

Report No.: 01

Test Time: 2016/9/8 14:25

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: Linearlyte

Luminaire Description: PS3 3500K SO

Luminous Width (mm):

Voltage: 219.9 V

Power: 17.18 W

Luminous Length (mm): 600

Luminous Height (mm):

Current: 0.084 A

Power Factor: 0.930

Photometric Results

CIE Class: Direct

Measurement Flux: 1610.6 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(50%): H106

Vertical Diffuse Angle(50%): V107

Luminaire Efficacy Rating (LER): 94

Max. Intensity: 595 cd

Total Rated Lamp Lumens: 1610.6 lm

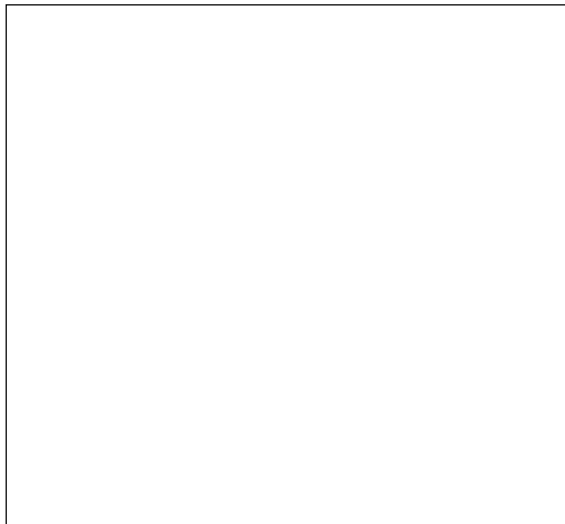
Efficiency: 100%

Upward Ratio: 1%

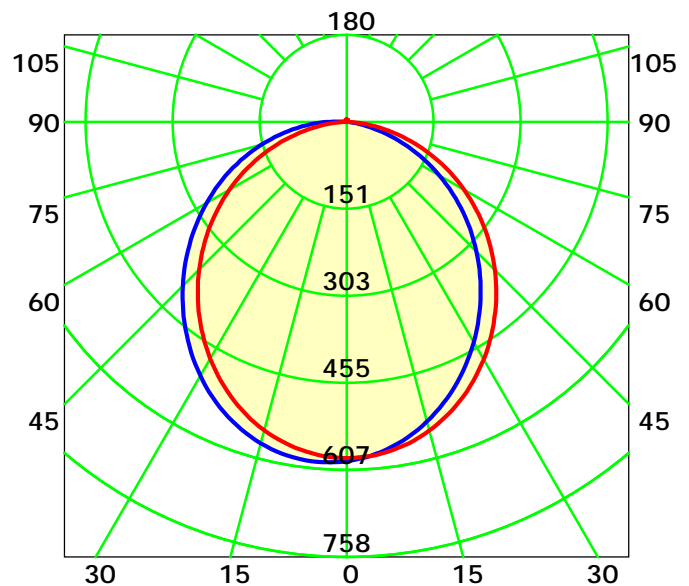
Central Intensity: 591.66 cd

Pos of Max. Intensity: H180 V5

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 106.5° 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

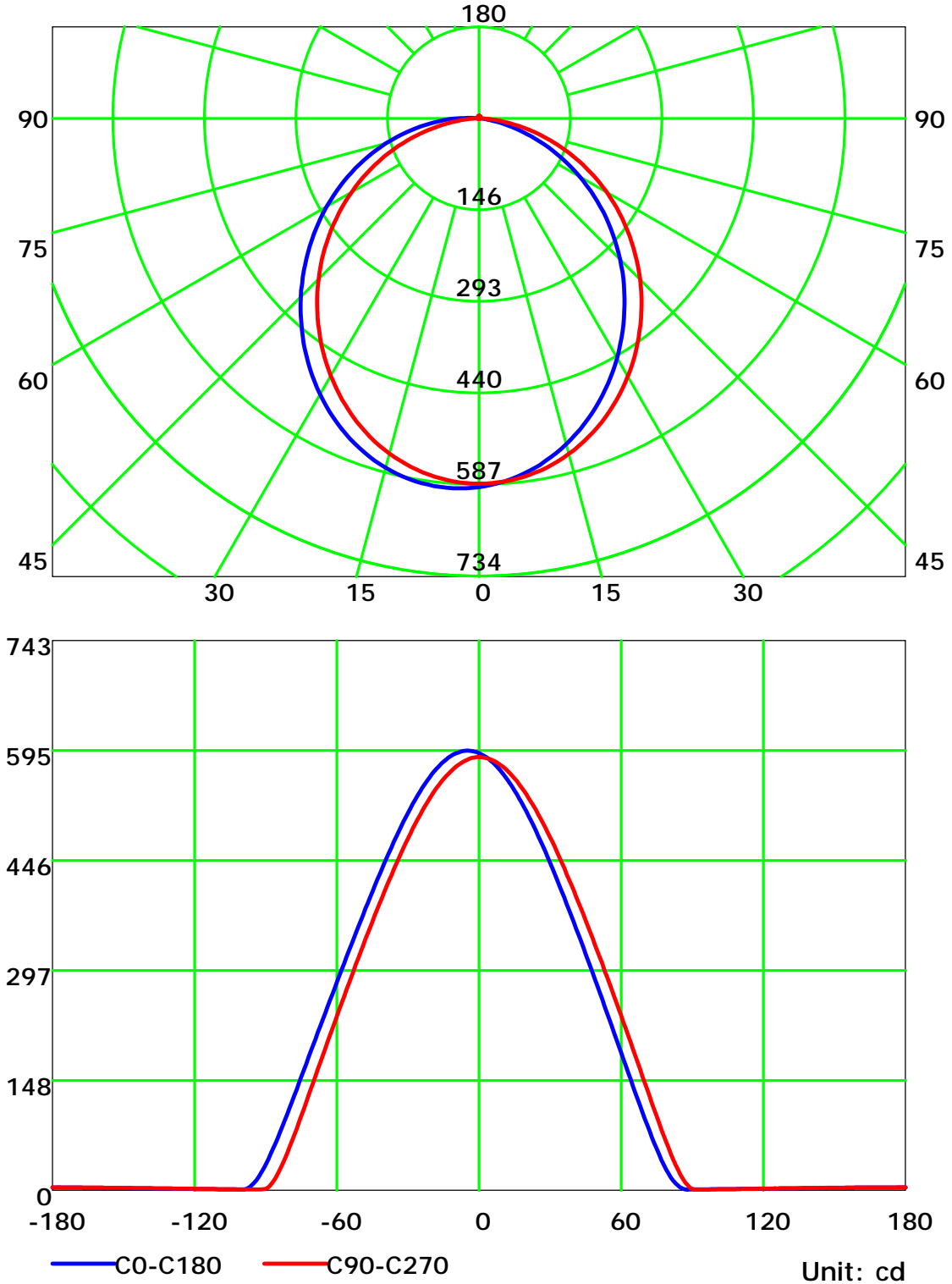
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

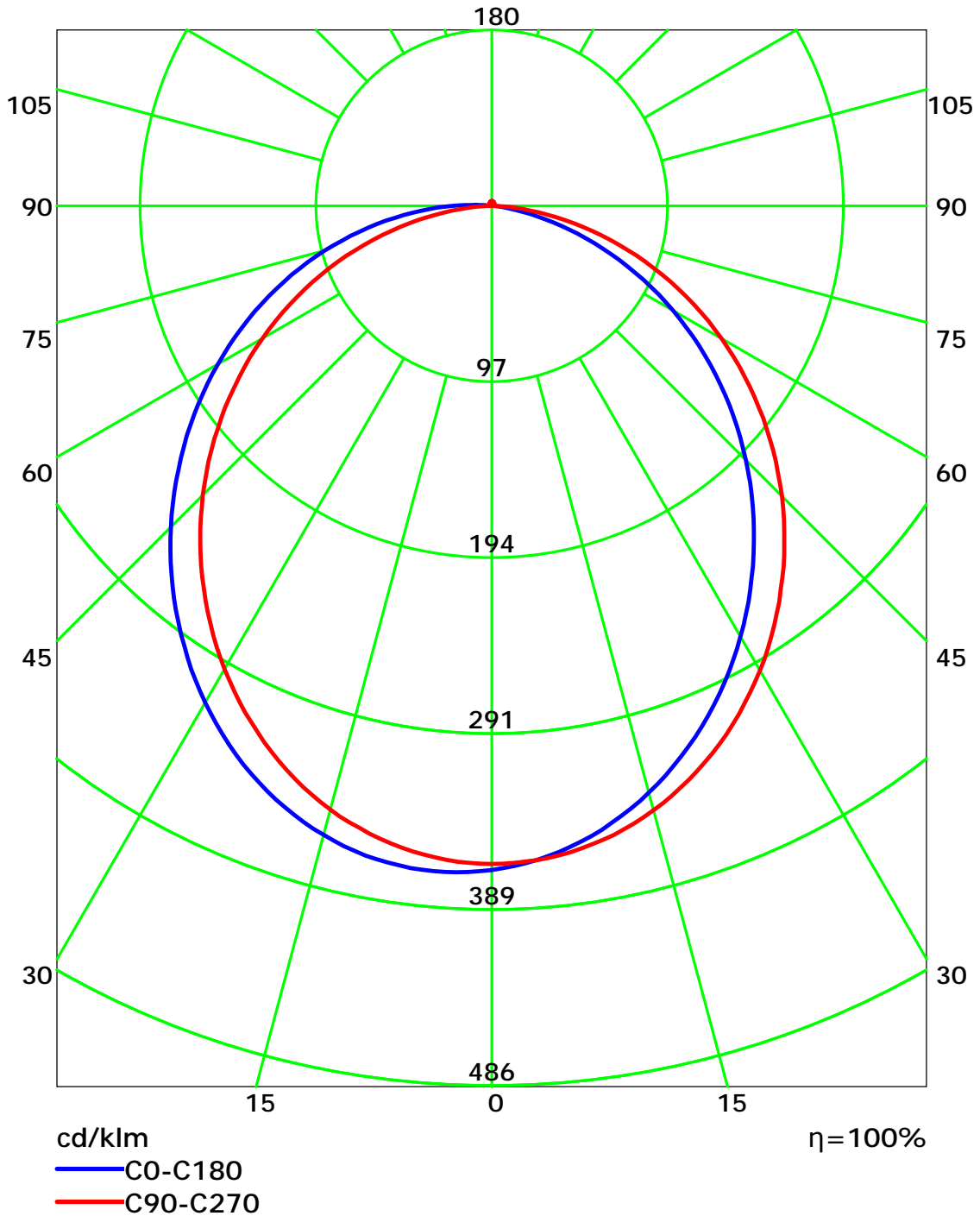
Luminous Intensity Distribution Curve



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:

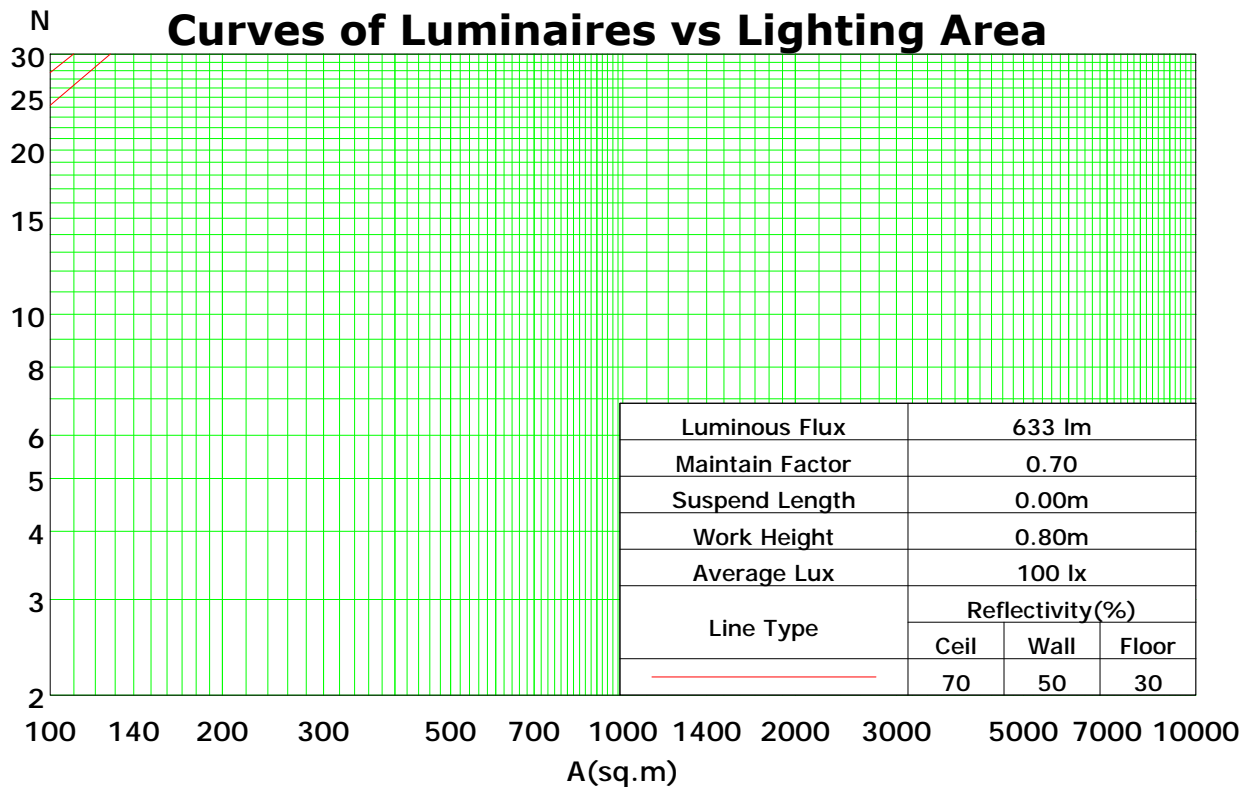
Coefficients Of Utilization - Zonal Cavity Method

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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101	99
1	108	103	99	95	105	101	97	94	97	93	90	92	90	87	89	87	85	82
2	99	90	83	78	96	88	82	77	84	79	75	81	77	73	78	74	71	69
3	90	79	71	65	87	78	70	64	74	68	63	71	66	61	69	64	60	58
4	82	70	62	55	80	69	61	54	66	59	53	64	58	53	61	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	55	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	38
7	65	51	43	37	63	51	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	33	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	57	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

Spacing Criteria (0-180): 1.20

Spacing Criteria (90-270): 1.21

Spacing Criteria (Diagonal): 1.32



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

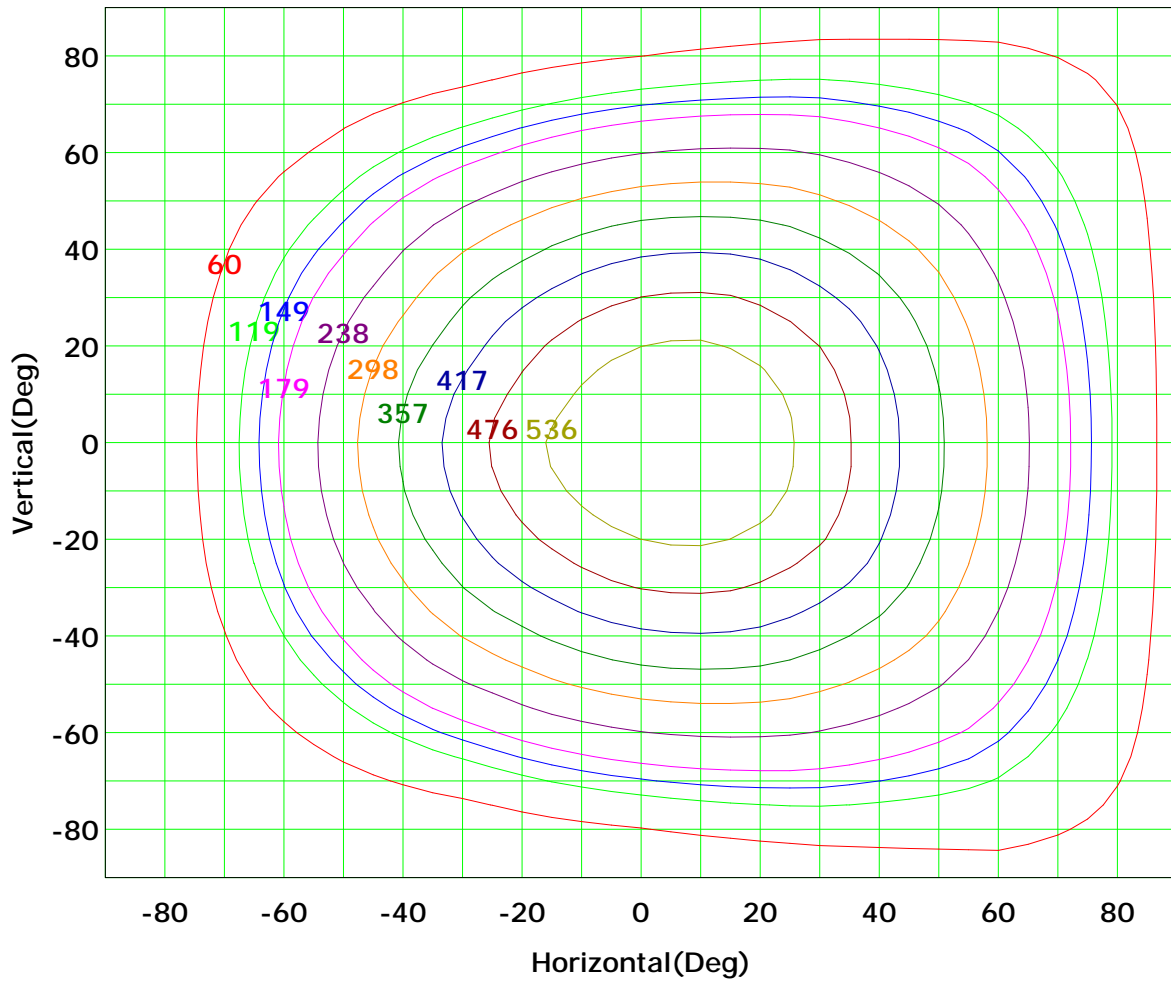
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



I_{max} (100%): 595 cd

(10%): 60 cd	(20%): 119 cd
(25%): 149 cd	(30%): 179 cd
(40%): 238 cd	(50%): 298 cd
(60%): 357 cd	(70%): 417 cd
(80%): 476 cd	(90%): 536 cd

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

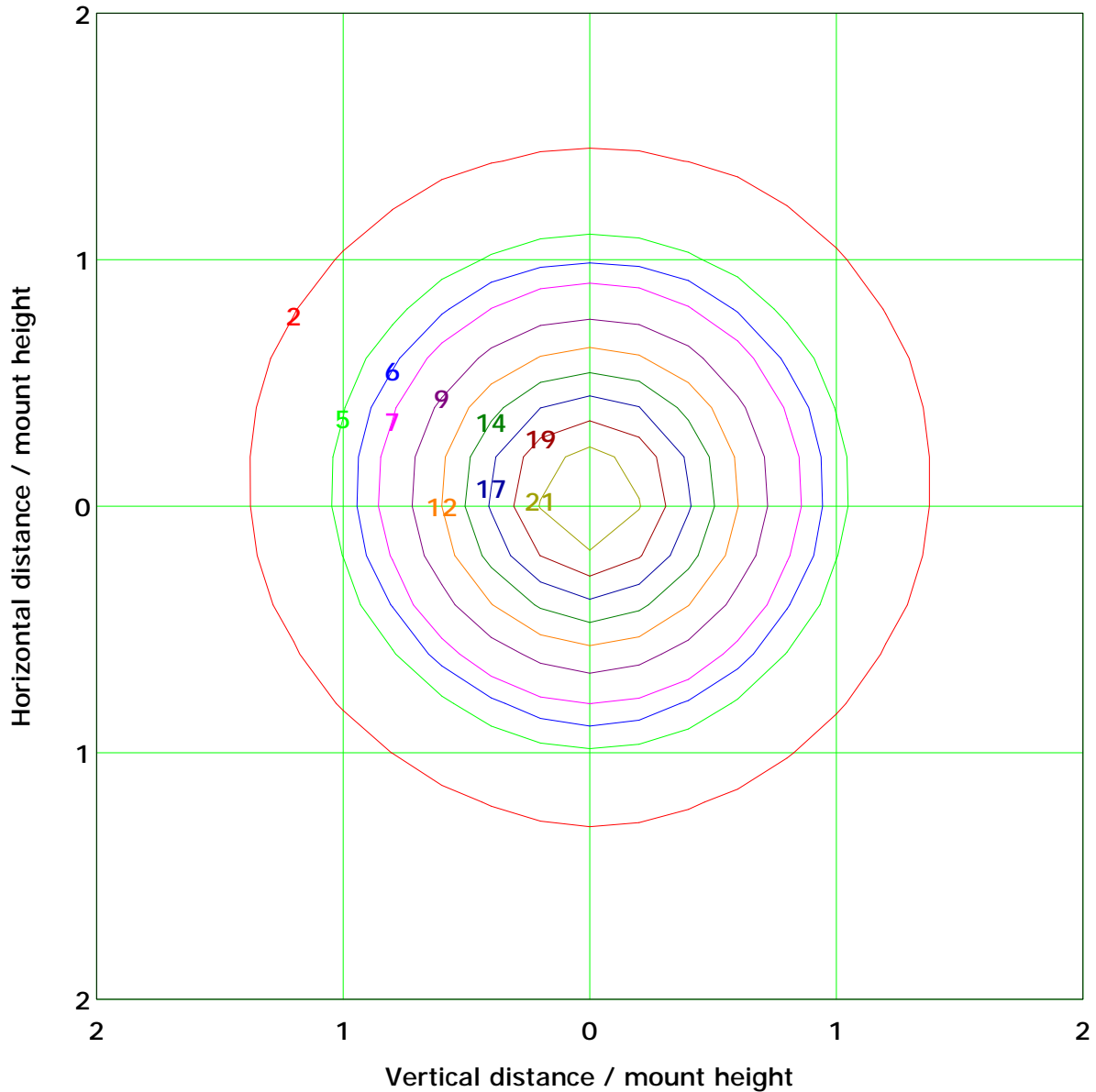
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 23.7 lx

(10%): 2.4 lx	(20%): 4.7 lx
(25%): 5.9 lx	(30%): 7.1 lx
(40%): 9.5 lx	(50%): 11.9 lx
(60%): 14.2 lx	(70%): 16.6 lx
(80%): 19.0 lx	(90%): 21.3 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

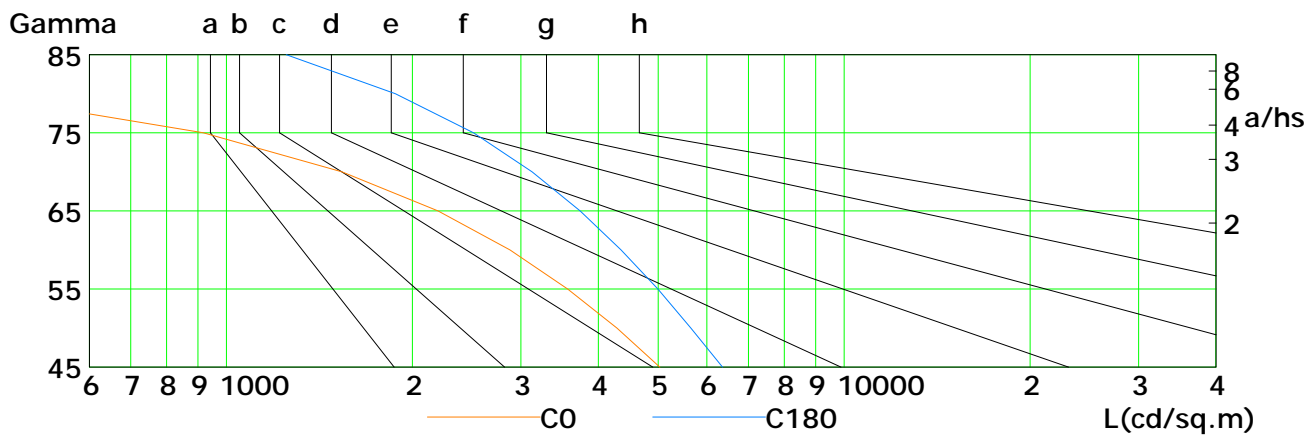
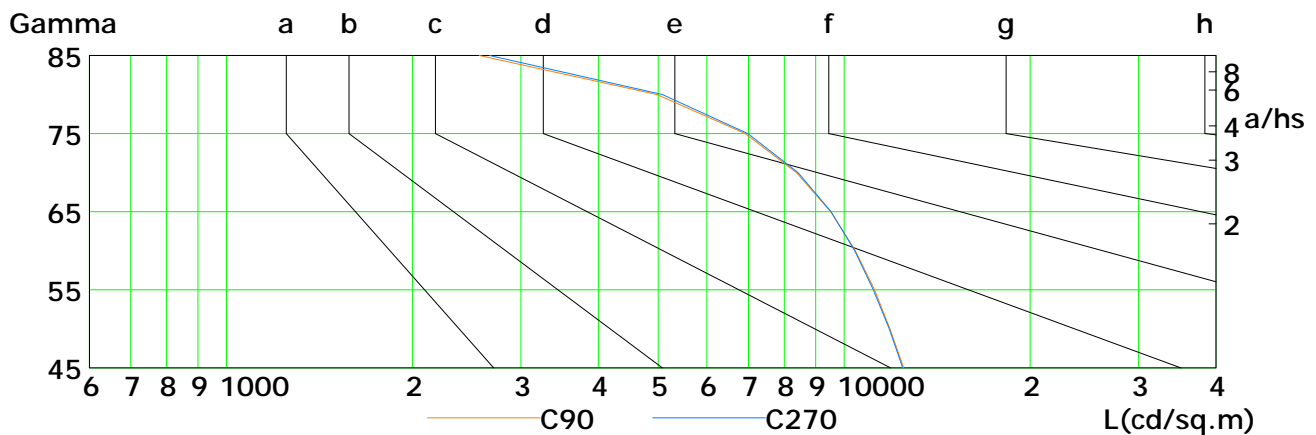
Humidity: 60%

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	5034	4290	3571	2879	2201	1539	918	386	77
C90	12497	11868	11201	10426	9515	8376	6922	4978	2568
C180	6357	5652	4995	4355	3740	3127	2512	1877	1250
C270	12451	11845	11153	10402	9530	8428	6983	5082	2669

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

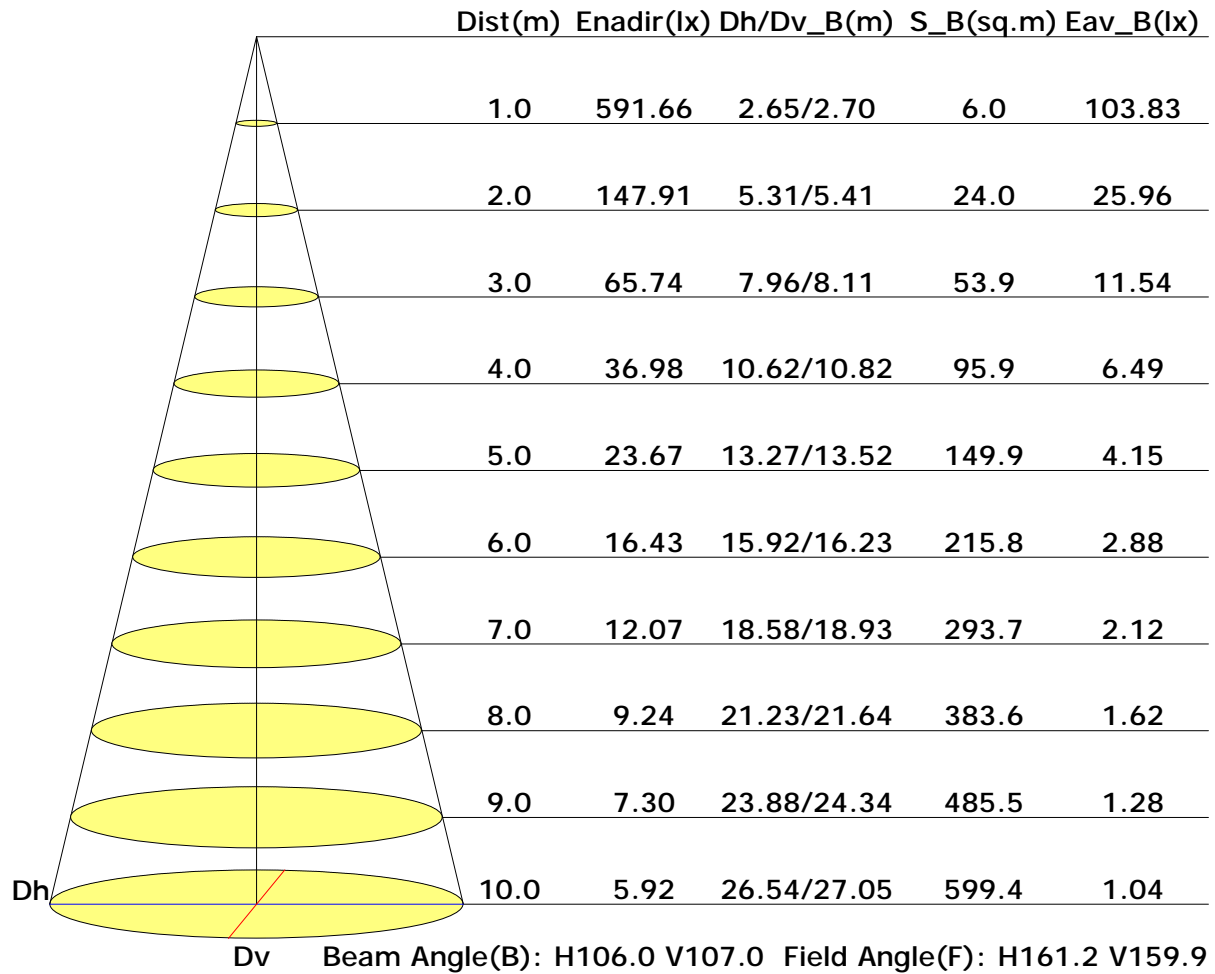
Test Device: GPM-1800B

Distance: 9.028 m

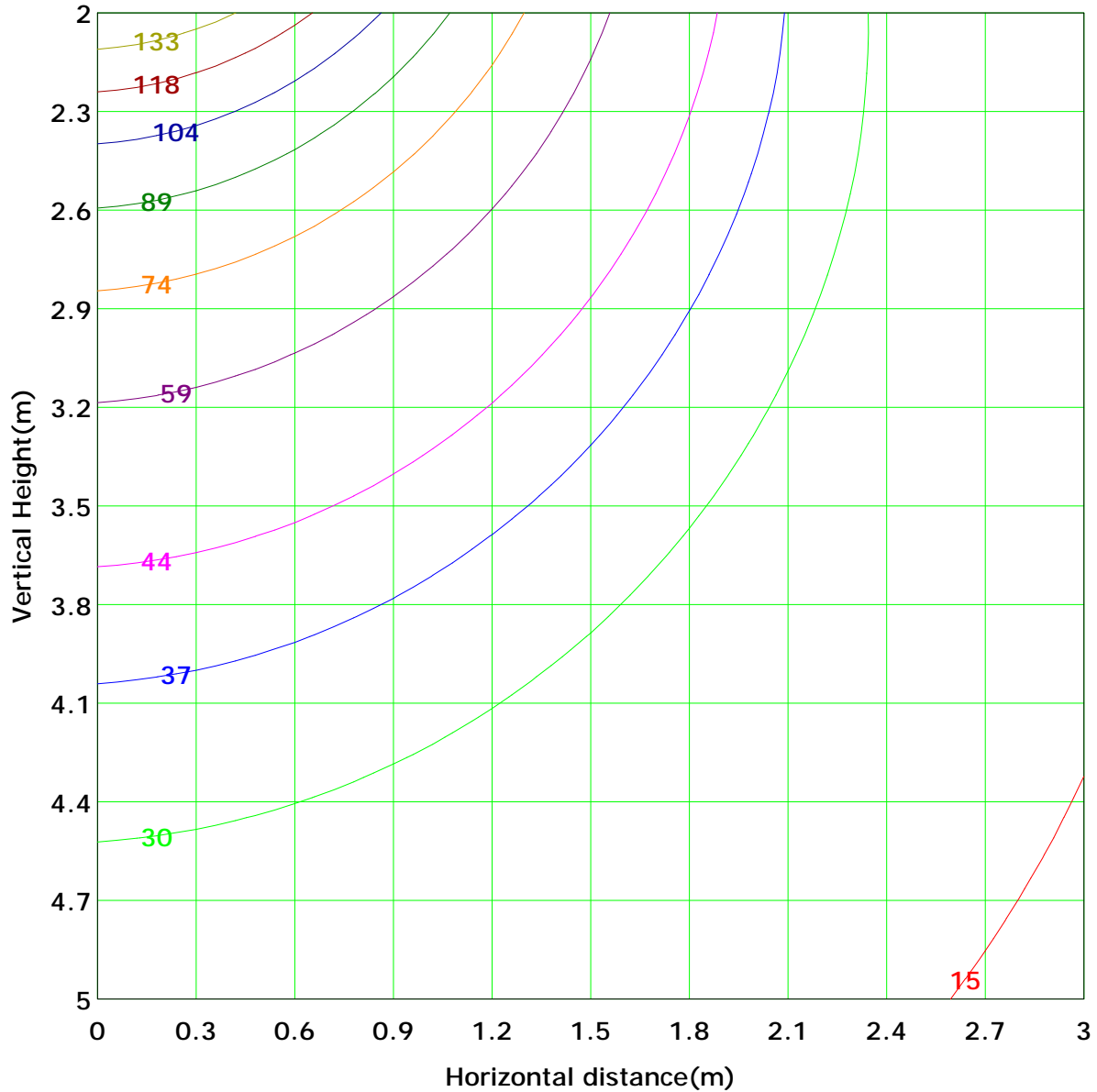
Humidity: 60%

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 147.9 lx
(10%): 14.8 lx	(20%): 29.6 lx	
(25%): 37.0 lx	(30%): 44.4 lx	
(40%): 59.2 lx	(50%): 74.0 lx	
(60%): 88.7 lx	(70%): 103.5 lx	
(80%): 118.3 lx	(90%): 133.1 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

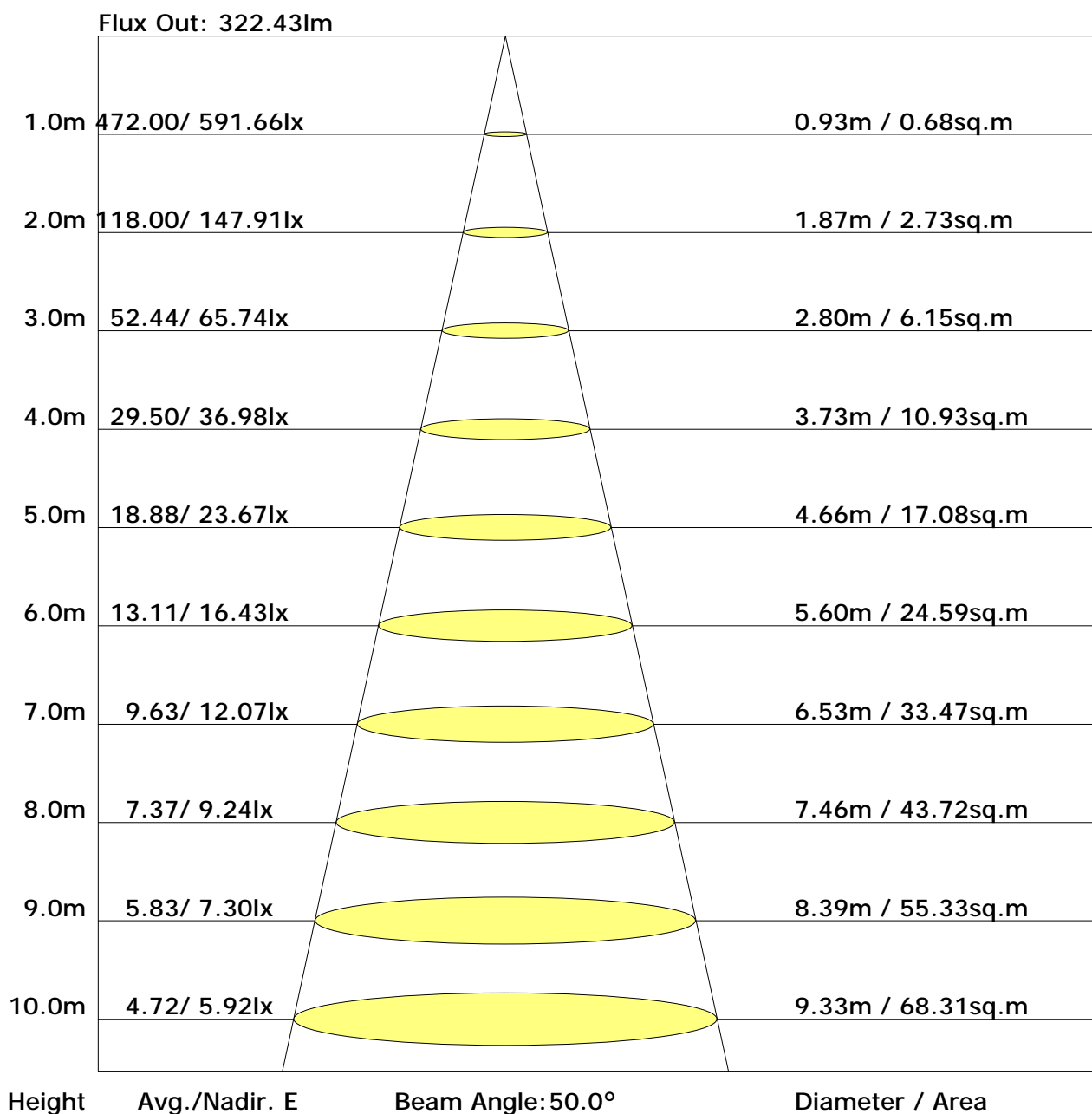
Unit: lm

Vertical plane		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)
		0.1	0.3	0.6	0.9	1.1	1.2	1.3	1.3	1.1	0.9	0.7	0.5	0.3	0.1	0.1	0.0	0.0	0.0	0.0	9.4	2.5
		0.1	0.5	1.0	1.7	2.3	2.9	3.3	3.4	3.3	2.9	2.3	1.7	1.1	0.6	0.2	0.1	0.0	0.0	0.0	27.5	24.4
		0.1	0.7	1.5	2.5	3.6	4.7	5.5	5.9	6.0	5.6	4.8	3.7	2.7	1.6	0.8	0.3	0.1	0.0	0.0	50.1	48.8
		0.2	0.8	1.9	3.3	4.9	6.4	7.7	8.5	8.6	8.2	7.2	5.8	4.3	2.8	1.5	0.6	0.1	0.0	0.0	72.9	72.2
		0.2	0.9	2.3	4.1	6.0	8.0	9.8	10.8	11.2	10.7	9.5	7.8	5.9	3.9	2.2	0.9	0.2	0.0	0.0	94.5	94.1
		0.2	1.1	2.6	4.7	7.1	9.5	11.6	13.0	13.5	13.0	11.6	9.6	7.3	4.9	2.8	1.3	0.3	0.0	0.0	114.0	113.7
		0.2	1.1	2.8	5.1	7.9	10.6	13.1	14.9	15.5	15.0	13.4	11.1	8.4	5.8	3.4	1.5	0.4	0.0	0.0	130.4	130.1
		0.2	1.2	3.0	5.5	8.4	11.5	14.2	16.2	17.0	16.4	14.7	12.2	9.4	6.4	3.8	1.7	0.4	0.0	0.0	142.4	142.2
		0.2	1.2	3.1	5.7	8.7	11.9	14.8	16.9	17.8	17.3	15.6	13.0	9.9	6.8	4.0	1.8	0.5	0.0	0.0	149.3	149.1
		0.2	1.2	3.1	5.7	8.7	11.9	14.8	16.9	17.8	17.3	15.7	13.1	10.0	6.9	4.0	1.8	0.5	0.0	0.0	149.8	149.6
		0.2	1.2	3.1	5.7	8.7	11.9	14.8	16.9	17.8	17.3	15.7	13.1	10.0	6.9	4.0	1.8	0.5	0.0	0.0	143.7	143.5
		0.2	1.2	3.0	5.5	8.5	11.6	14.4	16.3	17.0	16.5	14.9	12.4	9.5	6.5	3.9	1.7	0.5	0.0	0.0	131.9	131.6
		0.2	1.2	2.9	5.2	8.0	10.8	13.2	14.9	15.6	15.0	13.5	11.3	8.6	5.9	3.5	1.6	0.4	0.0	0.0	115.6	115.3
		0.2	1.1	2.6	4.8	7.2	9.6	11.7	13.1	13.6	13.1	11.7	9.8	7.5	5.1	3.0	1.3	0.3	0.0	0.0	95.9	95.5
		0.2	1.0	2.3	4.2	6.2	8.1	9.8	10.9	11.2	10.8	9.6	7.9	6.1	4.1	2.3	1.0	0.2	0.0	0.0	74.0	73.4
		0.2	0.8	2.0	3.4	5.0	6.5	7.8	8.5	8.7	8.2	7.3	5.9	4.4	2.9	1.6	0.6	0.1	0.0	0.0	50.8	49.6
		0.1	0.7	1.5	2.6	3.7	4.8	5.6	6.0	6.0	5.6	4.8	3.8	2.7	1.7	0.9	0.3	0.1	0.0	0.0	27.9	24.8
		0.1	0.5	1.1	1.8	2.4	3.0	3.3	3.4	3.2	2.9	2.3	1.7	1.1	0.7	0.3	0.1	0.0	0.0	0.0	9.6	3.0
		0.1	0.4	0.7	1.0	1.2	1.3	1.3	1.1	0.9	0.7	0.5	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	1590	
		3.2	16.0	38.1	67.6	100.8	134.2	163.1	182.0	187.7	179.8	160.0	131.6	99.2	66.9	38.3	16.7	4.2	0.3	0.0		1563
		2.2	15.0	37.2	66.6	99.6	132.9	161.7	180.4	186.1	178.2	158.3	129.8	97.5	65.1	36.4	14.7	1.7	0.0	0.0		

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	15.4	17.0	15.8	17.4	17.7	15.2	16.8	15.6	17.2	17.5
3H	16.7	18.2	17.1	18.5	18.9	16.5	18.0	16.9	18.3	18.7
4H	17.0	18.4	17.4	18.8	19.2	16.9	18.3	17.3	18.7	19.1
6H	17.1	18.4	17.6	18.8	19.2	17.1	18.4	17.6	18.8	19.2
8H	17.1	18.3	17.6	18.8	19.2	17.2	18.4	17.6	18.8	19.2
12H	17.1	18.3	17.6	18.7	19.1	17.2	18.3	17.6	18.7	19.2
X=4H Y=2H	15.7	17.1	16.1	17.4	17.8	15.9	17.2	16.3	17.6	18.0
3H	17.1	18.2	17.5	18.6	19.1	17.4	18.5	17.8	18.9	19.4
4H	17.4	18.5	17.9	18.9	19.4	17.8	18.9	18.3	19.3	19.8
6H	17.6	18.5	18.0	18.9	19.4	18.1	19.0	18.6	19.5	20.0
8H	17.6	18.4	18.0	18.9	19.4	18.2	19.0	18.7	19.5	20.0
12H	17.5	18.3	18.0	18.8	19.3	18.2	19.0	18.7	19.5	20.0
X=8H Y=4H	17.4	18.3	17.9	18.8	19.3	18.2	19.0	18.6	19.5	20.0
6H	17.6	18.3	18.1	18.8	19.3	18.5	19.2	19.0	19.7	20.3
8H	17.6	18.2	18.1	18.8	19.3	18.6	19.3	19.2	19.8	20.3
12H	17.6	18.1	18.1	18.7	19.2	18.7	19.2	19.2	19.8	20.3
X=12H Y=4H	17.4	18.2	17.9	18.7	19.2	18.2	19.0	18.7	19.5	20.0
6H	17.6	18.2	18.1	18.7	19.3	18.6	19.3	19.2	19.7	20.3
8H	17.6	18.1	18.1	18.7	19.2	18.7	19.3	19.3	19.8	20.4

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 = 1.25								
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	0.57	0.67	0.74	0.79	0.87	0.92	0.95	1.00	1.03
	0.30		0.49	0.59	0.67	0.72	0.81	0.86	0.90	0.96	0.99
	0.20		0.43	0.54	0.61	0.67	0.75	0.81	0.86	0.92	0.96
0.50	0.50	0.20	0.55	0.65	0.72	0.77	0.83	0.88	0.91	0.96	0.98
	0.30		0.48	0.58	0.65	0.71	0.78	0.83	0.87	0.92	0.95
	0.20		0.43	0.53	0.60	0.66	0.74	0.79	0.83	0.89	0.93
0.30	0.50	0.20	0.54	0.63	0.69	0.74	0.80	0.85	0.88	0.92	0.94
	0.30		0.47	0.57	0.64	0.69	0.76	0.81	0.84	0.89	0.92
	0.20		0.43	0.52	0.59	0.65	0.72	0.77	0.81	0.86	0.90
0.00	0.00	0.00	0.40	0.50	0.56	0.61	0.68	0.73	0.77	0.82	0.85
Rating: 17W 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 = 1.25								
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	0.99	0.82	0.70	0.61	0.49	0.41	0.35	0.27	0.22
	0.30		0.83	0.70	0.61	0.54	0.44	0.37	0.32	0.25	0.21
	0.20		0.71	0.61	0.54	0.48	0.40	0.34	0.30	0.24	0.20
0.50	0.50	0.20	0.95	0.78	0.67	0.58	0.46	0.42	0.33	0.26	0.21
	0.30		0.81	0.68	0.59	0.52	0.42	0.36	0.31	0.24	0.20
	0.20		0.70	0.60	0.53	0.47	0.39	0.33	0.29	0.23	0.19
0.30	0.50	0.20	0.92	0.75	0.64	0.56	0.44	0.37	0.31	0.24	0.20
	0.30		0.79	0.66	0.57	0.50	0.41	0.34	0.30	0.23	0.19
	0.20		0.69	0.59	0.52	0.46	0.38	0.32	0.28	0.22	0.19
0.00	0.00	0.00	0.59	0.49	0.43	0.38	0.30	0.26	0.22	0.17	0.14
Rating: 17W 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 = 1.25								
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	0.17	0.19	0.20	0.20	0.21	0.22	0.22	0.23	0.23
	0.30		0.11	0.12	0.14	0.15	0.16	0.17	0.18	0.20	0.20
	0.20		0.06	0.07	0.09	0.10	0.12	0.14	0.15	0.17	0.18
0.50	0.50	0.20	0.17	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	0.07	0.09	0.10	0.12	0.13	0.15	0.16	0.17
0.30	0.50	0.20	0.16	0.17	0.18	0.19	0.20	0.20	0.20	0.21	0.21
	0.30		0.10	0.12	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	0.14	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: 17W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											