

Report No.: 01

Test Time: 2016/12/22 13:32

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: LINEARLYTE

Luminaire Description: PR2 3500K HO

Luminous Length (mm): 600mm

Luminous Height (mm):

Current: 0.088 A

Power Factor: 0.932

Luminous Width (mm):

Voltage: 219.7 V

Power: 18.04 W

Photometric Results

CIE Class: Direct

Measurement Flux: 1087.3 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(50%): H104.7

Vertical Diffuse Angle(50%): V100.5

Luminaire Efficacy Rating (LER): 60

Max. Intensity: 435.4 cd

Total Rated Lamp Lumens: 1087.3 lm

Efficiency: 100%

Upward Ratio: 1%

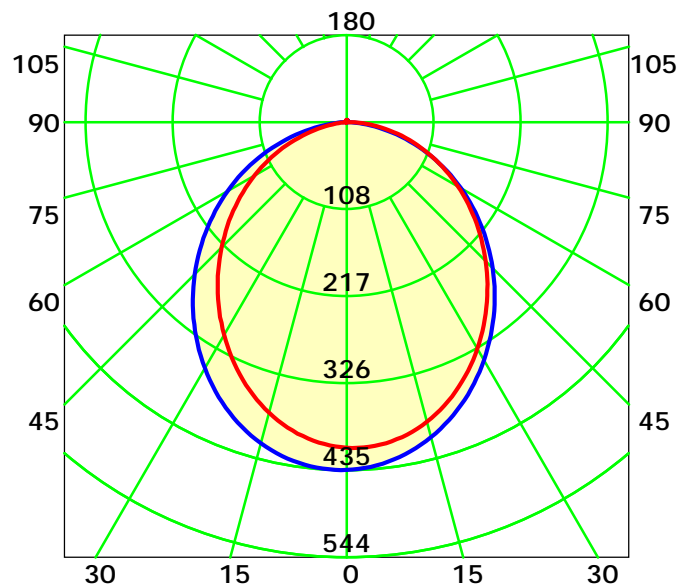
Central Intensity: 434.92 cd

Pos of Max. Intensity: H20 V0

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 102.6° Unit: cd

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 10.0

Test Lab: ACOLYTE

Test Type: TYPE C

Temperature: 25°C

Operator: leo

Gamma Plane (°):0.0-180.0: 1.0

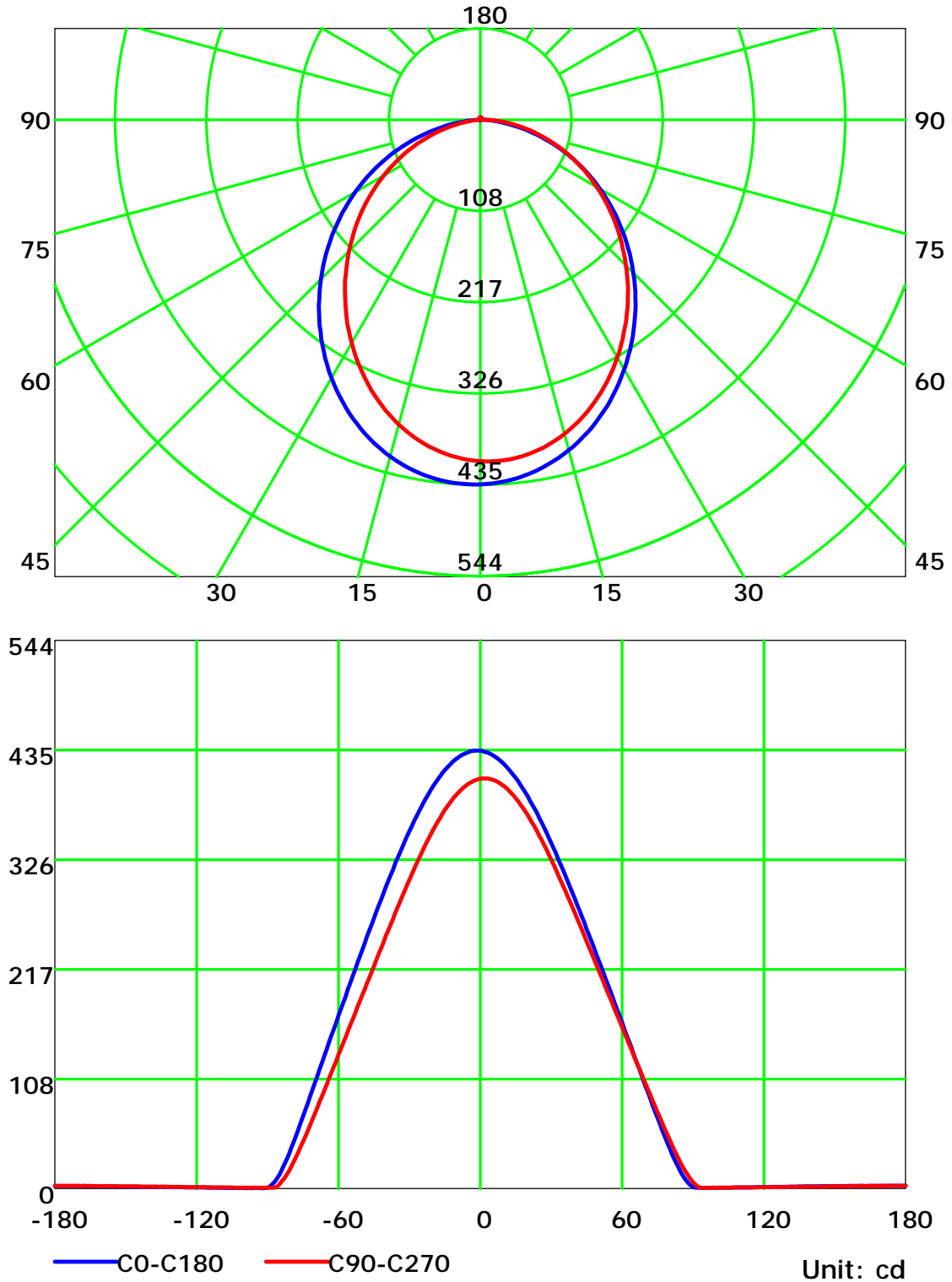
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

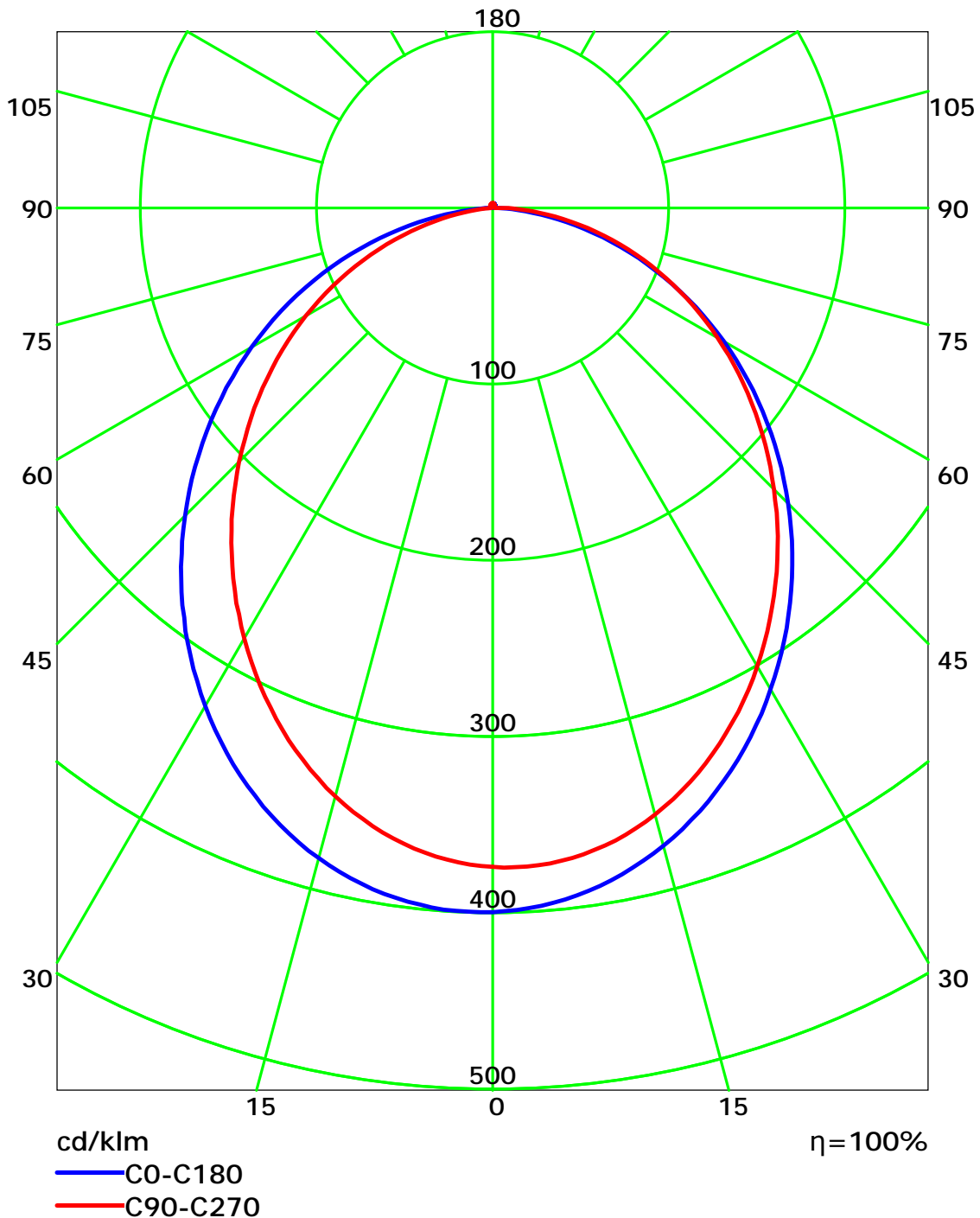
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 10.0
Test Lab: ACOLYTE
Test Type: TYPE C
Temperature: 25°C
Operator: leo

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: 10.0
Test Lab: ACOLYTE
Test Type: TYPE C
Temperature: 25°C
Operator: leo

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

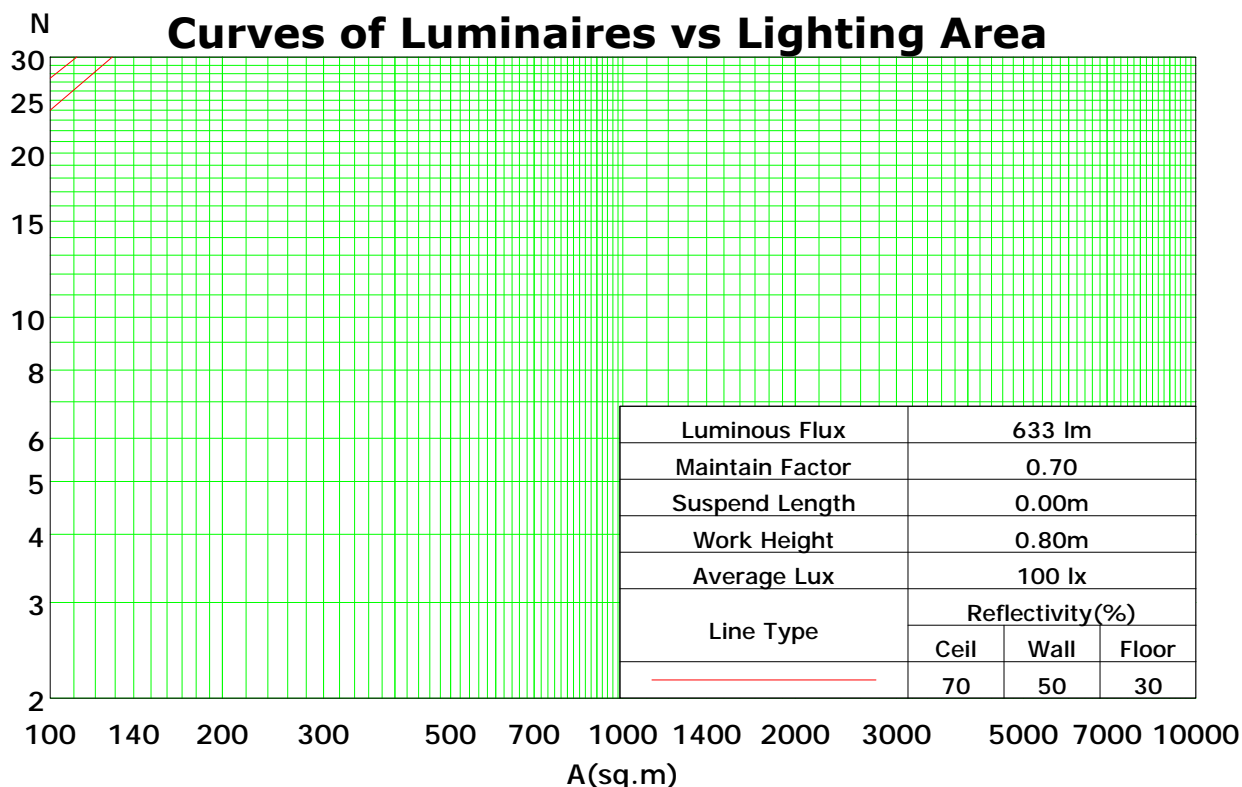
Coefficients Of Utilization - Zonal Cavity Method

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	106	106	106	101	101	101	99
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	89	87	85	83
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72	70
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	70	65	61	59
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	62	57	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	59	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

Spacing Criteria (0-180): 1.20

Spacing Criteria (90-270): 1.17

Spacing Criteria (Diagonal): 1.28



C Plane (°):0.0-360.0: 10.0

Test Lab: ACOLYTE

Test Type: TYPE C

Temperature: 25°C

Operator: leo

Gamma Plane (°):0.0-180.0:1.0

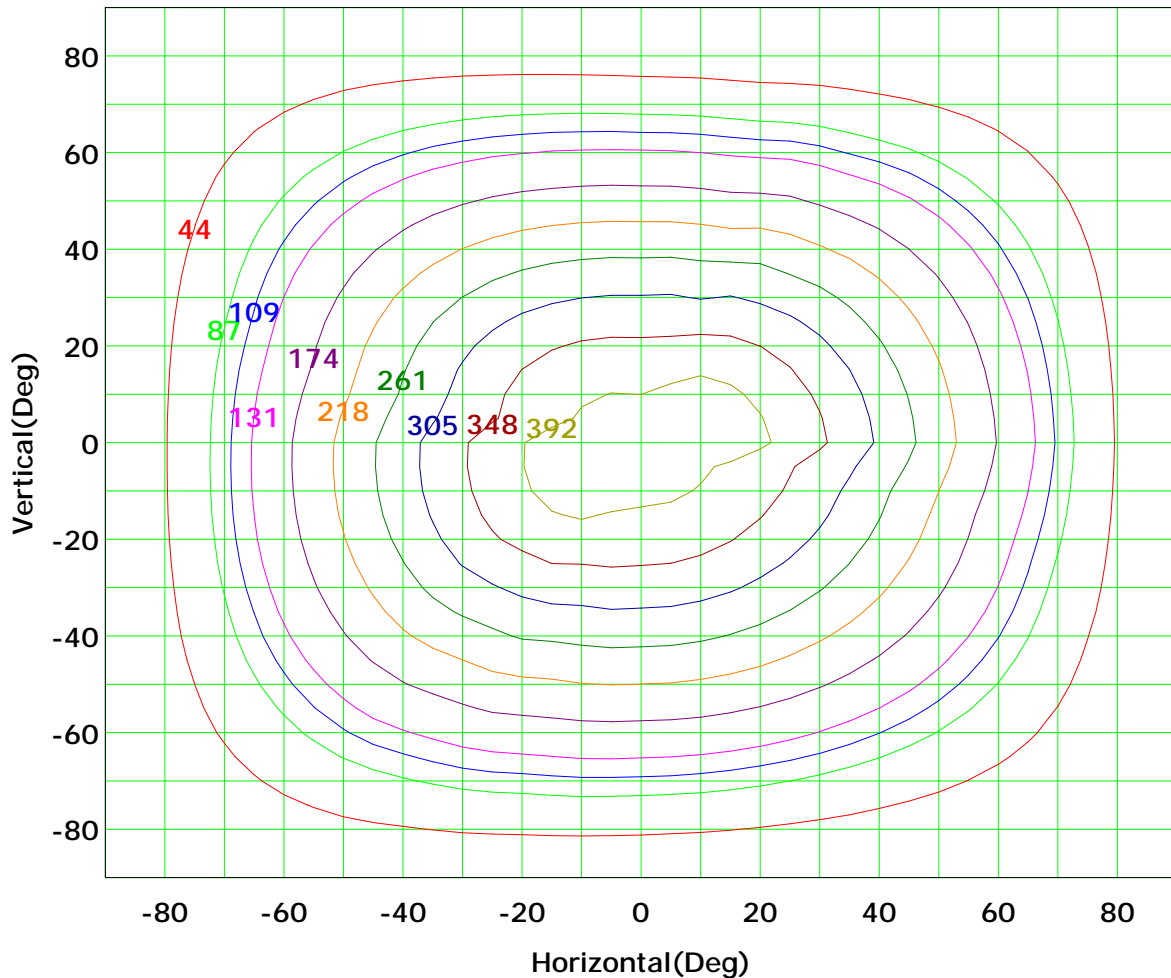
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



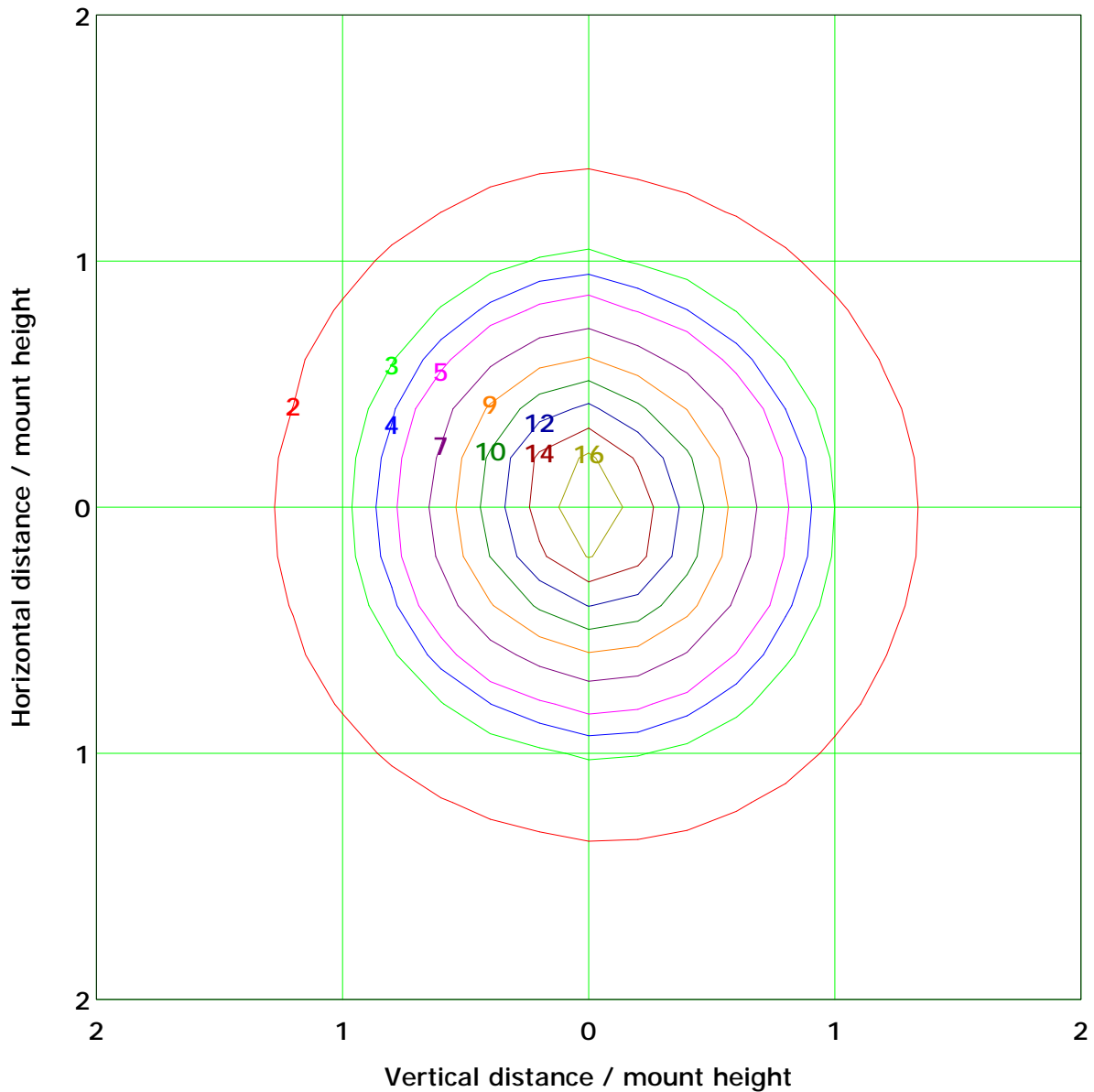
Imax (100%): 435 cd

(10%): 44 cd	(20%): 87 cd
(25%): 109 cd	(30%): 131 cd
(40%): 174 cd	(50%): 218 cd
(60%): 261 cd	(70%): 305 cd
(80%): 348 cd	(90%): 392 cd

C Plane (°):0.0-360.0: 10.0
Test Lab: ACOLYTE
Test Type: TYPE C
Temperature: 25°C
Operator: leo

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%): 17.4 lx	
(10%):	1.7 lx	(20%):	3.5 lx
(25%):	4.4 lx	(30%):	5.2 lx
(40%):	7.0 lx	(50%):	8.7 lx
(60%):	10.4 lx	(70%):	12.2 lx
(80%):	13.9 lx	(90%):	15.7 lx

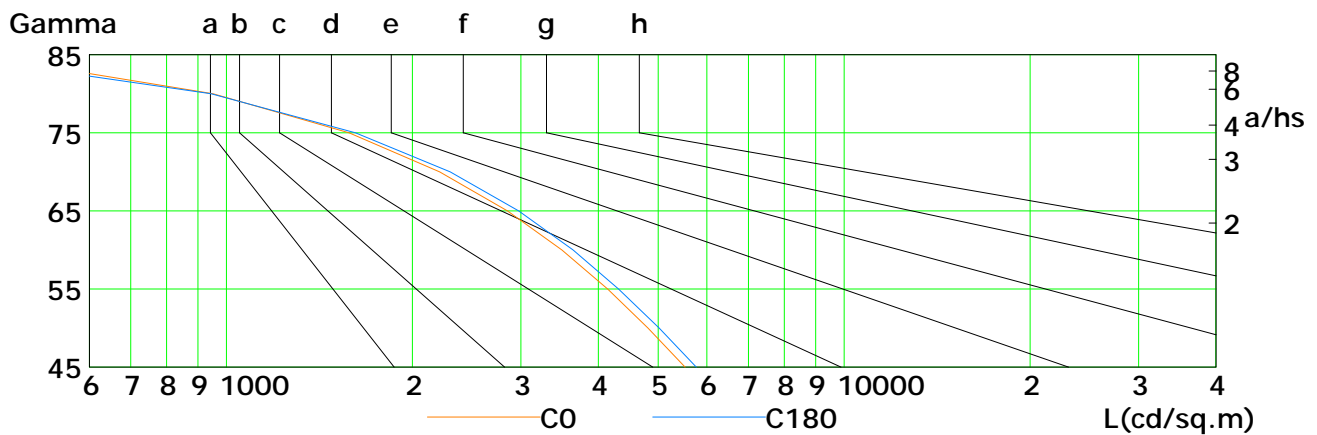
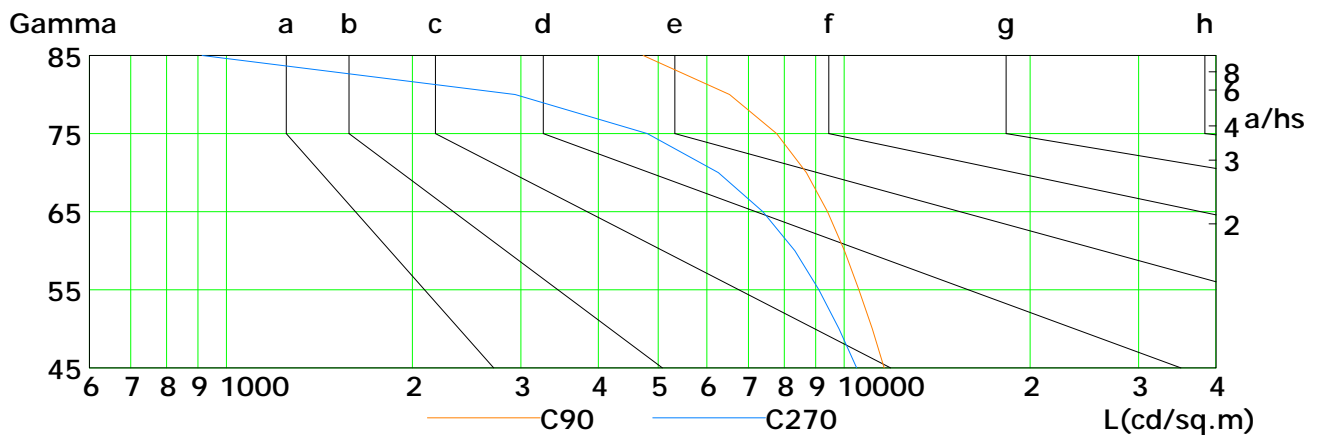
C Plane (°):0.0-360.0: 10.0
Test Lab: ACOLYTE
Test Type: TYPE C
Temperature: 25°C
Operator: leo

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	5532	4818	4145	3491	2851	2214	1581	952	395
C90	11619	11106	10570	10013	9400	8696	7778	6527	4727
C180	5762	5020	4313	3642	2974	2302	1617	944	350
C270	10477	9813	9101	8323	7387	6257	4805	2936	913

C Plane (°):0.0-360.0: 10.0

Test Lab: ACOLYTE

Test Type: TYPE C

Temperature: 25°C

Operator: leo

Gamma Plane (°):0.0-180.0: 1.0

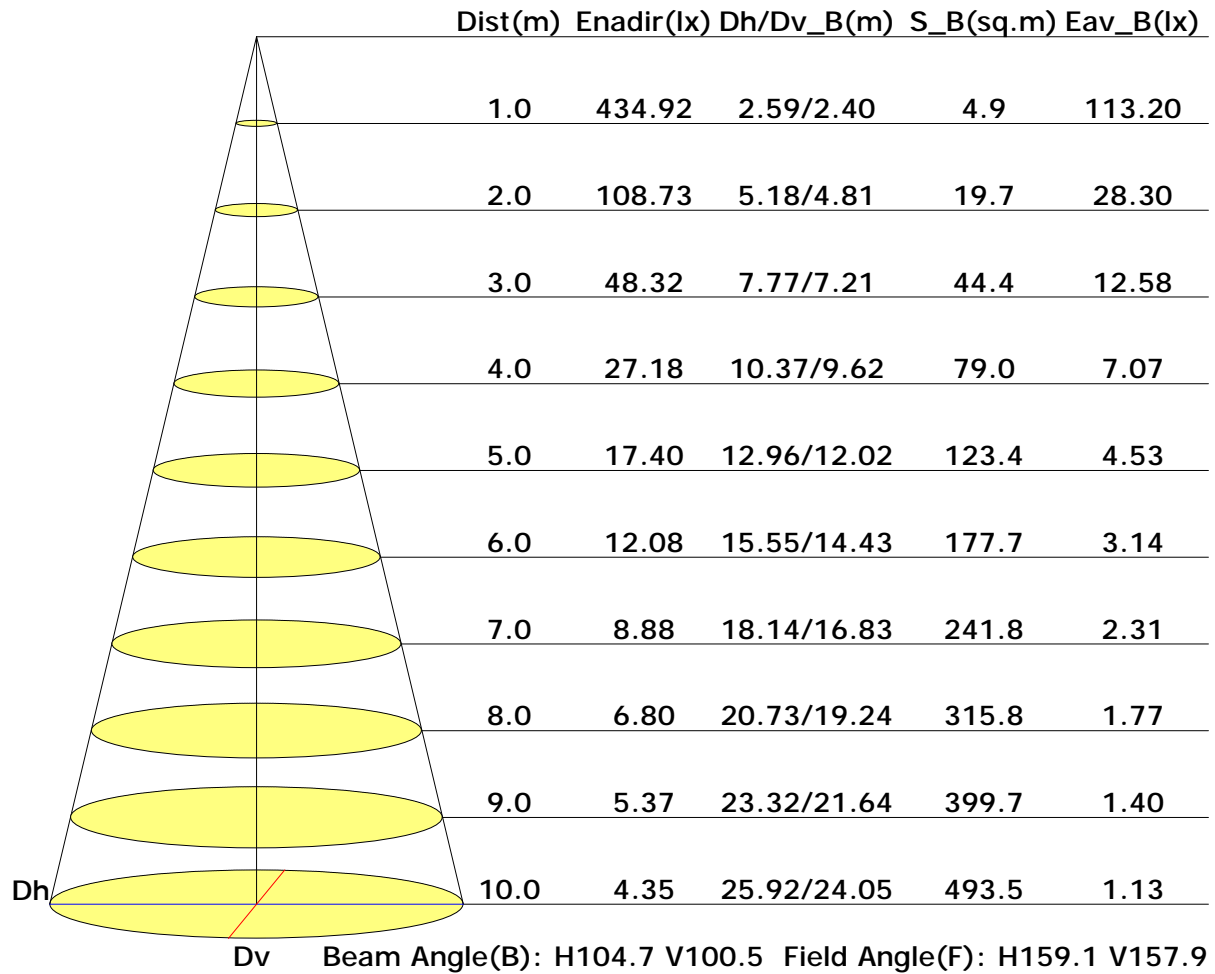
Test Device: GPM-1800B

Distance: 9.028 m

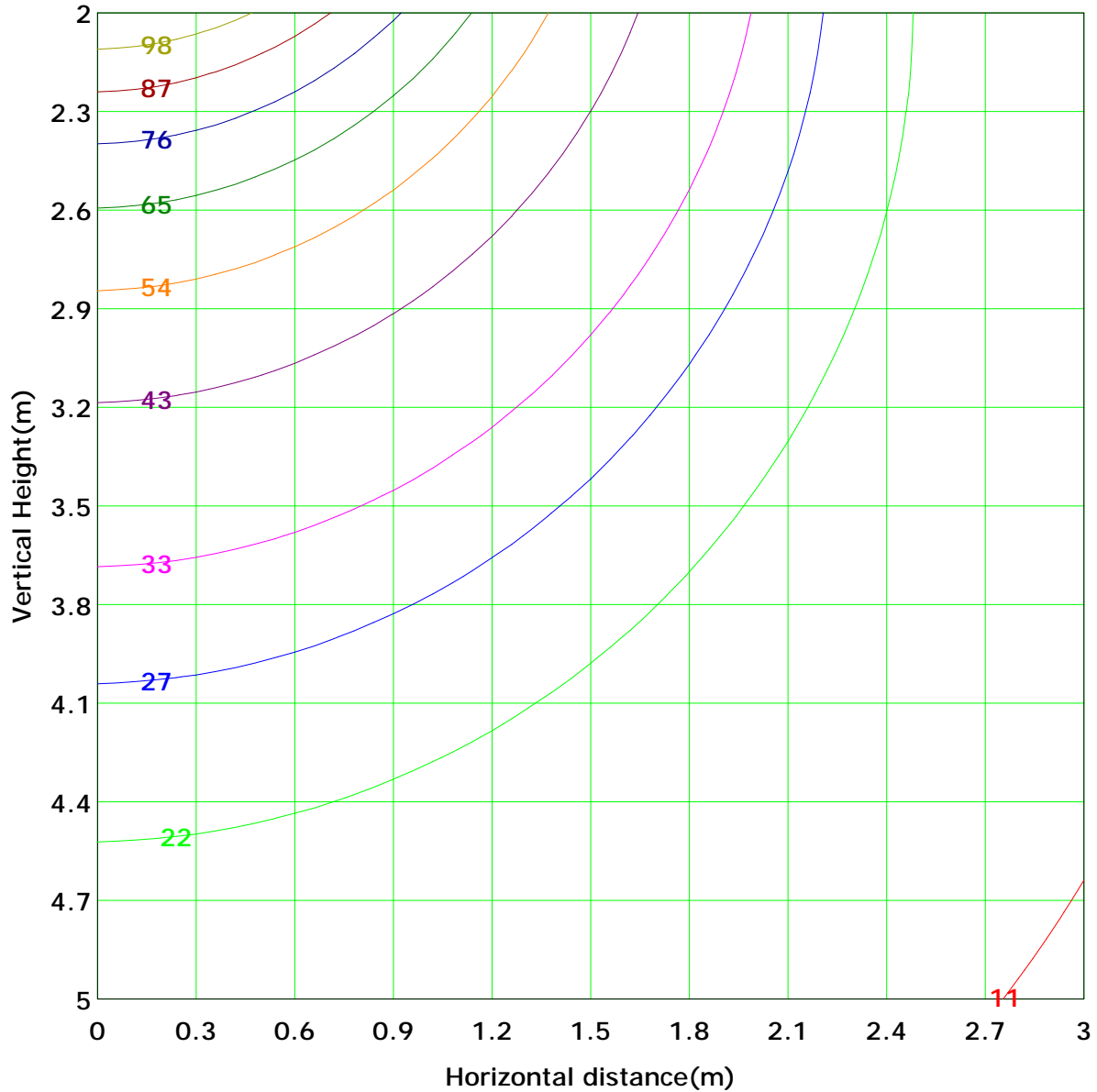
Humidity: 60%

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 108.7 lx
(10%): 10.9 lx	(20%): 21.7 lx	
(25%): 27.2 lx	(30%): 32.6 lx	
(40%): 43.5 lx	(50%): 54.4 lx	
(60%): 65.2 lx	(70%): 76.1 lx	
(80%): 87.0 lx	(90%): 97.9 lx	

C Plane (°):0.0-360.0: 10.0
Test Lab: ACOLYTE
Test Type: TYPE C
Temperature: 25°C
Operator: leo

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



Area Flux Table

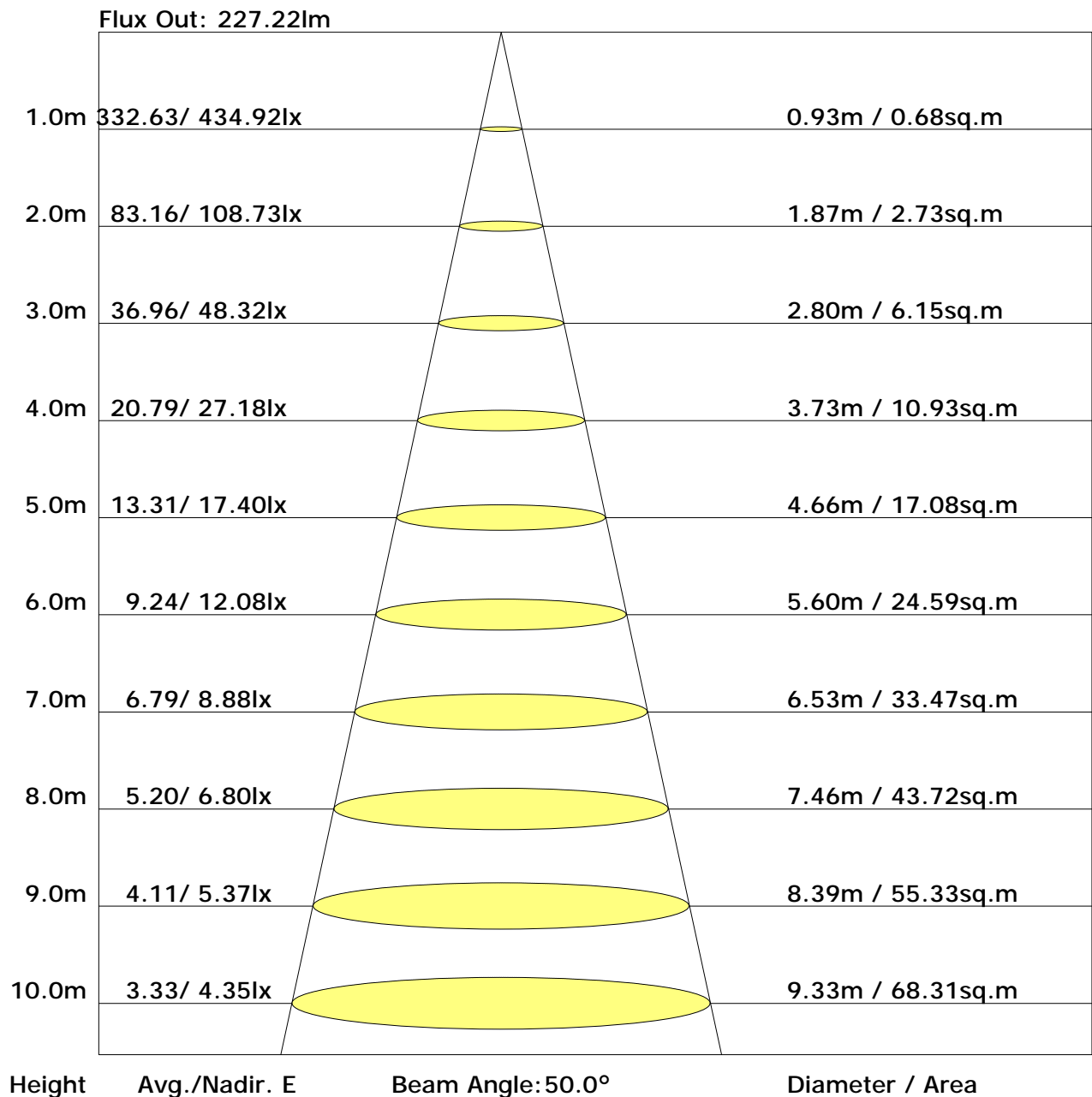
Unit: lm

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)
		0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.6	0.0
		0.0	0.1	0.2	0.4	0.6	0.9	0.9	0.5	0.6	1.8	1.8	1.6	1.5	1.3	1.0	0.8	0.5	0.1	0.0	5.6	4.1
		0.0	0.1	0.4	0.9	1.5	2.1	2.6	3.0	3.4	3.5	3.2	2.9	2.5	2.1	1.6	1.0	0.5	0.0	0.0	17.3	16.1
		0.0	0.2	0.7	1.5	2.4	3.3	4.2	4.9	5.4	5.7	5.1	4.6	4.0	3.3	2.5	1.7	0.9	0.0	0.0	34.8	33.5
		0.0	0.3	1.0	2.1	3.3	4.6	5.8	6.8	7.6	8.1	7.2	6.5	5.6	4.6	3.6	2.4	1.3	0.0	0.0	56.0	54.8
		0.0	0.4	1.3	2.6	4.2	5.7	7.2	8.5	9.6	10.3	9.1	8.3	7.2	5.9	4.5	3.1	1.7	0.0	0.0	78.6	77.3
		0.1	0.5	1.5	3.0	4.9	6.8	8.5	9.7	10.3	10.7	10.6	10.2	9.8	8.9	7.7	6.2	4.5	0.0	0.0	99.5	98.2
		0.1	0.6	1.7	3.4	5.4	7.6	9.6	11.1	12.0	12.7	12.2	11.9	11.4	10.5	9.0	7.5	5.1	0.0	0.0	114.9	113.6
		0.1	0.6	1.8	3.5	5.6	7.8	9.8	11.4	12.3	12.8	12.0	11.4	10.1	8.4	6.8	5.3	3.7	0.0	0.0	122.7	121.4
		0.1	0.6	1.8	3.5	5.6	7.8	9.8	11.4	12.3	12.8	12.0	11.4	10.1	8.4	6.8	5.3	3.7	0.0	0.0	123.4	122.1
		0.1	0.6	1.8	3.5	5.6	7.8	9.8	11.4	12.3	12.8	12.0	11.4	10.1	8.4	6.8	5.3	3.7	0.0	0.0	116.7	115.4
		0.1	0.6	1.8	3.5	5.6	7.8	9.8	11.4	12.3	12.8	12.0	11.4	10.1	8.4	6.8	5.3	3.7	0.0	0.0	102.0	100.7
		0.1	0.6	1.8	3.5	5.6	7.8	9.8	11.4	12.3	12.8	12.0	11.4	10.1	8.4	6.8	5.3	3.7	0.0	0.0	81.5	80.2
		0.1	0.6	1.8	3.5	5.6	7.8	9.8	11.4	12.3	12.8	12.0	11.4	10.1	8.4	6.8	5.3	3.7	0.0	0.0	58.8	57.5
		0.1	0.6	1.8	3.5	5.6	7.8	9.8	11.4	12.3	12.8	12.0	11.4	10.1	8.4	6.8	5.3	3.7	0.0	0.0	36.9	35.7
		0.1	0.6	1.8	3.5	5.6	7.8	9.8	11.4	12.3	12.8	12.0	11.4	10.1	8.4	6.8	5.3	3.7	0.0	0.0	18.7	17.4
		0.1	0.6	1.8	3.5	5.6	7.8	9.8	11.4	12.3	12.8	12.0	11.4	10.1	8.4	6.8	5.3	3.7	0.0	0.0	6.3	4.8
		0.1	0.6	1.8	3.5	5.6	7.8	9.8	11.4	12.3	12.8	12.0	11.4	10.1	8.4	6.8	5.3	3.7	0.0	0.0	0.7	0.0
		0.1	0.6	1.8	3.5	5.6	7.8	9.8	11.4	12.3	12.8	12.0	11.4	10.1	8.4	6.8	5.3	3.7	0.0	0.0	1075	1053
		0.1	0.6	1.8	3.5	5.6	7.8	9.8	11.4	12.3	12.8	12.0	11.4	10.1	8.4	6.8	5.3	3.7	0.0	0.0	1075	1053

C Plane (°):0.0-360.0: 10.0
Test Lab: ACOLYTE
Test Type: TYPE C
Temperature: 25°C
Operator: leo

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

The Average Illuminance Effective Figure



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	18.4	20.0	18.8	20.3	20.7	16.4	18.0	16.8	18.3	18.7
3H	20.1	21.5	20.5	21.9	22.3	17.8	19.2	18.2	19.6	20.0
4H	20.7	22.1	21.1	22.4	22.8	18.3	19.6	18.7	20.0	20.4
6H	21.1	22.4	21.6	22.8	23.2	18.5	19.8	19.0	20.2	20.6
8H	21.2	22.4	21.7	22.8	23.3	18.6	19.8	19.1	20.2	20.6
12H	21.3	22.4	21.7	22.8	23.3	18.7	19.8	19.1	20.2	20.7
X=4H Y=2H	18.7	20.0	19.1	20.4	20.8	17.0	18.4	17.5	18.8	19.2
3H	20.6	21.7	21.0	22.1	22.5	18.6	19.7	19.0	20.2	20.6
4H	21.3	22.3	21.7	22.7	23.2	19.2	20.2	19.6	20.6	21.1
6H	21.8	22.7	22.3	23.1	23.6	19.6	20.4	20.0	20.9	21.4
8H	21.9	22.8	22.4	23.2	23.7	19.7	20.5	20.1	21.0	21.4
12H	22.0	22.8	22.5	23.3	23.7	19.7	20.5	20.2	21.0	21.5
X=8H Y=4H	21.4	22.2	21.9	22.7	23.2	19.4	20.3	19.9	20.7	21.2
6H	21.9	22.6	22.5	23.1	23.6	19.9	20.6	20.4	21.1	21.6
8H	22.1	22.7	22.6	23.3	23.8	20.1	20.7	20.6	21.2	21.7
12H	22.2	22.8	22.8	23.3	23.9	20.2	20.7	20.7	21.2	21.8
X=12H Y=4H	21.4	22.1	21.9	22.6	23.1	19.5	20.2	20.0	20.7	21.2
6H	21.9	22.6	22.5	23.0	23.6	20.0	20.6	20.5	21.1	21.6
8H	22.1	22.7	22.7	23.2	23.8	20.1	20.7	20.6	21.2	21.8

Calculate in accordance with CIE 190:2010

C Plane (°):0.0-360.0: 10.0
Test Lab: ACOLYTE
Test Type: TYPE C
Temperature: 25°C
Operator: leo

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	0.58	0.68	0.75	0.81	0.88	0.93	0.96	1.01	1.03
	0.30		0.50	0.61	0.68	0.74	0.82	0.87	0.91	0.96	1.00
	0.20		0.45	0.55	0.62	0.68	0.77	0.83	0.87	0.93	0.97
0.50	0.50	0.20	0.56	0.66	0.73	0.78	0.84	0.89	0.92	0.96	0.99
	0.30		0.49	0.59	0.66	0.72	0.79	0.84	0.88	0.93	0.96
	0.20		0.44	0.54	0.62	0.67	0.75	0.81	0.85	0.90	0.94
0.30	0.50	0.20	0.55	0.64	0.70	0.75	0.81	0.86	0.89	0.92	0.95
	0.30		0.48	0.58	0.65	0.70	0.77	0.82	0.85	0.90	0.93
	0.20		0.44	0.54	0.61	0.66	0.73	0.79	0.82	0.87	0.90
0.00	0.00	0.00	0.42	0.51	0.58	0.63	0.70	0.75	0.78	0.83	0.86
Rating: 18W 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	0.97	0.80	0.68	0.59	0.47	0.39	0.34	0.26	0.21
	0.30		0.81	0.69	0.60	0.53	0.43	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
0.50	0.50	0.20	0.94	0.77	0.65	0.57	0.45	0.41	0.32	0.25	0.20
	0.30		0.79	0.67	0.58	0.51	0.41	0.35	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
0.30	0.50	0.20	0.91	0.74	0.63	0.54	0.43	0.36	0.30	0.23	0.19
	0.30		0.78	0.65	0.56	0.49	0.40	0.33	0.29	0.22	0.18
	0.20		0.68	0.58	0.51	0.45	0.37	0.31	0.27	0.21	0.18
0.00	0.00	0.00	0.57	0.48	0.41	0.36	0.29	0.24	0.21	0.16	0.13
Rating: 18W 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	0.19	0.20	0.21	0.21	0.22	0.22	0.23
	0.30		0.11	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	0.14	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	0.19	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: 18W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											