

Report No.: 01

Test Time: 2016/9/6 12:08

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: LIINEARLYTE

Luminaire Description: PC3 3500K HO

Luminous Length (mm): 600

Luminous Height (mm):

Current: 0.113 A

Power Factor: 0.959

Luminous Width (mm):

Voltage: 219.9 V

Power: 23.83 W

Photometric Results

CIE Class: Semi-Direct

Measurement Flux: 2399.9 lm

Downward Ratio: 76%

Horizontal Diffuse Angle(50%): H186.6

Vertical Diffuse Angle(50%): V105.4

Luminaire Efficacy Rating (LER): 101

Max. Intensity: 479.45 cd

Total Rated Lamp Lumens: 2399.9 lm

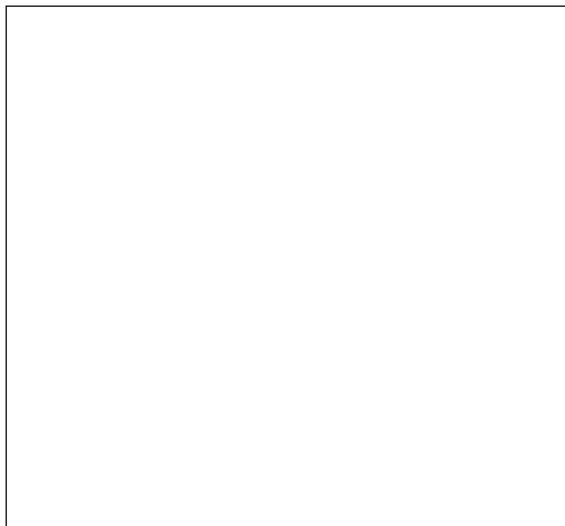
Efficiency: 100%

Upward Ratio: 24%

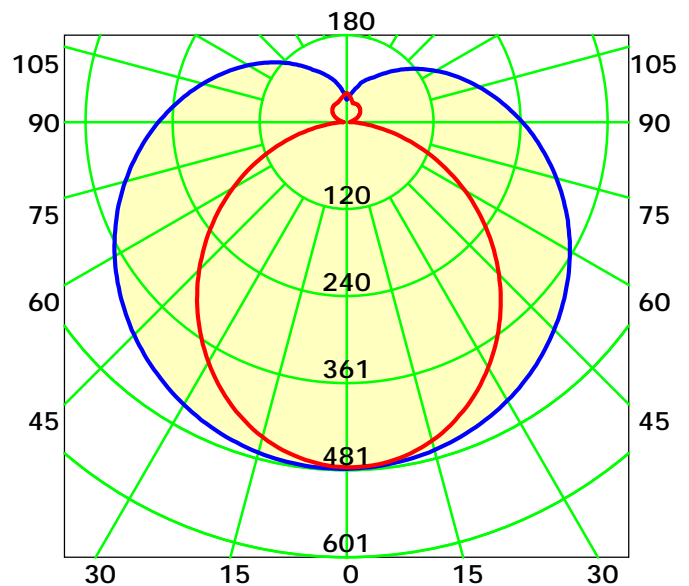
Central Intensity: 479.22 cd

Pos of Max. Intensity: H180 V1

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 146.0° Unit: cd

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 30.0

Test Lab: ACOLYTE

Test Type: TYPE C

Temperature: 25°C

Operator:

Gamma Plane (°):0.0-180.0: 1.0

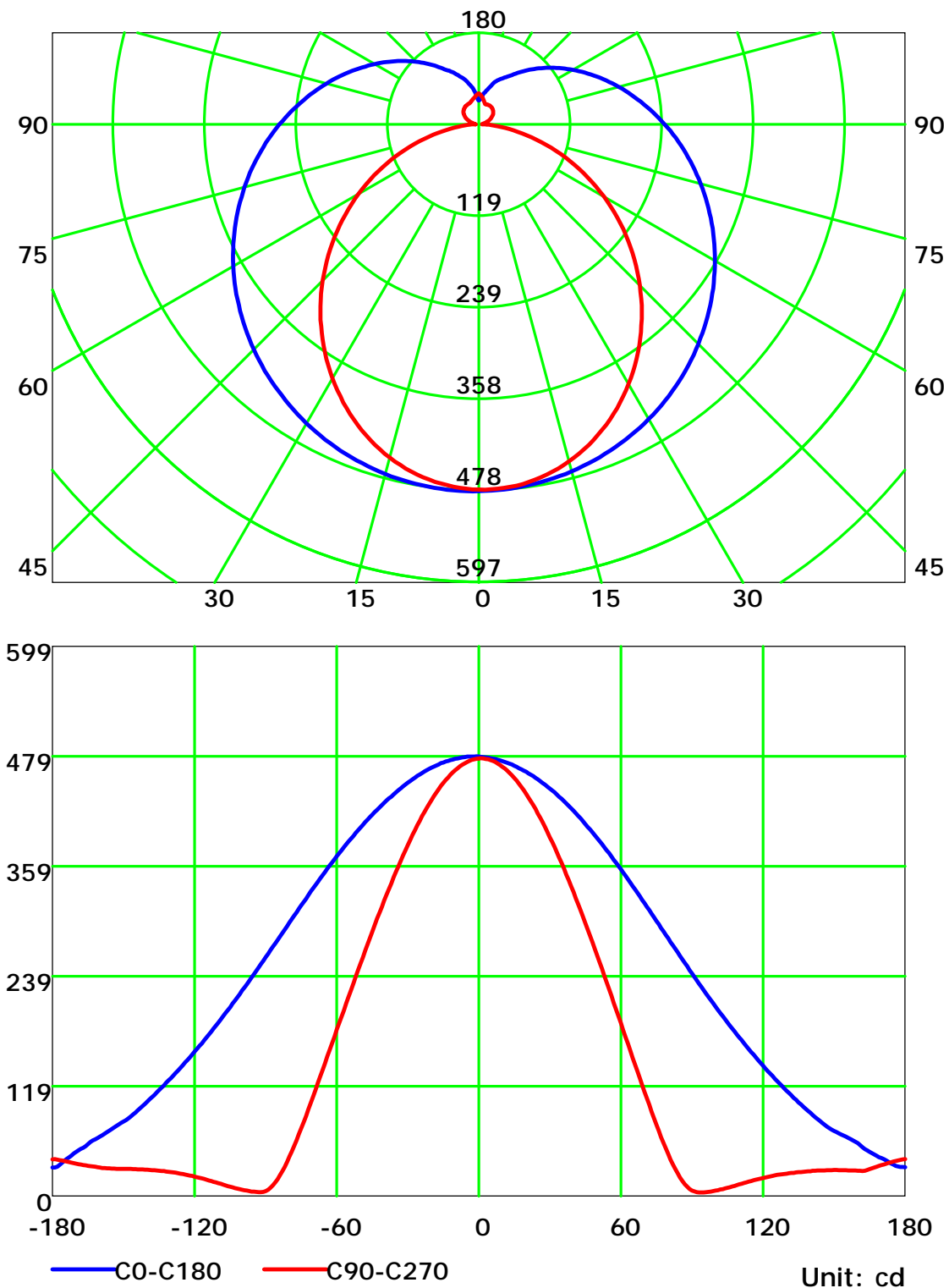
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

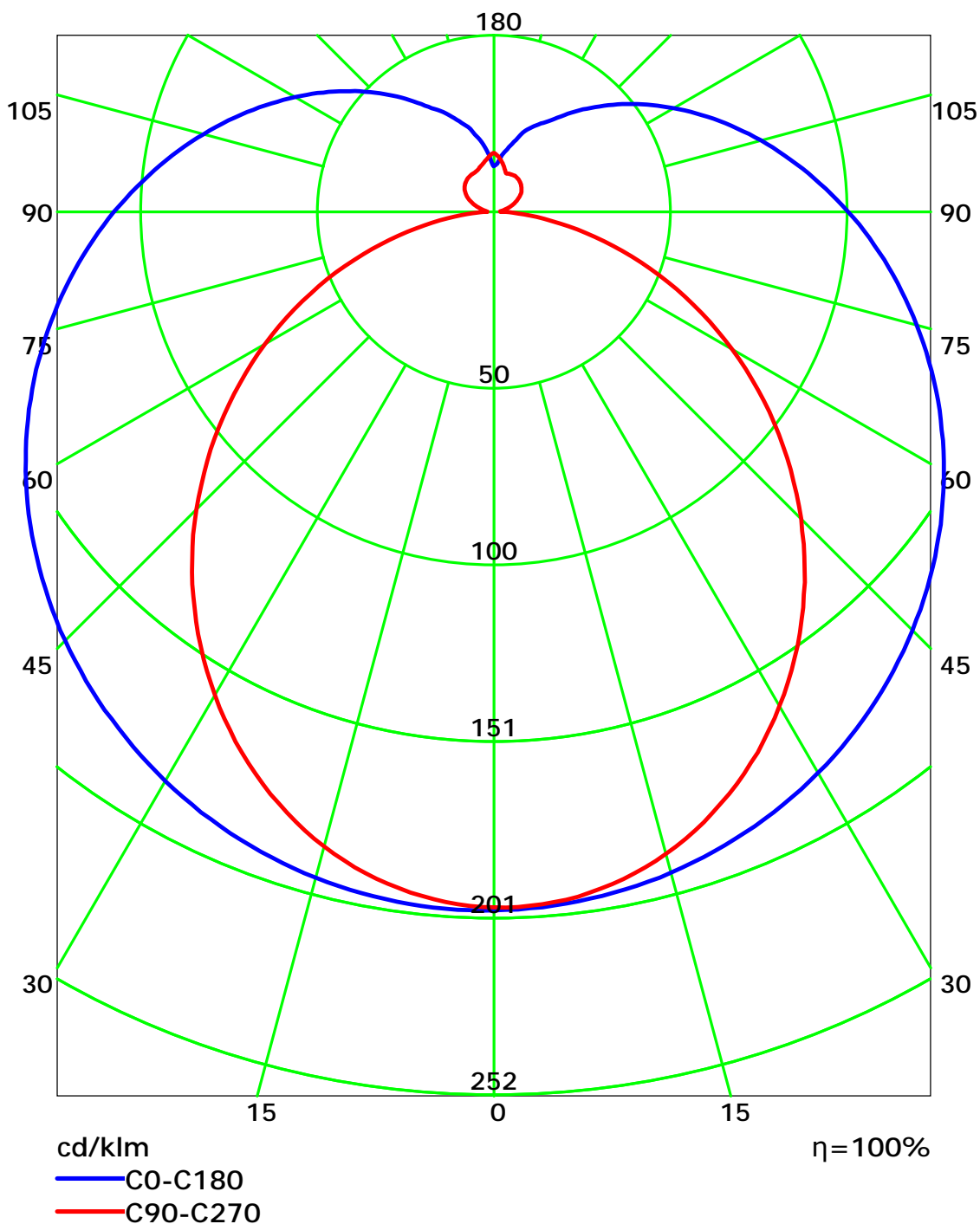
Luminous Intensity Distribution Curve



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

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: ACOLYTE
Test Type: TYPE C
Temperature: 25°C
Operator:

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

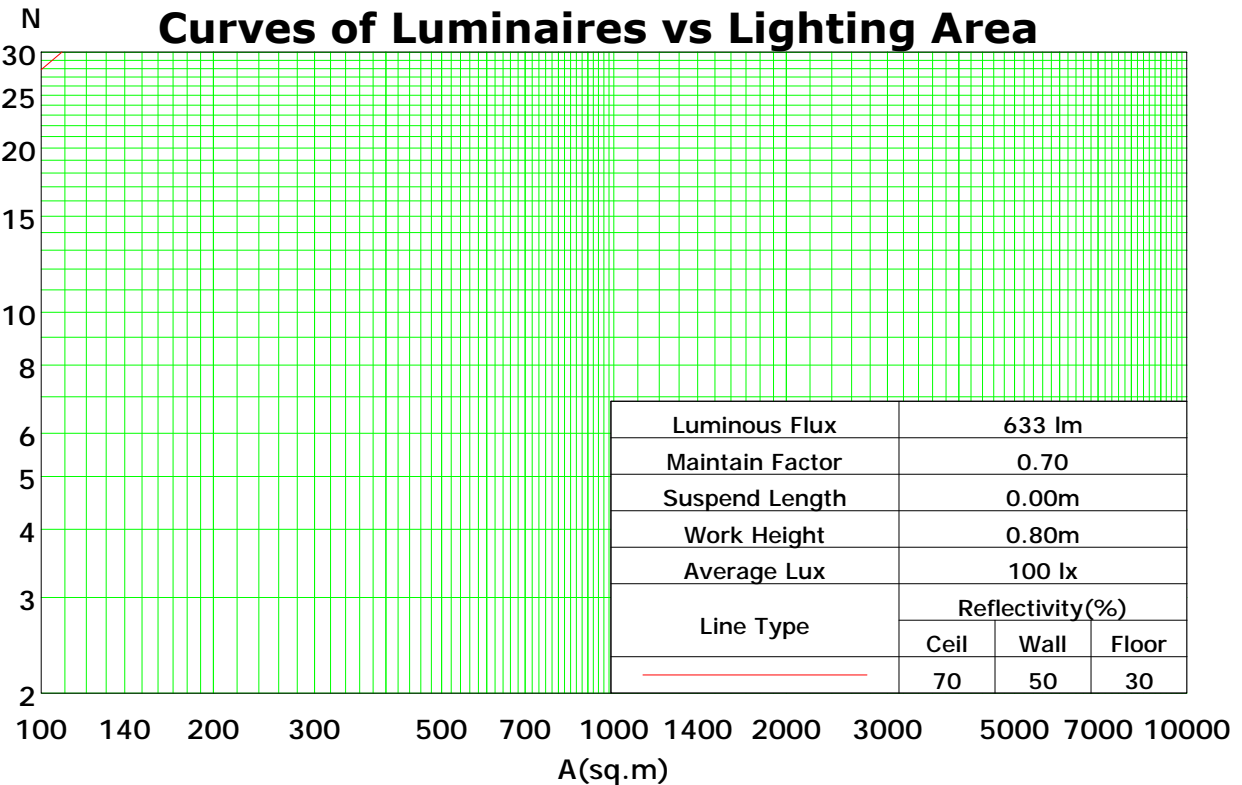
Coefficients Of Utilization - Zonal Cavity Method

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	113	113	113	113	108	108	108	108	98	98	98	89	89	89	80	80	80	76
1	100	94	89	84	95	90	85	80	81	77	74	73	70	67	66	63	61	57
2	90	81	73	66	85	77	70	64	69	63	58	62	58	54	56	52	49	45
3	81	70	61	54	77	66	58	52	60	53	48	54	49	44	48	44	40	37
4	74	61	52	45	70	58	50	43	53	46	40	48	42	37	43	38	34	31
5	68	54	45	38	64	52	43	37	47	40	34	42	36	32	38	33	29	26
6	62	49	39	33	59	46	38	32	42	35	30	38	32	27	35	29	25	23
7	58	44	35	29	55	42	34	28	38	31	26	35	29	24	31	26	22	20
8	54	40	31	25	51	38	30	24	35	28	23	32	26	21	29	24	20	18
9	50	36	28	22	47	35	27	22	32	25	20	29	23	19	27	22	18	16
10	47	33	25	20	44	32	25	20	29	23	18	27	21	17	25	20	16	14

Spacing Criteria (0-180): 1.40

Spacing Criteria (90-270): 1.21

Spacing Criteria (Diagonal): 1.45



C Plane (°):0.0-360.0: 30.0

Test Lab: ACOLYTE

Test Type: TYPE C

Temperature: 25°C

Operator:

Gamma Plane (°):0.0-180.0:1.0

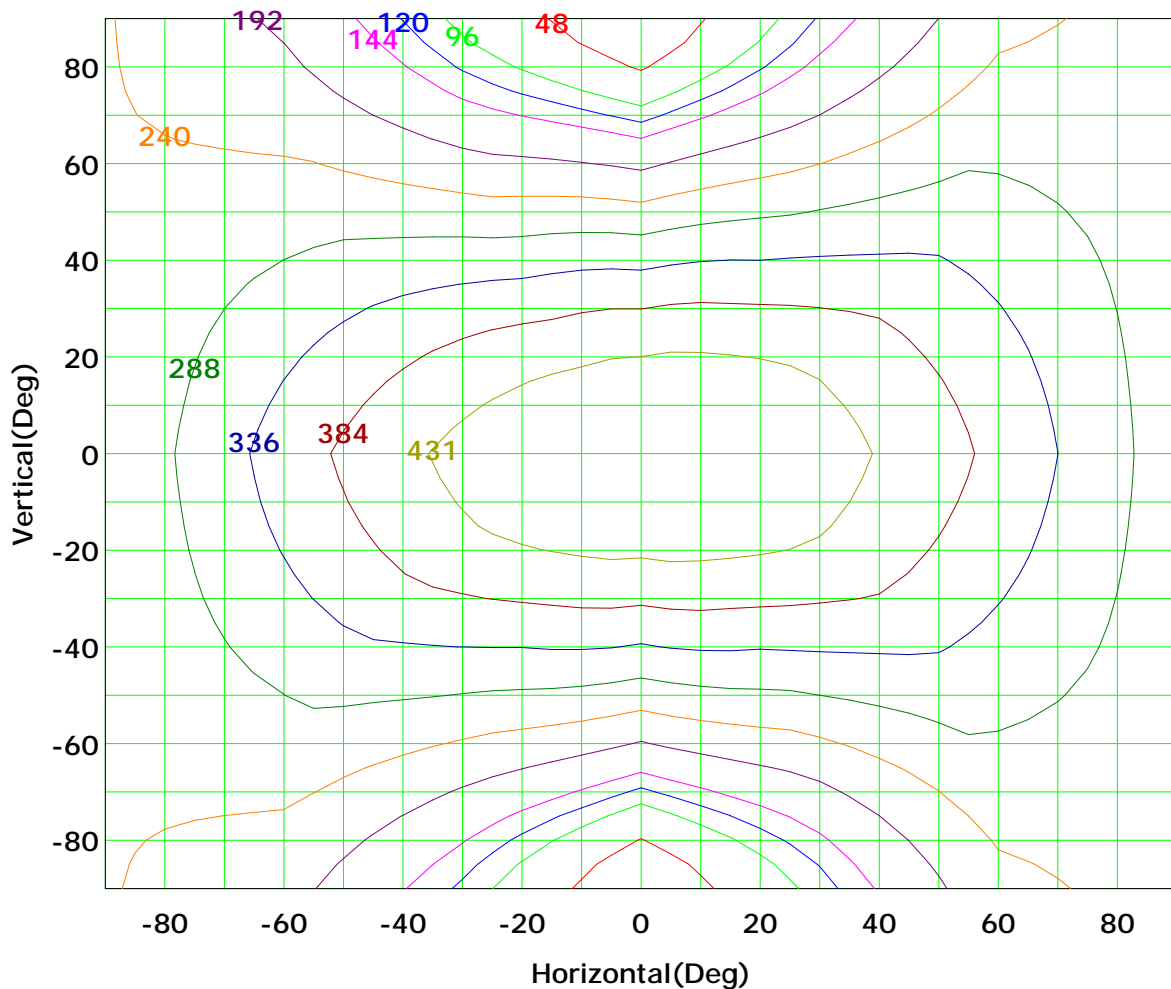
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

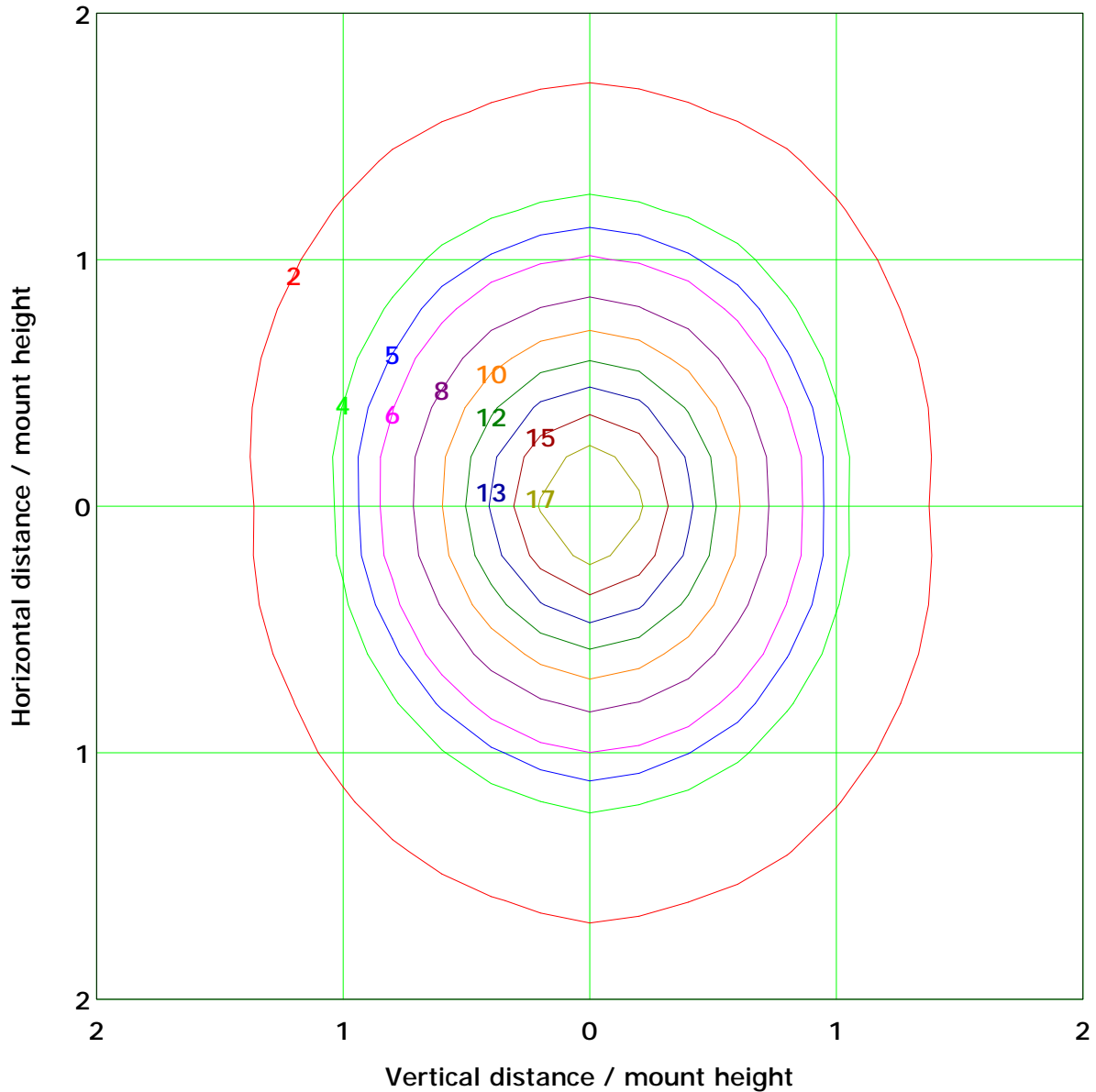
Isocandela (rectangle)



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

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%): 19.2 lx

(10%): 1.9 lx	(20%): 3.8 lx
(25%): 4.8 lx	(30%): 5.8 lx
(40%): 7.7 lx	(50%): 9.6 lx
(60%): 11.5 lx	(70%): 13.4 lx
(80%): 15.3 lx	(90%): 17.3 lx

C Plane (°):0.0-360.0: 30.0

Test Lab: ACOLYTE

Test Type: TYPE C

Temperature: 25°C

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 9.028 m

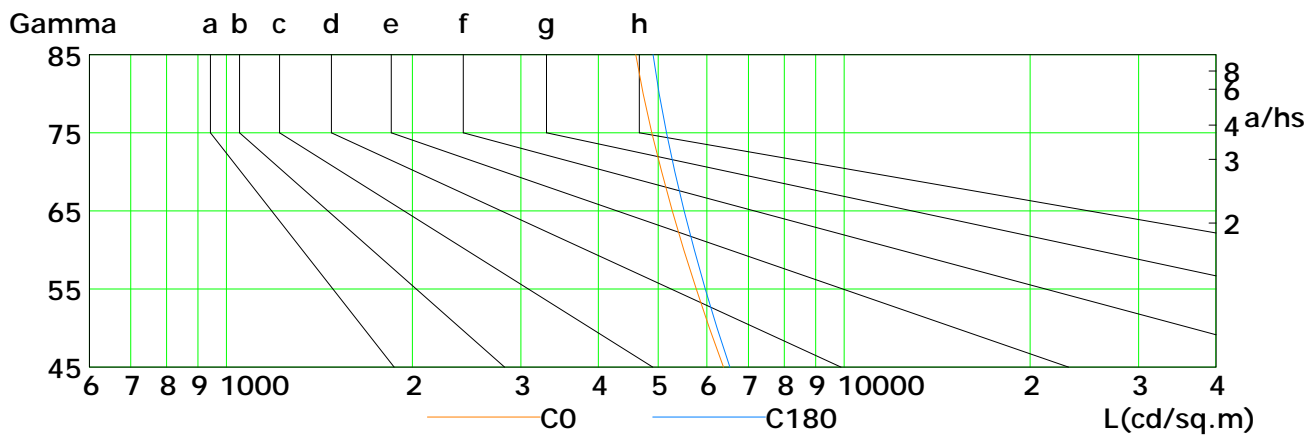
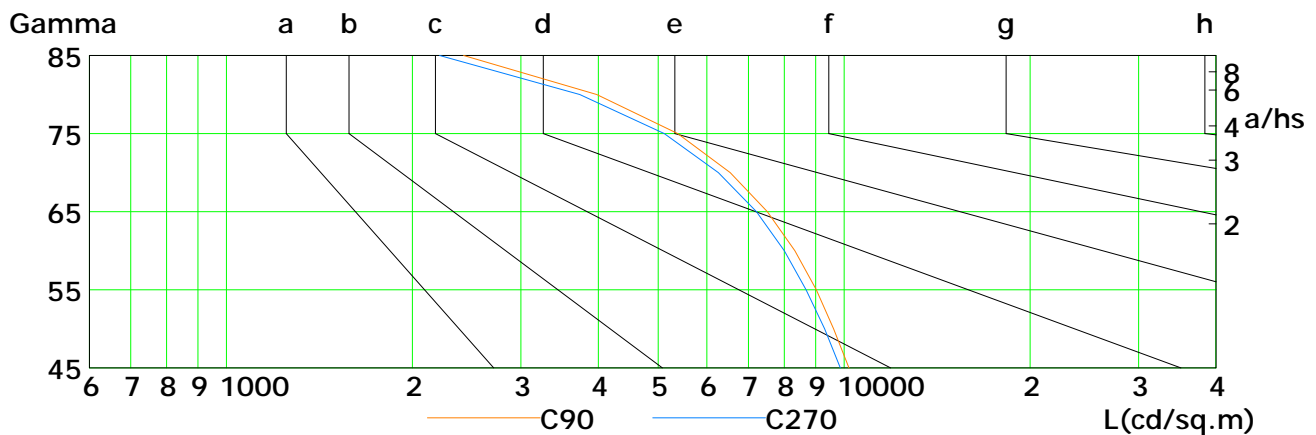
Humidity: 60%

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	6378	6052	5766	5503	5273	5066	4884	4730	4601
C90	10181	9623	9019	8325	7514	6542	5383	3979	2422
C180	6536	6229	5964	5722	5509	5324	5160	5019	4909
C270	9867	9303	8685	8009	7214	6261	5114	3737	2214

C Plane (°):0.0-360.0: 30.0

Test Lab: ACOLYTE

Test Type: TYPE C

Temperature: 25°C

Operator:

Gamma Plane (°):0.0-180.0:1.0

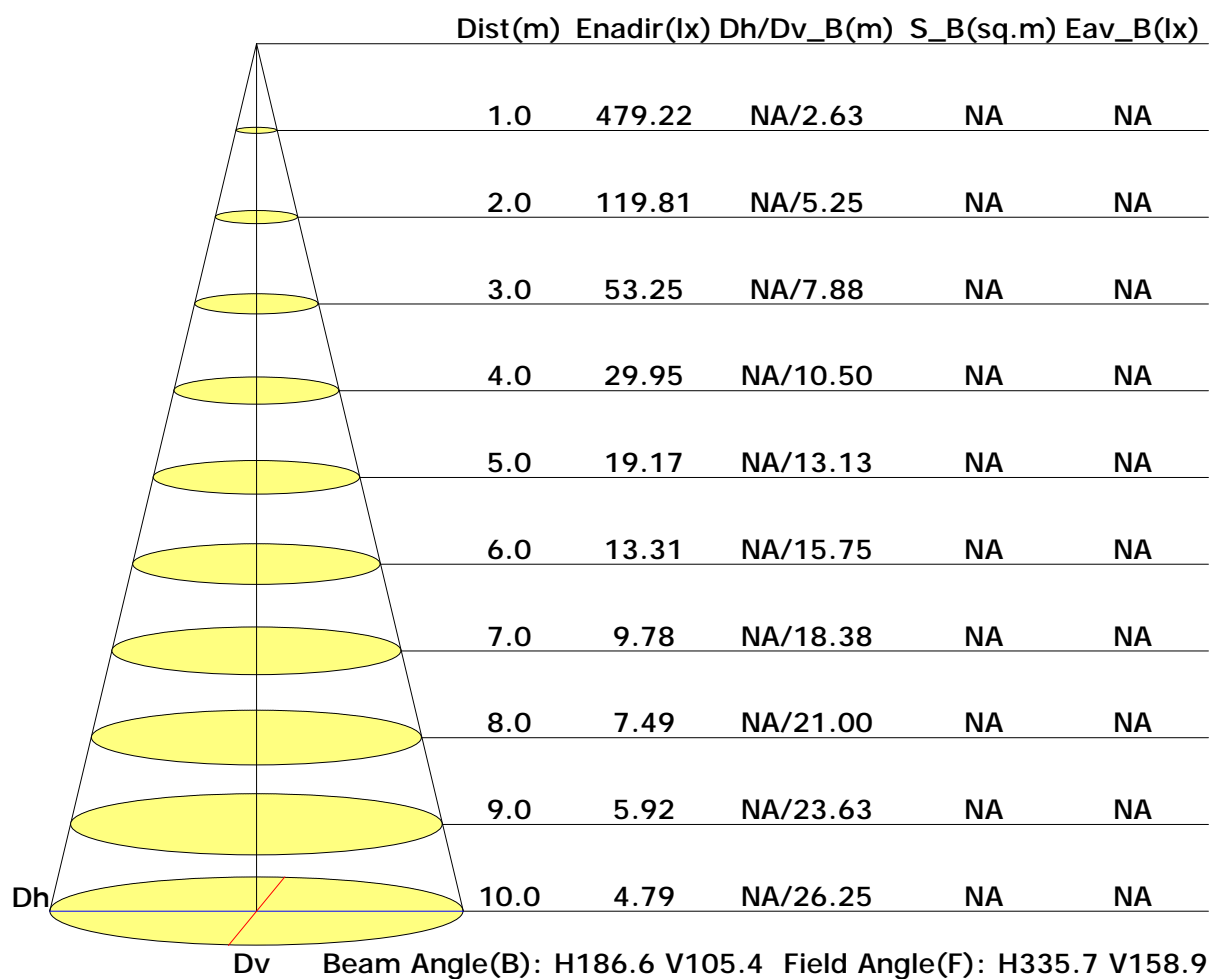
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

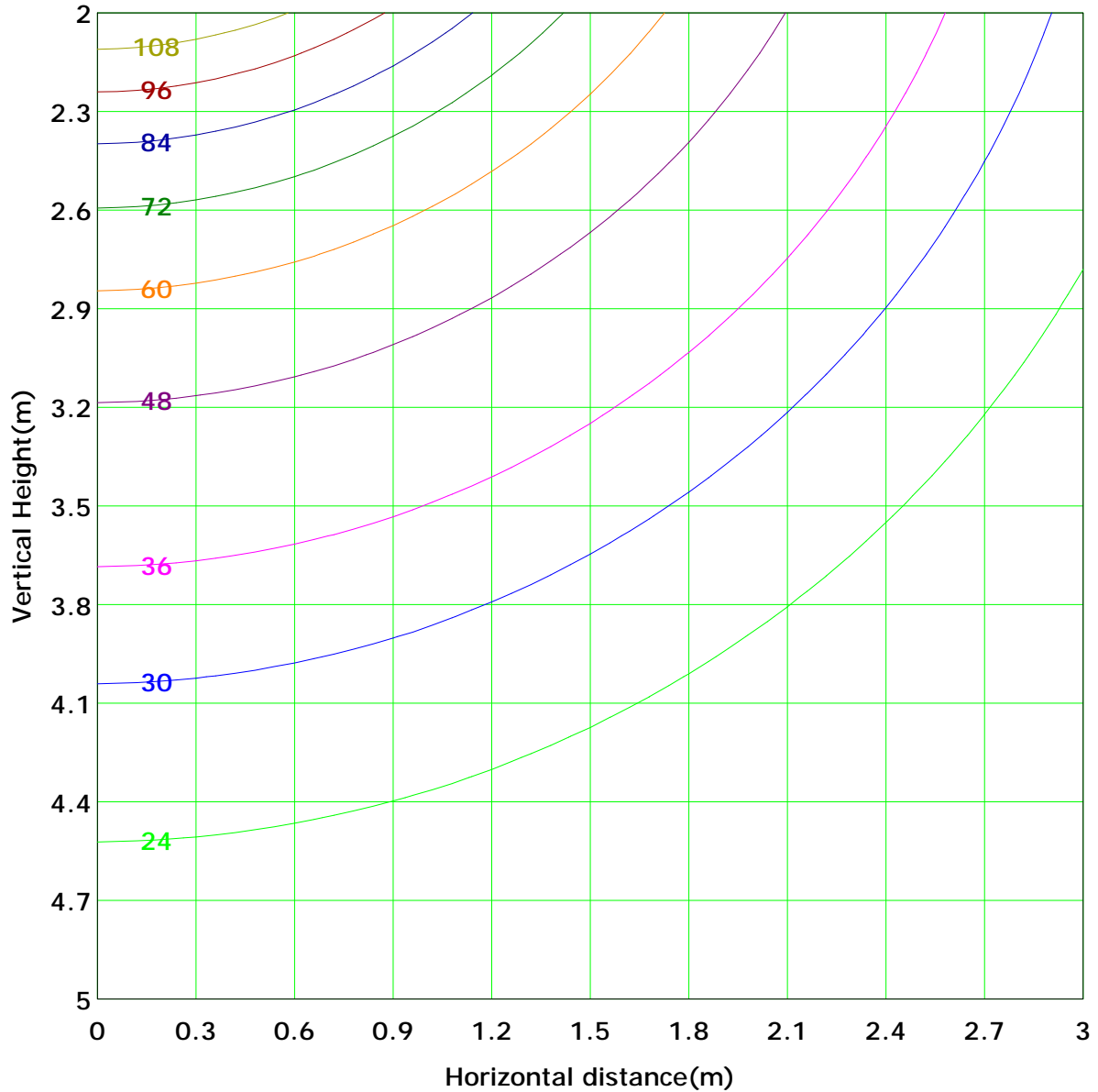
Illuminance at a Distance



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

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

Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 119.8 lx
(10%): 12.0 lx	(20%): 24.0 lx	
(25%): 30.0 lx	(30%): 35.9 lx	
(40%): 47.9 lx	(50%): 59.9 lx	
(60%): 71.9 lx	(70%): 83.9 lx	
(80%): 95.8 lx	(90%): 107.8 lx	

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

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

Area Flux Table

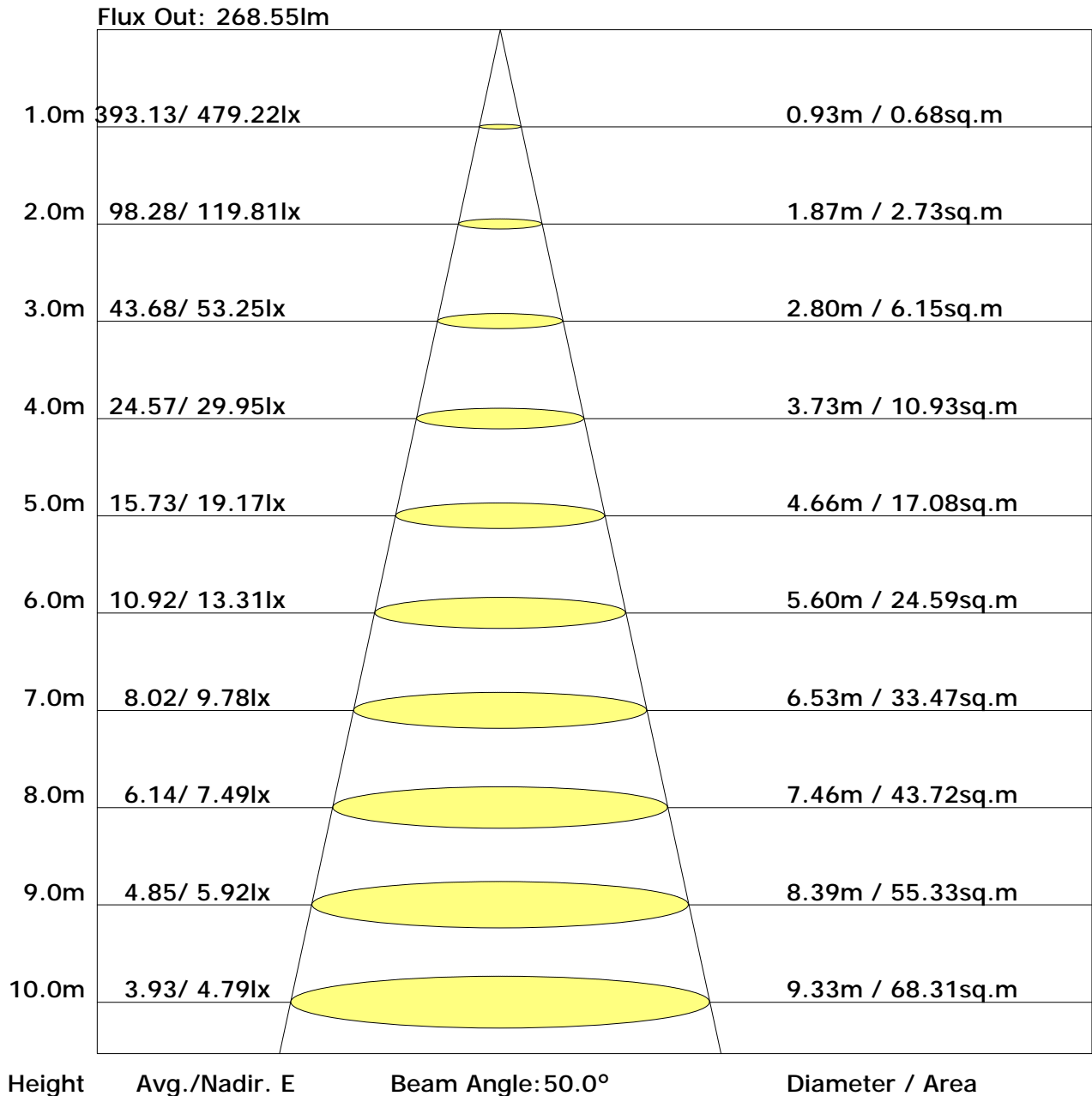
Unit: lm

		Orbit: m1																				
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)
Vertical plane	-90	0.7	2.0	3.1	3.8	4.0	3.8	3.2	2.3	1.2	1.0	1.8	2.4	2.9	3.1	3.1	2.6	1.7	0.6	43.4	41.7	
	-80	0.7	2.0	3.3	4.2	4.6	4.6	4.3	3.7	2.8	2.6	3.1	3.5	3.7	3.8	3.5	2.8	1.8	0.6	55.6	55.6	
	-70	0.7	2.1	3.5	4.7	5.3	5.6	5.6	5.4	4.8	4.6	4.9	4.8	4.8	4.5	3.9	3.0	1.9	0.6	70.9	70.9	
	-60	0.7	2.2	3.7	5.1	6.1	6.8	7.1	7.2	6.9	6.8	6.7	6.3	5.9	5.3	4.4	3.3	2.0	0.7	87.3	87.3	
	-50	0.7	2.3	3.9	5.6	6.9	7.9	8.6	9.0	9.0	8.8	8.5	7.9	7.1	6.1	4.9	3.5	2.1	0.7	103.5	103.5	
	-40	0.7	2.3	4.1	5.9	7.7	9.0	10.0	10.7	10.9	10.7	10.2	9.4	8.3	6.9	5.4	3.7	2.1	0.7	118.7	118.7	
	-30	0.7	2.4	4.3	6.2	8.2	9.9	11.2	12.1	12.5	12.3	11.7	10.6	9.2	7.6	5.8	3.9	2.2	0.7	131.7	131.7	
	-20	0.7	2.5	4.4	6.5	8.6	10.5	12.1	13.2	13.7	13.5	12.8	11.6	10.0	8.1	6.1	4.1	2.3	0.7	141.5	141.5	
	-10	0.8	2.5	4.5	6.7	8.9	10.9	12.5	13.8	14.4	14.2	13.5	12.3	10.6	8.6	6.4	4.3	2.4	0.7	147.8	147.8	
	0	0.8	2.5	4.5	6.7	8.9	10.9	12.5	13.8	14.4	14.4	13.7	12.4	10.7	8.6	6.5	4.3	2.4	0.7	148.6	148.6	
10	0.7	2.5	4.5	6.7	8.9	10.9	12.6	13.8	14.4	14.4	13.7	12.4	10.7	8.6	6.5	4.3	2.4	0.7	148.6	148.6		
20	0.7	2.5	4.4	6.5	8.6	10.6	12.2	13.3	13.8	13.8	13.1	12.0	10.3	8.4	6.3	4.2	2.3	0.7	143.8	143.8		
30	0.7	2.4	4.3	6.3	8.2	10.0	11.4	12.3	12.7	12.7	12.1	11.1	9.8	8.0	6.0	4.1	2.3	0.7	135.0	135.0		
40	0.7	2.3	4.1	5.9	7.7	9.1	10.1	10.8	11.1	11.1	10.7	10.0	8.9	7.4	5.7	3.9	2.2	0.7	122.5	122.5		
50	0.7	2.3	3.9	5.6	6.9	7.9	8.6	9.1	9.2	9.2	9.1	8.5	7.8	6.7	5.3	3.7	2.1	0.7	107.4	107.4		
60	0.7	2.2	3.7	5.1	6.1	6.7	7.0	7.2	7.1	7.1	7.3	7.1	6.6	5.9	4.9	3.5	2.1	0.7	90.9	90.9		
70	0.7	2.1	3.5	4.6	5.2	5.5	5.4	5.3	4.9	4.9	5.4	5.6	5.5	5.1	4.4	3.3	2.0	0.7	74.1	74.1		
80	0.7	2.0	3.3	4.2	4.5	4.4	4.0	3.5	2.8	2.9	3.6	4.2	4.4	4.4	4.0	3.1	1.9	0.6	58.4	58.4		
90	0.7	1.9	3.1	3.8	3.8	3.5	2.9	2.1	1.2	1.2	2.2	3.1	3.6	3.7	3.5	2.9	1.8	0.6	45.7	44.3		
Flux(T)	13.0	40.5	69.6	97.5	120.3	137.5	148.9	154.8	153.5	151.9	150.6	142.7	130.1	112.3	90.1	64.2	37.5	12.0	1827			
Flux(E)	13.0	40.5	69.6	97.5	120.3	137.5	148.9	154.8	152.1	150.5	150.3	142.7	130.1	112.3	90.1	64.2	37.5	12.0		1824		
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)
		Horizontal plane																				

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

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: ACOLYTE
Test Type: TYPE C
Temperature: 25°C
Operator:

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	15.3	16.6	16.0	17.3	18.2	11.1	12.4	11.8	13.1	13.9
3H	18.3	19.5	19.0	20.2	21.1	12.5	13.6	13.1	14.3	15.2
4H	19.8	20.9	20.5	21.7	22.5	12.9	14.0	13.6	14.7	15.6
6H	21.4	22.5	22.1	23.2	24.1	13.1	14.2	13.8	14.9	15.8
8H	22.2	23.2	23.0	24.0	24.9	13.2	14.2	13.9	14.9	15.8
12H	23.1	24.0	23.8	24.8	25.7	13.2	14.1	13.9	14.9	15.8
X=4H Y=2H	15.6	16.7	16.3	17.4	18.3	12.4	13.5	13.1	14.3	15.1
3H	18.8	19.7	19.5	20.5	21.4	14.0	15.0	14.7	15.7	16.6
4H	20.4	21.3	21.1	22.1	23.0	14.6	15.5	15.4	16.3	17.2
6H	22.2	23.0	22.9	23.8	24.7	15.0	15.8	15.8	16.6	17.5
8H	23.1	23.8	23.9	24.6	25.6	15.1	15.9	15.9	16.6	17.6
12H	24.1	24.8	24.9	25.6	26.5	15.2	15.9	16.0	16.7	17.6
X=8H Y=4H	20.5	21.3	21.3	22.1	23.0	15.8	16.5	16.5	17.3	18.3
6H	22.4	23.1	23.2	23.9	24.8	16.4	17.1	17.2	17.9	18.8
8H	23.5	24.1	24.3	24.9	25.8	16.7	17.2	17.5	18.1	19.0
12H	24.6	25.1	25.4	26.0	27.0	16.8	17.3	17.6	18.2	19.2
X=12H Y=4H	20.5	21.2	21.3	22.0	22.9	16.2	16.8	16.9	17.6	18.6
6H	22.5	23.0	23.3	23.8	24.8	17.0	17.5	17.8	18.3	19.3
8H	23.5	24.1	24.3	24.9	25.9	17.3	17.8	18.1	18.6	19.7

Calculate in accordance with CIE 190:2010

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

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 = 1.50									
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	0.48	0.55	0.62	0.67	0.74	0.79	0.83	0.88	0.91	
	0.30		0.40	0.47	0.54	0.59	0.67	0.73	0.77	0.82	0.86	
	0.20		0.34	0.41	0.48	0.53	0.61	0.67	0.72	0.78	0.82	
0.50	0.50	0.20	0.44	0.51	0.57	0.61	0.67	0.72	0.75	0.79	0.82	
	0.30		0.37	0.44	0.50	0.55	0.62	0.66	0.70	0.75	0.79	
	0.20		0.32	0.39	0.45	0.50	0.57	0.62	0.66	0.71	0.75	
0.30	0.50	0.20	0.40	0.46	0.52	0.56	0.61	0.65	0.68	0.72	0.74	
	0.30		0.35	0.40	0.46	0.50	0.56	0.61	0.64	0.68	0.71	
	0.20		0.30	0.36	0.42	0.46	0.52	0.57	0.61	0.65	0.69	
0.00	0.00	0.00	0.26	0.31	0.36	0.40	0.45	0.49	0.52	0.56	0.59	
Rating:24W 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 = 1.50									
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	1.00	0.87	0.75	0.67	0.55	0.47	0.41	0.33	0.28	
	0.30		0.83	0.74	0.66	0.59	0.50	0.43	0.38	0.31	0.26	
	0.20		0.72	0.65	0.58	0.53	0.46	0.40	0.36	0.29	0.25	
0.50	0.50	0.20	0.92	0.79	0.69	0.61	0.51	0.45	0.38	0.30	0.26	
	0.30		0.78	0.69	0.61	0.55	0.46	0.40	0.35	0.29	0.24	
	0.20		0.67	0.61	0.55	0.50	0.43	0.37	0.33	0.28	0.23	
0.30	0.50	0.20	0.84	0.73	0.63	0.56	0.46	0.40	0.35	0.28	0.24	
	0.30		0.72	0.64	0.56	0.51	0.43	0.37	0.33	0.27	0.23	
	0.20		0.63	0.57	0.51	0.46	0.40	0.35	0.31	0.26	0.22	
0.00	0.00	0.00	0.50	0.45	0.40	0.37	0.31	0.27	0.24	0.20	0.17	
Rating: 24W 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 = 1.50								
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	0.40	0.41	0.42	0.42	0.43	0.44	0.44	0.45	0.45
	0.30		0.33	0.34	0.35	0.36	0.38	0.39	0.40	0.41	0.42
	0.20		0.28	0.29	0.30	0.31	0.33	0.35	0.36	0.37	0.38
0.50	0.50	0.20	0.38	0.40	0.40	0.41	0.42	0.42	0.42	0.43	0.43
	0.30		0.32	0.33	0.35	0.35	0.37	0.38	0.38	0.39	0.40
	0.20		0.28	0.29	0.30	0.31	0.33	0.34	0.35	0.36	0.37
0.30	0.50	0.20	0.37	0.38	0.39	0.39	0.40	0.40	0.41	0.41	0.41
	0.30		0.31	0.33	0.34	0.34	0.36	0.36	0.37	0.38	0.39
	0.20		0.27	0.28	0.30	0.30	0.32	0.33	0.34	0.35	0.36
0.00	0.00	0.00	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
Rating:24W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											