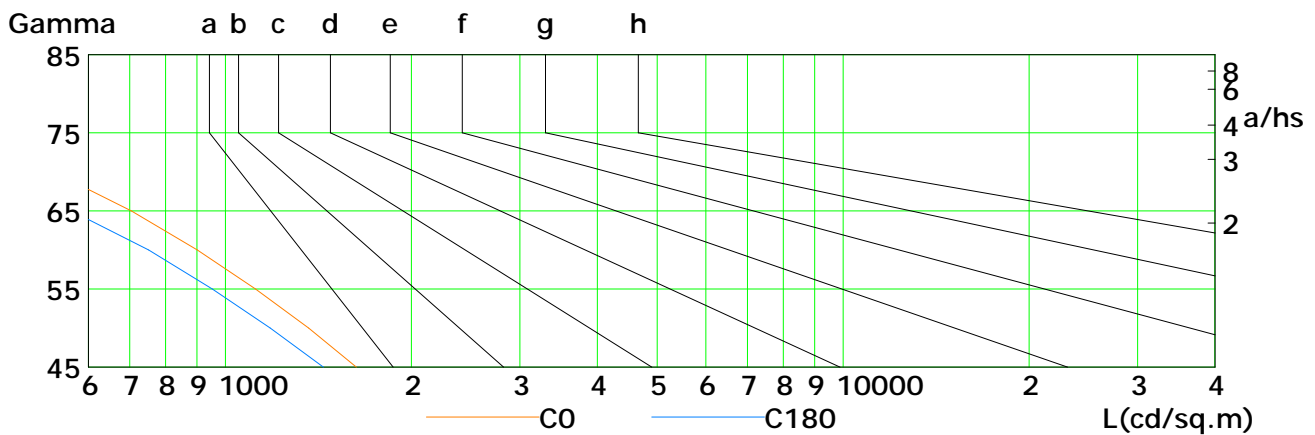
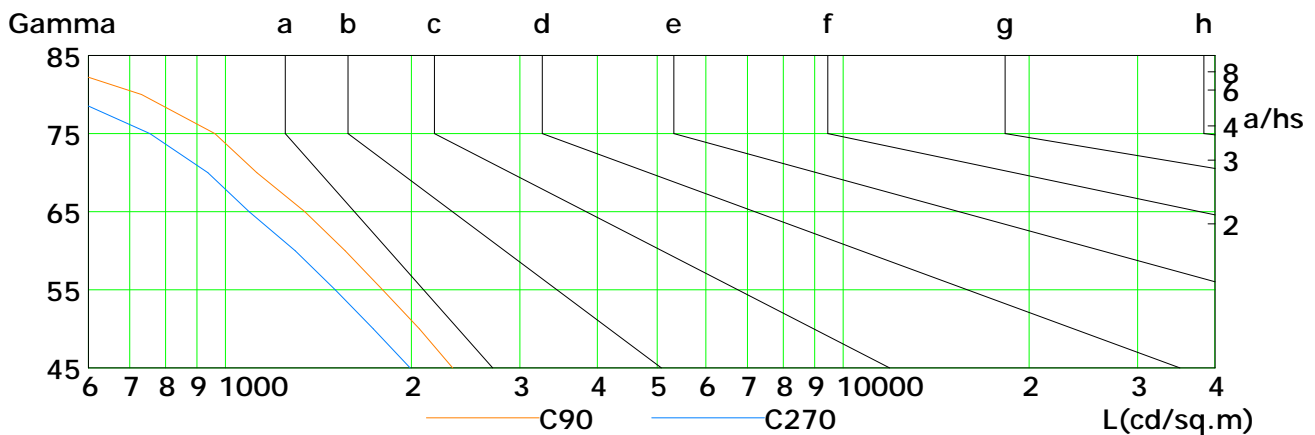
Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 9.028 m  
Humidity: 60%  
Inspector:



## Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300

a b c d e f g h

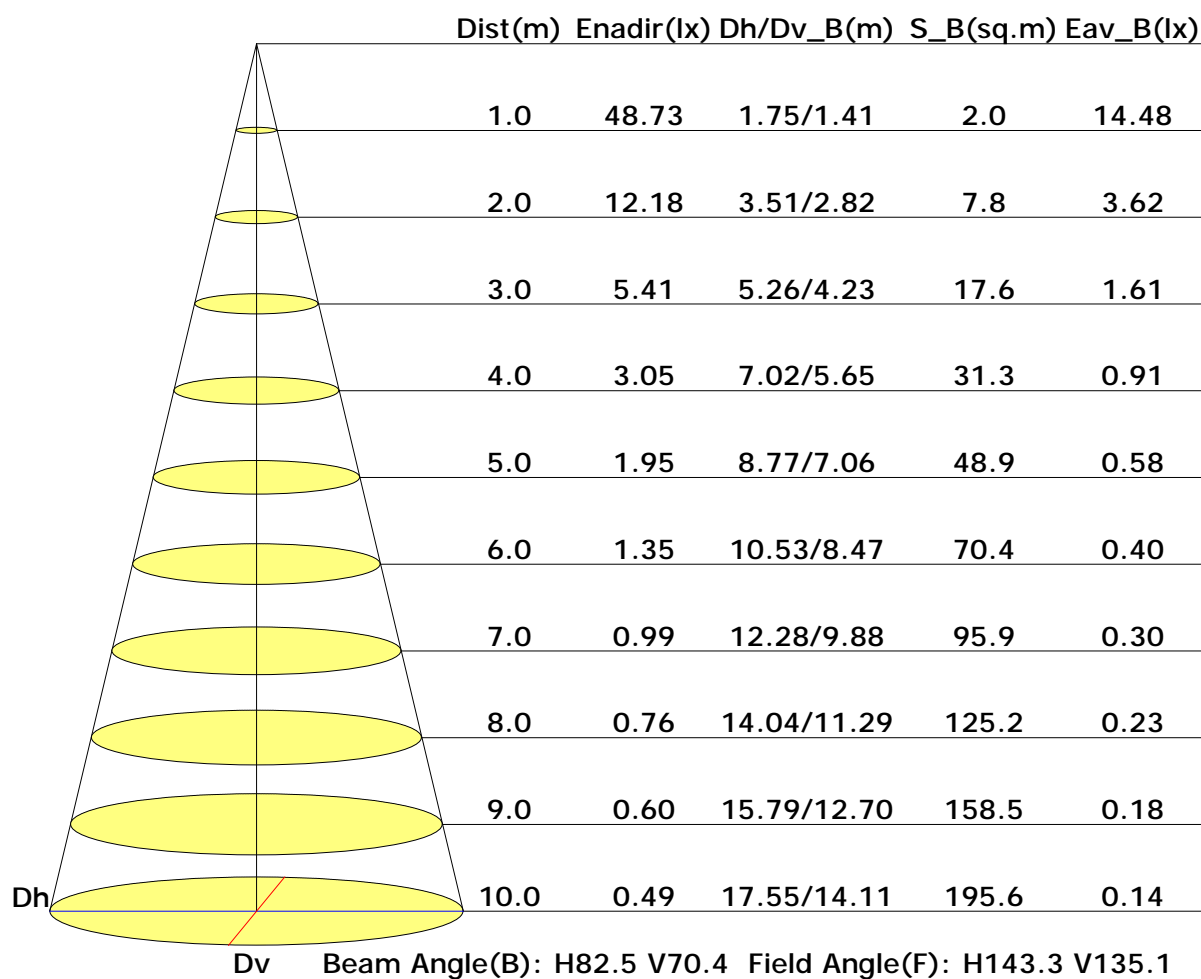


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	1630	1364	1119	900	705	527	367	221	99
C90	2333	2062	1798	1562	1344	1124	962	732	471
C180	1441	1182	953	751	564	398	247	127	31
C270	1992	1735	1506	1297	1093	937	755	546	309

C Plane (°):0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: Nick

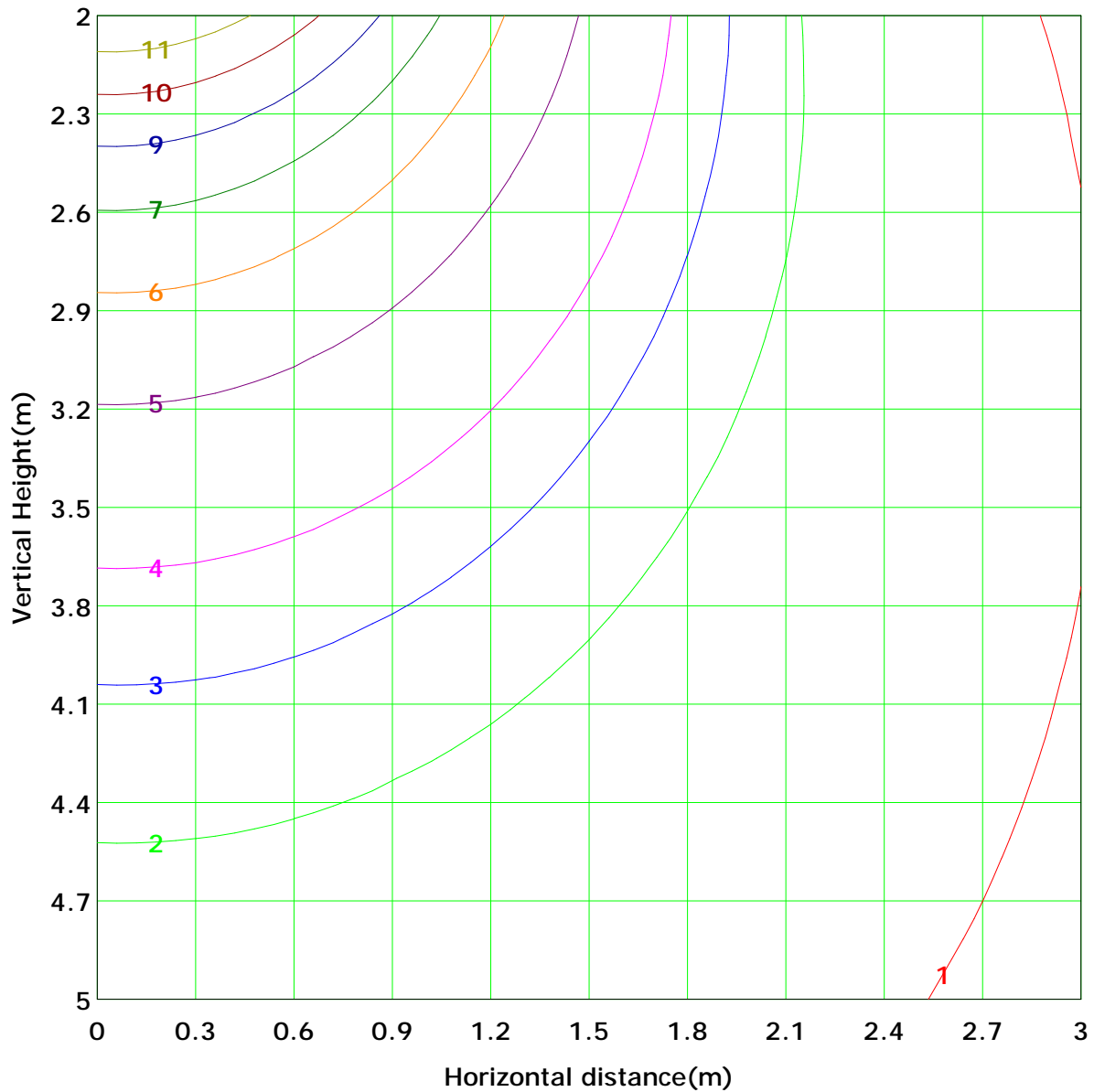
Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 9.028 m  
Humidity: 60%  
Inspector:

## Illuminance at a Distance





## Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 12.2 lx
( 10%): 1.2 lx	( 20%): 2.4 lx	( 30%): 3.7 lx
( 25%): 3.0 lx	( 40%): 4.9 lx	( 50%): 6.1 lx
( 60%): 7.3 lx	( 70%): 8.5 lx	( 90%): 11.0 lx
( 80%): 9.7 lx		

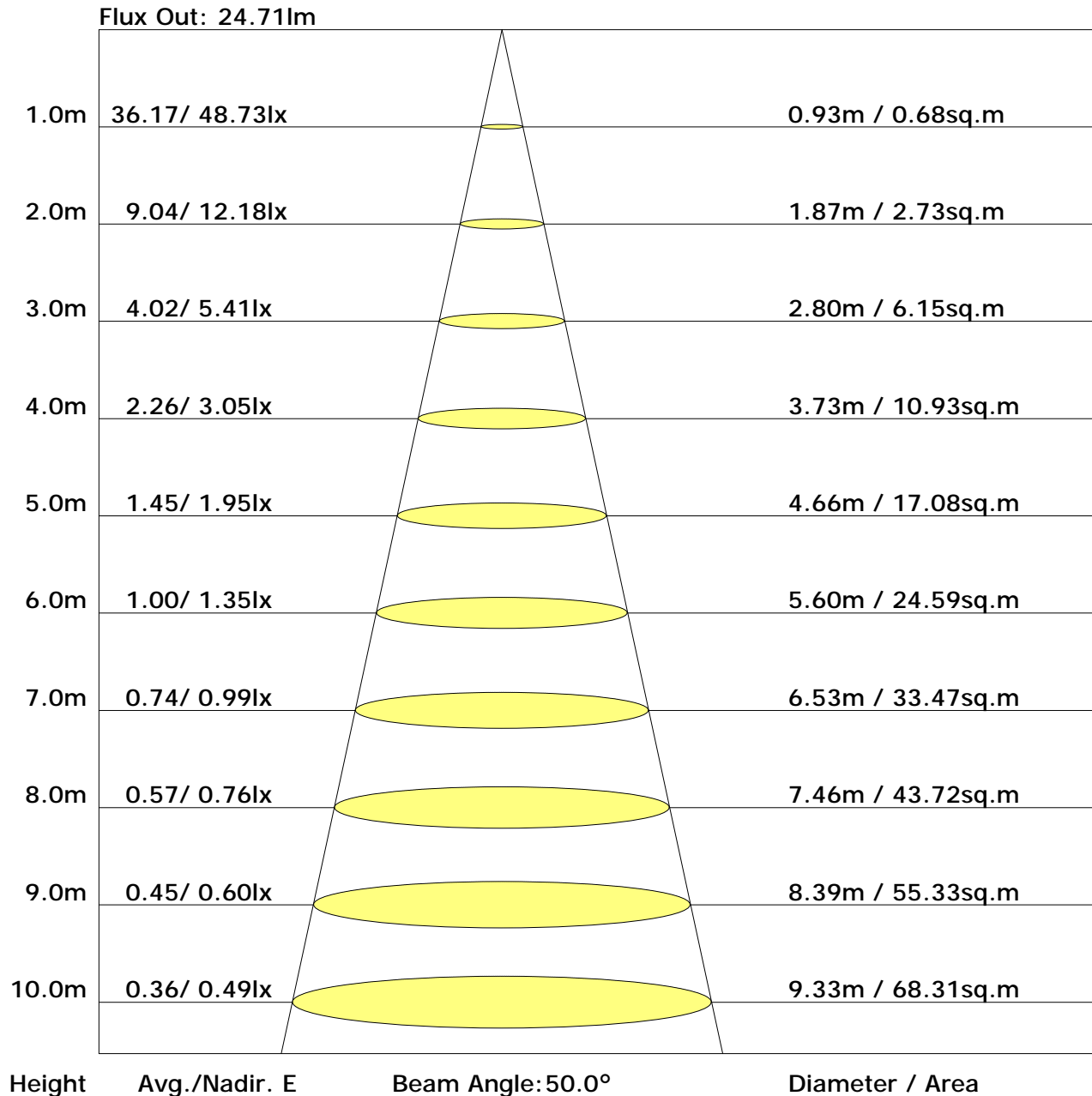
C Plane (°):0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: Nick

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 9.028 m  
Humidity: 60%  
Inspector:

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 9.028 m  
Humidity: 60%  
Inspector:



## The Average Illuminance Effective Figure



C Plane (°):0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: Nick

Gamma Plane (°):0.0-180.0: 1.0  
Test Device: GPM-1800B  
Distance: 9.028 m  
Humidity: 60%  
Inspector:

## UGR Table

Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference 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	21.6	23.0	21.9	23.3	23.7	18.9	20.3	19.2	20.6	21.0
3H	23.0	24.3	23.4	24.6	25.0	19.8	21.1	20.2	21.4	21.8
4H	23.4	24.6	23.9	25.0	25.4	20.0	21.2	20.4	21.6	22.0
6H	23.8	24.9	24.2	25.3	25.7	20.1	21.2	20.5	21.6	22.0
8H	23.9	24.9	24.3	25.3	25.7	20.1	21.2	20.6	21.6	22.0
12H	23.9	24.9	24.3	25.3	25.8	20.1	21.1	20.5	21.5	22.0
X=4H Y=2H	21.7	22.9	22.1	23.3	23.7	19.4	20.7	19.9	21.0	21.4
3H	23.2	24.2	23.6	24.6	25.1	20.5	21.5	20.9	21.9	22.3
4H	23.8	24.6	24.2	25.1	25.5	20.8	21.7	21.2	22.1	22.6
6H	24.2	24.9	24.6	25.4	25.9	21.0	21.7	21.4	22.2	22.7
8H	24.3	25.0	24.7	25.4	25.9	21.0	21.7	21.5	22.2	22.6
12H	24.3	25.0	24.8	25.5	26.0	21.0	21.6	21.5	22.1	22.6
X=8H Y=4H	23.7	24.5	24.2	24.9	25.4	21.0	21.7	21.5	22.2	22.7
6H	24.1	24.8	24.7	25.3	25.8	21.2	21.8	21.7	22.3	22.8
8H	24.3	24.8	24.8	25.4	25.9	21.2	21.8	21.8	22.3	22.8
12H	24.4	24.9	24.9	25.4	26.0	21.2	21.7	21.8	22.2	22.8
X=12H Y=4H	23.7	24.4	24.2	24.9	25.3	21.0	21.6	21.5	22.1	22.6
6H	24.1	24.7	24.7	25.1	25.7	21.2	21.8	21.8	22.2	22.8
8H	24.3	24.7	24.8	25.3	25.8	21.3	21.7	21.8	22.3	22.8

Calculate in accordance with CIE 190:2010

C Plane (°): 0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature: 25  
 Operator: Nick

Gamma Plane (°): 0.0-180.0: 1.0  
 Test Device: GPM-1800B  
 Distance: 9.028 m  
 Humidity: 60%  
 Inspector:

## Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 1.00								
Room Reflectance			Room Index(RI)								
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.64	0.73	0.80	0.85	0.92	0.96	0.99	1.03	1.06
	0.30		0.57	0.67	0.74	0.79	0.86	0.91	0.95	0.99	1.03
	0.20		0.51	0.61	0.69	0.74	0.82	0.87	0.91	0.96	1.00
0.50	0.50	0.20	0.62	0.71	0.78	0.82	0.88	0.92	0.95	0.99	1.01
	0.30		0.56	0.65	0.72	0.77	0.84	0.88	0.92	0.96	0.99
	0.20		0.51	0.61	0.68	0.73	0.80	0.85	0.89	0.93	0.97
0.30	0.50	0.20	0.61	0.69	0.75	0.80	0.85	0.89	0.92	0.95	0.97
	0.30		0.55	0.64	0.71	0.75	0.82	0.86	0.89	0.93	0.95
	0.20		0.51	0.60	0.67	0.72	0.78	0.83	0.86	0.91	0.93
0.00	0.00	0.00	0.49	0.58	0.64	0.69	0.75	0.79	0.82	0.86	0.89
Rating:5W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											

## Utilisation Factor Table(Wall)

Utilisation Factors UF(W)			SHR NOM = 1.00								
Room Reflectance			Room Index(RI)								
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.89	0.73	0.61	0.53	0.42	0.35	0.29	0.23	0.18
	0.30		0.74	0.62	0.53	0.47	0.38	0.32	0.27	0.21	0.18
	0.20		0.64	0.54	0.47	0.42	0.35	0.29	0.25	0.20	0.17
0.50	0.50	0.20	0.86	0.69	0.59	0.51	0.40	0.36	0.28	0.21	0.17
	0.30		0.72	0.60	0.52	0.45	0.36	0.30	0.26	0.20	0.17
	0.20		0.63	0.53	0.46	0.41	0.33	0.28	0.24	0.19	0.16
0.30	0.50	0.20	0.83	0.66	0.56	0.48	0.38	0.31	0.26	0.20	0.16
	0.30		0.71	0.59	0.50	0.44	0.35	0.29	0.25	0.19	0.16
	0.20		0.62	0.52	0.45	0.40	0.32	0.27	0.23	0.18	0.15
0.00	0.00	0.00	0.51	0.42	0.35	0.31	0.24	0.20	0.17	0.13	0.11
Rating:5W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											

## Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 1.00									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.16	0.18	0.19	0.19	0.20	0.21	0.21	0.22	0.22	
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.06	0.08	0.09	0.10	0.13	0.14	0.15	0.17	0.18	
0.50	0.50	0.20	0.16	0.17	0.18	0.19	0.19	0.20	0.20	0.21	0.21	
	0.30		0.10	0.12	0.13	0.14	0.15	0.17	0.17	0.19	0.19	
	0.20		0.06	0.07	0.09	0.10	0.12	0.14	0.15	0.17	0.18	
0.30	0.50	0.20	0.15	0.16	0.17	0.18	0.19	0.19	0.20	0.20	0.20	
	0.30		0.10	0.11	0.13	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.06	0.07	0.09	0.10	0.12	0.13	0.15	0.16	0.17	
0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
Rating:5W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

## Zonal Lumen

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	48.8	0.0	0.0	0.05	0.05
1.0-2.0	48.7	0.1	0.2	0.16	0.21
2.0-3.0	48.6	0.2	0.4	0.27	0.48
3.0-4.0	48.4	0.3	0.7	0.37	0.85
4.0-5.0	48.3	0.4	1.2	0.48	1.33
5.0-6.0	48.0	0.5	1.7	0.58	1.91
6.0-7.0	47.7	0.6	2.3	0.68	2.59
7.0-8.0	47.4	0.7	2.9	0.78	3.37
8.0-9.0	47.0	0.8	3.7	0.88	4.24
9.0-10.0	46.6	0.8	4.5	0.97	5.21
10.0-11.0	46.1	0.9	5.5	1.06	6.27
11.0-12.0	45.6	1.0	6.5	1.15	7.42
12.0-13.0	45.1	1.1	7.5	1.23	8.65
13.0-14.0	44.5	1.1	8.7	1.31	9.95
14.0-15.0	43.9	1.2	9.9	1.38	11.34
15.0-16.0	43.3	1.3	11.1	1.46	12.79
16.0-17.0	42.6	1.3	12.5	1.52	14.32
17.0-18.0	41.9	1.4	13.9	1.59	15.90
18.0-19.0	41.1	1.4	15.3	1.64	17.55
19.0-20.0	40.4	1.5	16.8	1.70	19.24
20.0-21.0	39.6	1.5	18.3	1.75	20.99
21.0-22.0	38.8	1.6	19.8	1.79	22.78
22.0-23.0	38.0	1.6	21.4	1.83	24.61
23.0-24.0	37.1	1.6	23.1	1.86	26.47
24.0-25.0	36.3	1.6	24.7	1.89	28.37
25.0-26.0	35.4	1.7	26.4	1.92	30.29
26.0-27.0	34.5	1.7	28.1	1.94	32.23
27.0-28.0	33.7	1.7	29.8	1.96	34.18
28.0-29.0	32.8	1.7	31.5	1.97	36.15
29.0-30.0	31.9	1.7	33.2	1.98	38.13
30.0-31.0	31.0	1.7	34.9	1.98	40.11
31.0-32.0	30.1	1.7	36.7	1.98	42.09
32.0-33.0	29.2	1.7	38.4	1.98	44.07
33.0-34.0	28.4	1.7	40.1	1.97	46.04
34.0-35.0	27.5	1.7	41.8	1.96	48.00
35.0-36.0	26.6	1.7	43.5	1.95	49.95

C Plane (°): 0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature: 25  
 Operator: Nick

Gamma Plane (°): 0.0-180.0: 1.0  
 Test Device: GPM-1800B  
 Distance: 9.028 m  
 Humidity: 60%  
 Inspector:



## Zonal Lumen (Continue 1)

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	25.7	1.7	45.2	1.93	51.87
37.0-38.0	24.9	1.7	46.8	1.91	53.78
38.0-39.0	24.0	1.6	48.5	1.88	55.67
39.0-40.0	23.2	1.6	50.1	1.86	57.52
40.0-41.0	22.4	1.6	51.7	1.83	59.35
41.0-42.0	21.6	1.6	53.3	1.80	61.15
42.0-43.0	20.8	1.5	54.8	1.77	62.92
43.0-44.0	20.0	1.5	56.3	1.73	64.65
44.0-45.0	19.2	1.5	57.8	1.70	66.35
45.0-46.0	18.5	1.4	59.2	1.66	68.01
46.0-47.0	17.7	1.4	60.6	1.62	69.63
47.0-48.0	17.0	1.4	62.0	1.58	71.20
48.0-49.0	16.3	1.3	63.4	1.54	72.74
49.0-50.0	15.6	1.3	64.7	1.49	74.23
50.0-51.0	14.9	1.3	65.9	1.45	75.68
51.0-52.0	14.3	1.2	67.1	1.41	77.09
52.0-53.0	13.6	1.2	68.3	1.36	78.45
53.0-54.0	13.0	1.1	69.5	1.31	79.76
54.0-55.0	12.4	1.1	70.6	1.27	81.03
55.0-56.0	11.8	1.1	71.6	1.22	82.25
56.0-57.0	11.2	1.0	72.7	1.17	83.43
57.0-58.0	10.6	1.0	73.6	1.13	84.56
58.0-59.0	10.1	0.9	74.6	1.08	85.64
59.0-60.0	9.6	0.9	75.5	1.04	86.67
60.0-61.0	9.0	0.9	76.4	0.99	87.66
61.0-62.0	8.5	0.8	77.2	0.94	88.61
62.0-63.0	8.0	0.8	78.0	0.90	89.50
63.0-64.0	7.5	0.7	78.7	0.85	90.35
64.0-65.0	7.1	0.7	79.4	0.81	91.16
65.0-66.0	6.6	0.7	80.1	0.76	91.92
66.0-67.0	6.2	0.6	80.7	0.72	92.64
67.0-68.0	5.8	0.6	81.3	0.67	93.31
68.0-69.0	5.4	0.5	81.8	0.63	93.94
69.0-70.0	5.0	0.5	82.3	0.59	94.53
70.0-71.0	4.6	0.5	82.8	0.55	95.07
71.0-72.0	4.2	0.4	83.2	0.51	95.58

C Plane (°): 0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature: 25  
 Operator: Nick

Gamma Plane (°): 0.0-180.0: 1.0  
 Test Device: GPM-1800B  
 Distance: 9.028 m  
 Humidity: 60%  
 Inspector:

## Zonal Lumen (Continue 2)

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	3.9	0.4	83.7	0.47	96.04
73.0-74.0	3.5	0.4	84.0	0.43	96.47
74.0-75.0	3.2	0.3	84.4	0.39	96.86
75.0-76.0	2.9	0.3	84.7	0.35	97.21
76.0-77.0	2.6	0.3	84.9	0.32	97.53
77.0-78.0	2.3	0.2	85.2	0.28	97.81
78.0-79.0	2.0	0.2	85.4	0.25	98.06
79.0-80.0	1.8	0.2	85.6	0.22	98.28
80.0-81.0	1.5	0.2	85.8	0.19	98.47
81.0-82.0	1.3	0.1	85.9	0.16	98.63
82.0-83.0	1.1	0.1	86.0	0.13	98.76
83.0-84.0	0.9	0.1	86.1	0.11	98.87
84.0-85.0	0.7	0.1	86.2	0.08	98.95
85.0-86.0	0.5	0.1	86.2	0.06	99.01
86.0-87.0	0.3	0.0	86.3	0.04	99.05
87.0-88.0	0.2	0.0	86.3	0.03	99.08
88.0-89.0	0.1	0.0	86.3	0.01	99.09
89.0-90.0	0.0	0.0	86.3	0.01	99.10
90.0-91.0	0.0	0.0	86.3	0.00	99.10
91.0-92.0	0.0	0.0	86.3	0.00	99.10
92.0-93.0	0.0	0.0	86.3	0.00	99.11
93.0-94.0	0.0	0.0	86.3	0.00	99.11
94.0-95.0	0.0	0.0	86.3	0.00	99.11
95.0-96.0	0.0	0.0	86.3	0.00	99.11
96.0-97.0	0.0	0.0	86.3	0.00	99.12
97.0-98.0	0.0	0.0	86.3	0.00	99.12
98.0-99.0	0.0	0.0	86.3	0.00	99.12
99.0-100.0	0.0	0.0	86.3	0.00	99.13
100.0-101.0	0.0	0.0	86.3	0.00	99.13
101.0-102.0	0.0	0.0	86.3	0.00	99.13
102.0-103.0	0.0	0.0	86.3	0.00	99.14
103.0-104.0	0.0	0.0	86.4	0.01	99.14
104.0-105.0	0.1	0.0	86.4	0.01	99.15
105.0-106.0	0.1	0.0	86.4	0.01	99.16
106.0-107.0	0.1	0.0	86.4	0.01	99.16
107.0-108.0	0.1	0.0	86.4	0.01	99.17

C Plane (°): 0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature: 25  
 Operator: Nick

Gamma Plane (°): 0.0-180.0: 1.0  
 Test Device: GPM-1800B  
 Distance: 9.028 m  
 Humidity: 60%  
 Inspector:

## Zonal Lumen (Continue 3)

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	0.1	0.0	86.4	0.01	99.18
109.0-110.0	0.1	0.0	86.4	0.01	99.18
110.0-111.0	0.1	0.0	86.4	0.01	99.19
111.0-112.0	0.1	0.0	86.4	0.01	99.20
112.0-113.0	0.1	0.0	86.4	0.01	99.21
113.0-114.0	0.1	0.0	86.4	0.01	99.22
114.0-115.0	0.1	0.0	86.4	0.01	99.23
115.0-116.0	0.1	0.0	86.4	0.01	99.24
116.0-117.0	0.1	0.0	86.4	0.01	99.24
117.0-118.0	0.1	0.0	86.4	0.01	99.25
118.0-119.0	0.1	0.0	86.5	0.01	99.26
119.0-120.0	0.1	0.0	86.5	0.01	99.28
120.0-121.0	0.1	0.0	86.5	0.01	99.29
121.0-122.0	0.1	0.0	86.5	0.01	99.30
122.0-123.0	0.1	0.0	86.5	0.01	99.31
123.0-124.0	0.1	0.0	86.5	0.01	99.33
124.0-125.0	0.1	0.0	86.5	0.01	99.34
125.0-126.0	0.1	0.0	86.5	0.01	99.35
126.0-127.0	0.1	0.0	86.5	0.01	99.37
127.0-128.0	0.1	0.0	86.6	0.01	99.38
128.0-129.0	0.2	0.0	86.6	0.01	99.40
129.0-130.0	0.1	0.0	86.6	0.01	99.41
130.0-131.0	0.1	0.0	86.6	0.01	99.42
131.0-132.0	0.2	0.0	86.6	0.01	99.44
132.0-133.0	0.2	0.0	86.6	0.02	99.45
133.0-134.0	0.2	0.0	86.6	0.02	99.47
134.0-135.0	0.2	0.0	86.6	0.01	99.48
135.0-136.0	0.2	0.0	86.7	0.02	99.50
136.0-137.0	0.2	0.0	86.7	0.02	99.51
137.0-138.0	0.2	0.0	86.7	0.02	99.53
138.0-139.0	0.2	0.0	86.7	0.02	99.55
139.0-140.0	0.2	0.0	86.7	0.02	99.56
140.0-141.0	0.2	0.0	86.7	0.02	99.58
141.0-142.0	0.2	0.0	86.7	0.02	99.59
142.0-143.0	0.2	0.0	86.8	0.02	99.61
143.0-144.0	0.2	0.0	86.8	0.02	99.63

C Plane (°): 0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature: 25  
 Operator: Nick

Gamma Plane (°): 0.0-180.0: 1.0  
 Test Device: GPM-1800B  
 Distance: 9.028 m  
 Humidity: 60%  
 Inspector:

## Zonal Lumen (Continue 4)

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	0.2	0.0	86.8	0.02	99.64
145.0-146.0	0.2	0.0	86.8	0.02	99.66
146.0-147.0	0.2	0.0	86.8	0.02	99.68
147.0-148.0	0.2	0.0	86.8	0.02	99.69
148.0-149.0	0.2	0.0	86.8	0.02	99.71
149.0-150.0	0.2	0.0	86.9	0.02	99.73
150.0-151.0	0.2	0.0	86.9	0.02	99.74
151.0-152.0	0.2	0.0	86.9	0.01	99.76
152.0-153.0	0.3	0.0	86.9	0.01	99.77
153.0-154.0	0.3	0.0	86.9	0.01	99.79
154.0-155.0	0.3	0.0	86.9	0.01	99.80
155.0-156.0	0.3	0.0	86.9	0.01	99.81
156.0-157.0	0.3	0.0	86.9	0.01	99.83
157.0-158.0	0.3	0.0	87.0	0.01	99.84
158.0-159.0	0.3	0.0	87.0	0.01	99.85
159.0-160.0	0.3	0.0	87.0	0.01	99.87
160.0-161.0	0.3	0.0	87.0	0.01	99.88
161.0-162.0	0.3	0.0	87.0	0.01	99.89
162.0-163.0	0.3	0.0	87.0	0.01	99.90
163.0-164.0	0.3	0.0	87.0	0.01	99.91
164.0-165.0	0.3	0.0	87.0	0.01	99.92
165.0-166.0	0.3	0.0	87.0	0.01	99.93
166.0-167.0	0.3	0.0	87.0	0.01	99.94
167.0-168.0	0.3	0.0	87.1	0.01	99.95
168.0-169.0	0.3	0.0	87.1	0.01	99.96
169.0-170.0	0.3	0.0	87.1	0.01	99.96
170.0-171.0	0.3	0.0	87.1	0.01	99.97
171.0-172.0	0.3	0.0	87.1	0.01	99.98
172.0-173.0	0.3	0.0	87.1	0.01	99.98
173.0-174.0	0.3	0.0	87.1	0.00	99.99
174.0-175.0	0.3	0.0	87.1	0.00	99.99
175.0-176.0	0.3	0.0	87.1	0.00	99.99
176.0-177.0	0.3	0.0	87.1	0.00	100.00
177.0-178.0	0.3	0.0	87.1	0.00	100.00
178.0-179.0	0.3	0.0	87.1	0.00	100.00
179.0-180.0	0.3	0.0	87.1	0.00	100.00

C Plane (°):0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: Nick

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 9.028 m  
Humidity: 60%  
Inspector: