ACOLYTE
www.GENLEDBrands.com/Acolyte
Tel: +1 212 629 6830 (USA)
Email: sales-us@genledbrands.com

Report No.: 01 **Test Time: 2016/9/7 17:31**

Luminaire Property

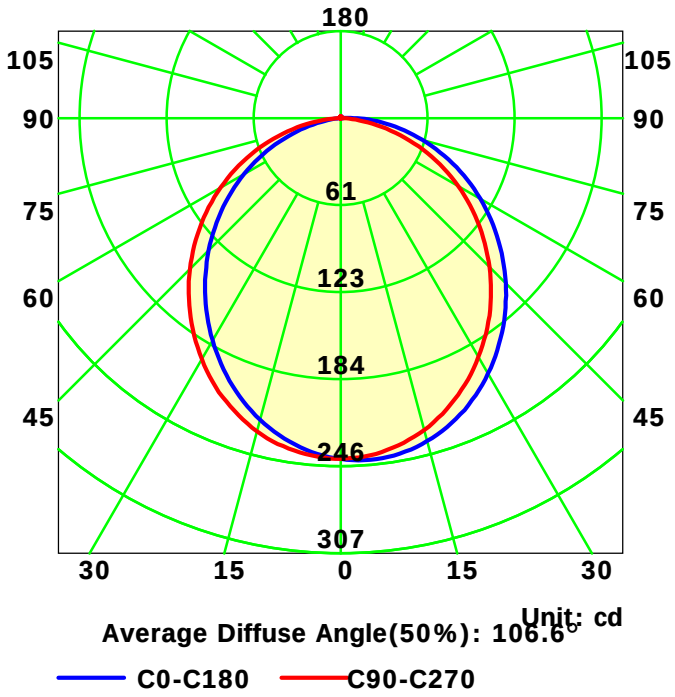
Luminaire Manufacturer:
Luminaire Category: Linearlyte
Luminaire Description: PS3 3500K LO
Luminous Length (mm): 600 **Luminous Width (mm):**
Luminous Height (mm): **Voltage: 220.0 V**
Current: 0.034 A **Power: 6.89 W**
Power Factor: 0.931

Photometric Results

CIE Class: Direct **Total Rated Lamp Lumens: 655.4 lm**
Measurement Flux: 655.4 lm **Efficiency: 100%**
Downward Ratio: 99% **Upward Ratio: 1%**
Horizontal Diffuse Angle(50%): H106.3
Vertical Diffuse Angle(50%): V107
Luminaire Efficacy Rating (LER): 95 **Central Intensity: 240.89 cd**
Max. Intensity: 245.11 cd **Pos of Max. Intensity: H60 V1**

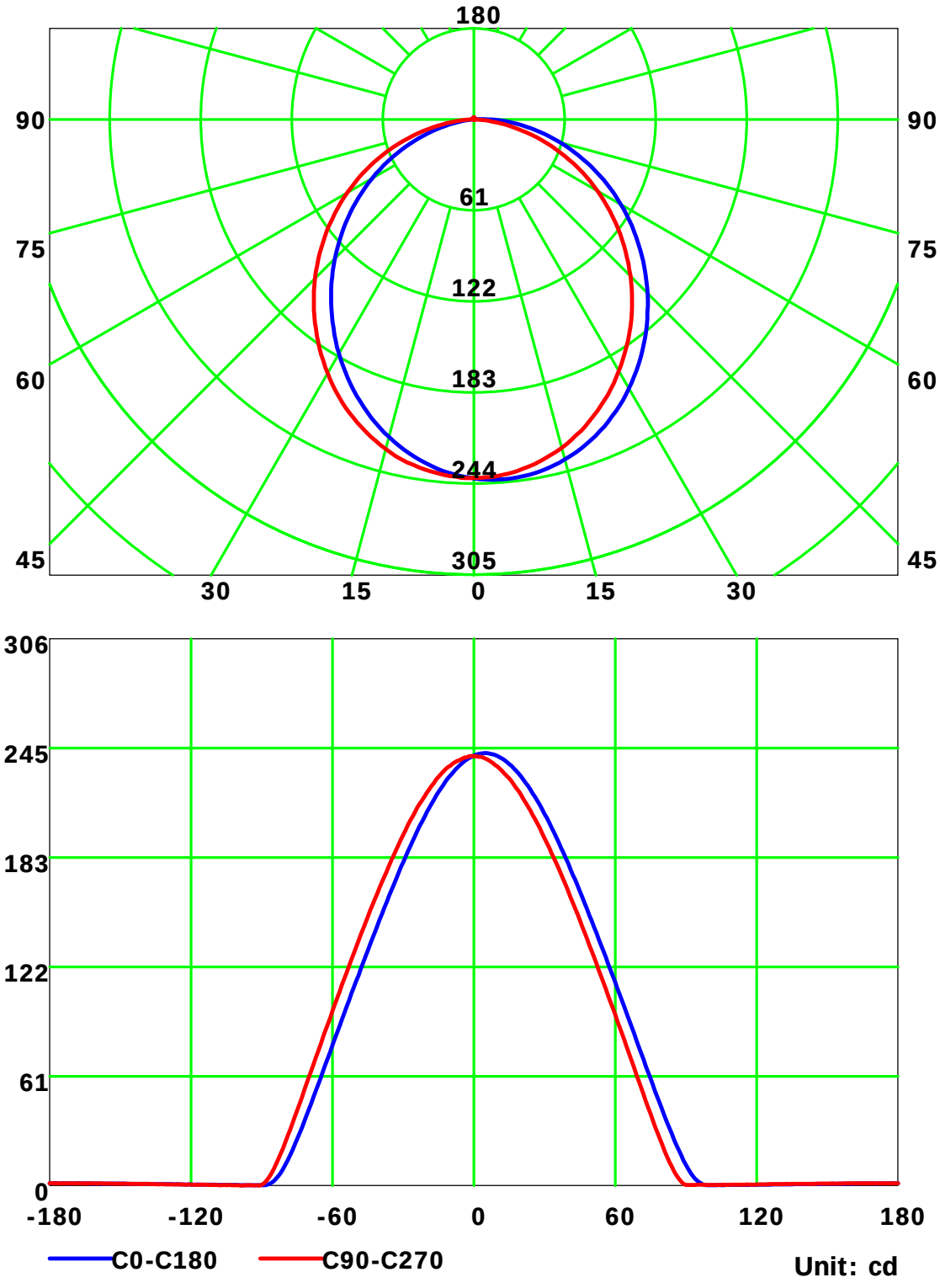
Picture Of Luminaire

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 30.0 **Gamma Plane (°):0.0-180.0:1.0**
Test Lab: ACOLYTE **Test Device: GPM-1800B**
Test Type: TYPE C **Distance: 9.028 m**
Temperature: 25℃ **Humidity: 60%**
Operator: **Inspector:**

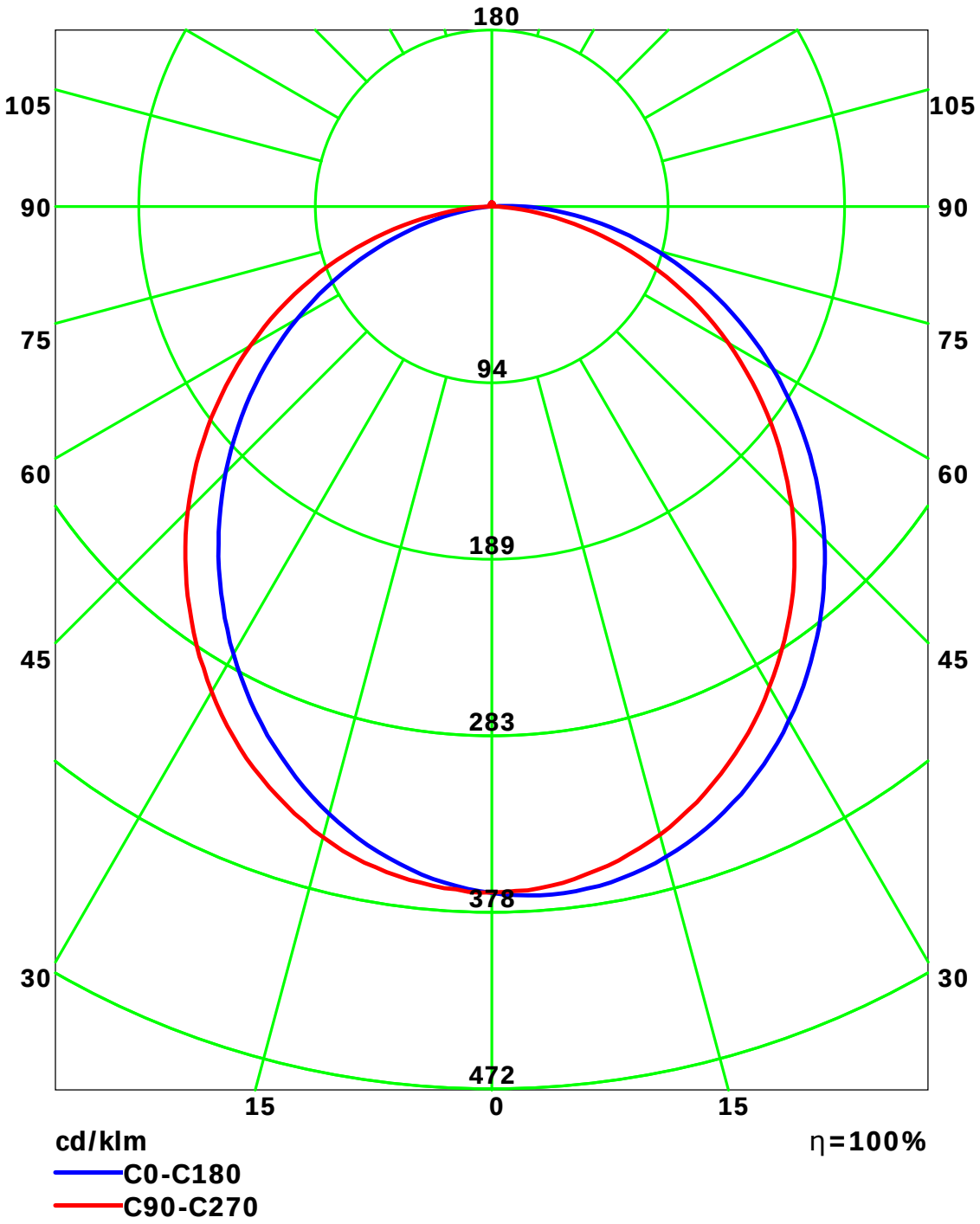
Luminous Intensity Distribution Curve



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

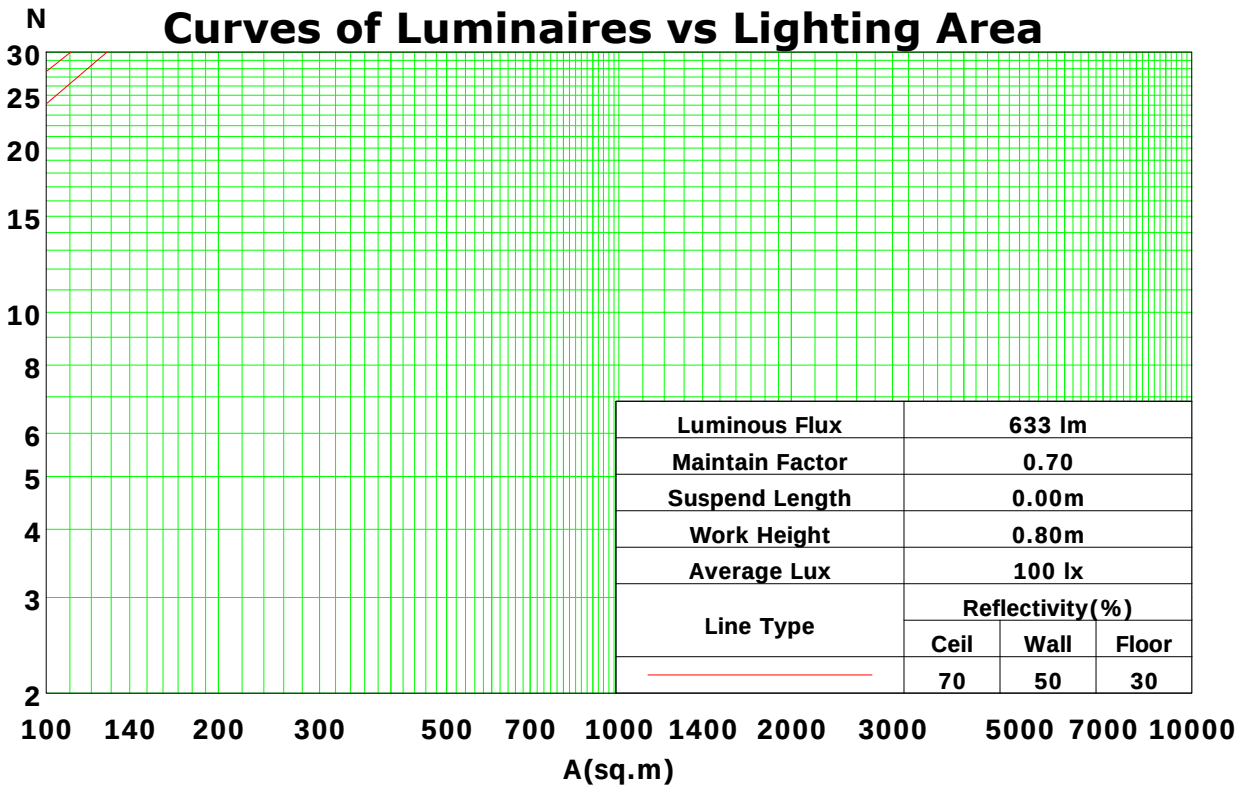
Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

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	111	111	111	106	106	106	101	101	101	99
1	109	104	99	96	106	101	98	94	97	94	91	93	90	88	89	87	85	83
2	99	90	84	78	96	89	82	77	85	80	75	81	77	73	78	75	71	69
3	90	80	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	83	71	62	55	80	69	61	55	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	45	43
6	70	57	48	42	68	56	47	41	54	46	41	52	46	40	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	42	36	32	30
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	31	26	24

Spacing Criteria (0-180): 1.21
Spacing Criteria (90-270): 1.21
Spacing Criteria (Diagonal): 1.33

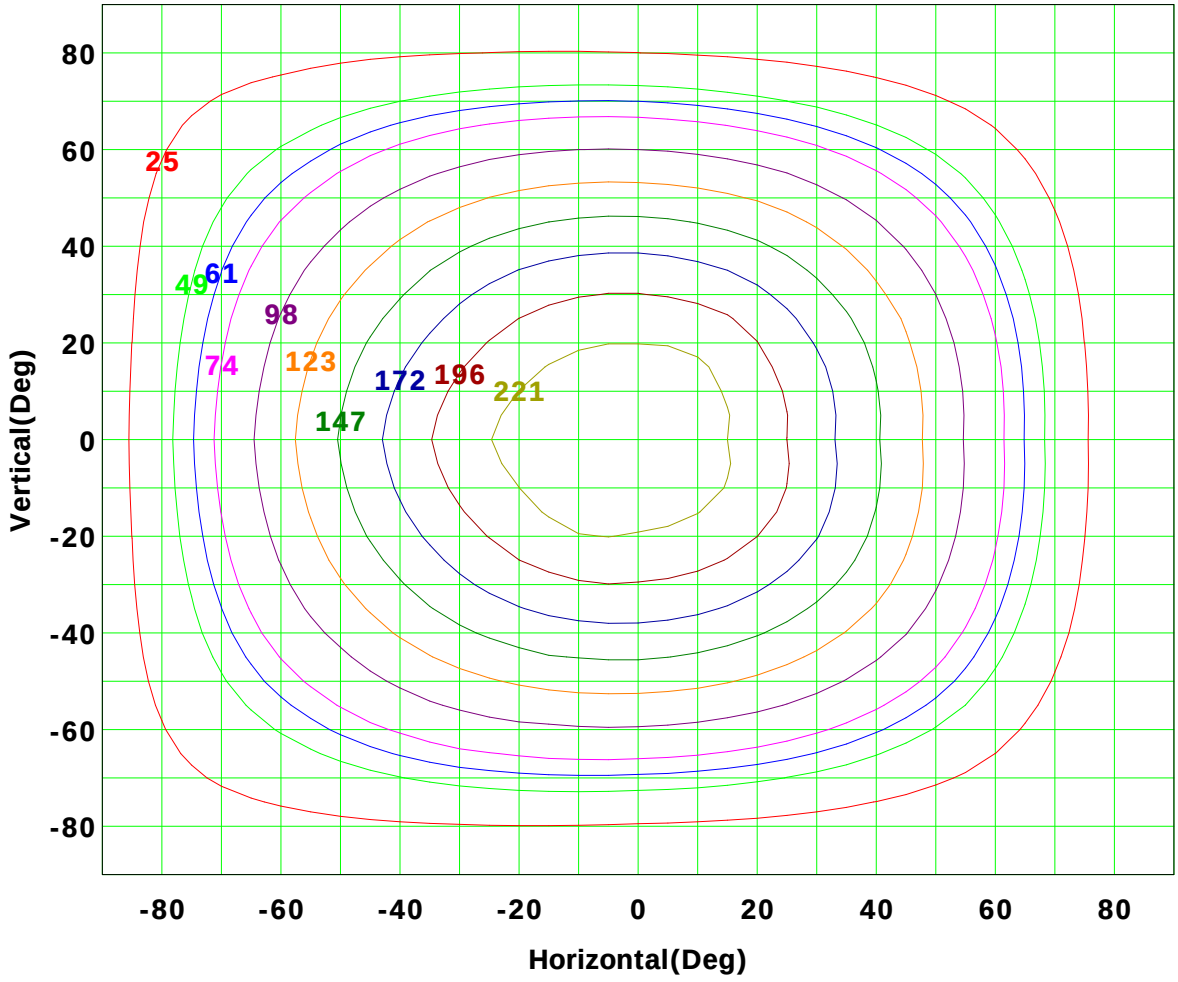
Curves of Luminaires vs Lighting Area



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

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

Isocandela (rectangle)



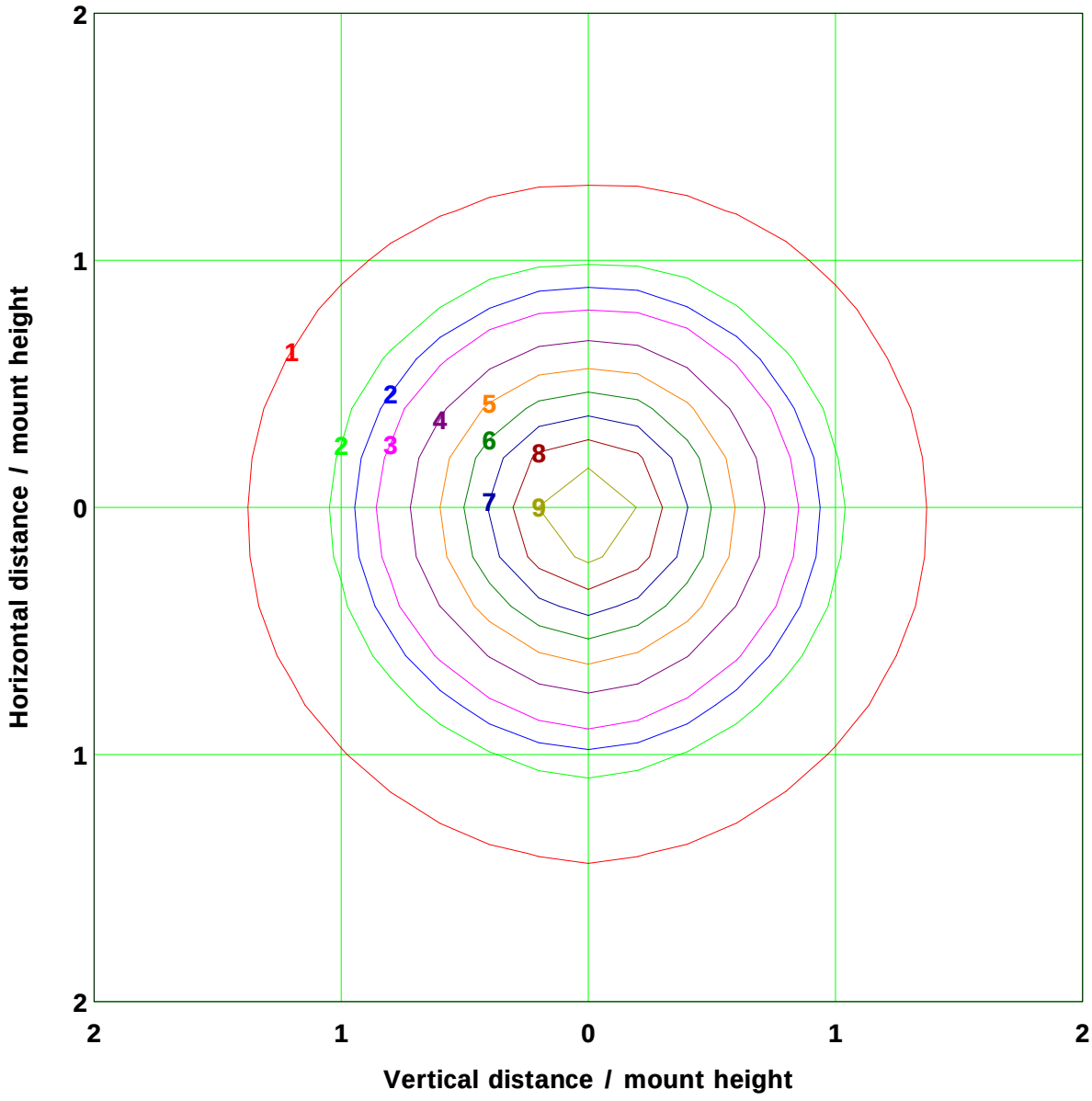
Imax (100%): 245 cd

(10%):	25 cd	(20%):	49 cd
(25%):	61 cd	(30%):	74 cd
(40%):	98 cd	(50%):	123 cd
(60%):	147 cd	(70%):	172 cd
(80%):	196 cd	(90%):	221 cd

C Plane (°):0.0-360.0: 30.0
Test Lab: ACOLYTE
Test Type: TYPE C
Temperature: 25℃
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%): 9.8 lx

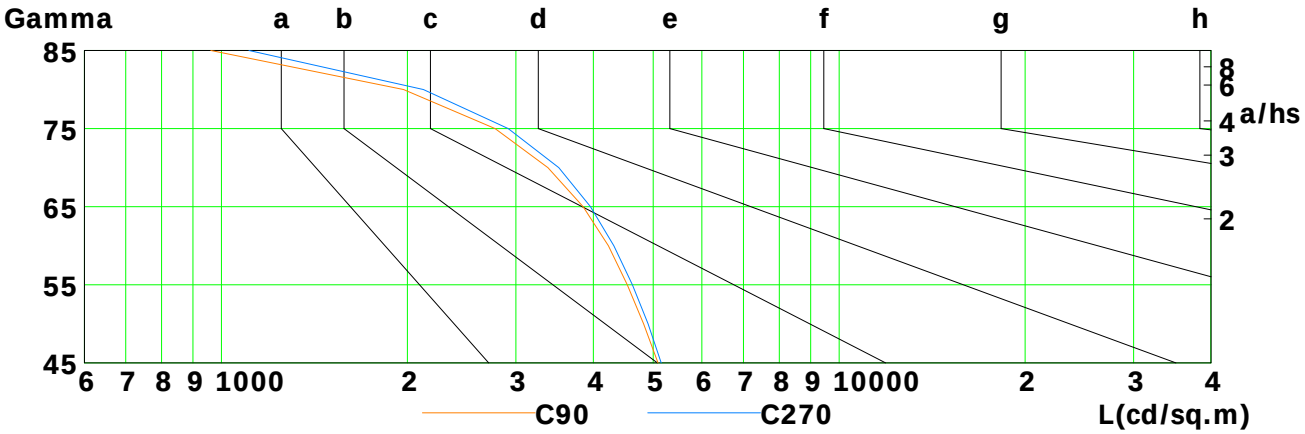
(10%): 1.0 lx	(20%): 2.0 lx
(25%): 2.5 lx	(30%): 2.9 lx
(40%): 3.9 lx	(50%): 4.9 lx
(60%): 5.9 lx	(70%): 6.9 lx
(80%): 7.8 lx	(90%): 8.8 lx

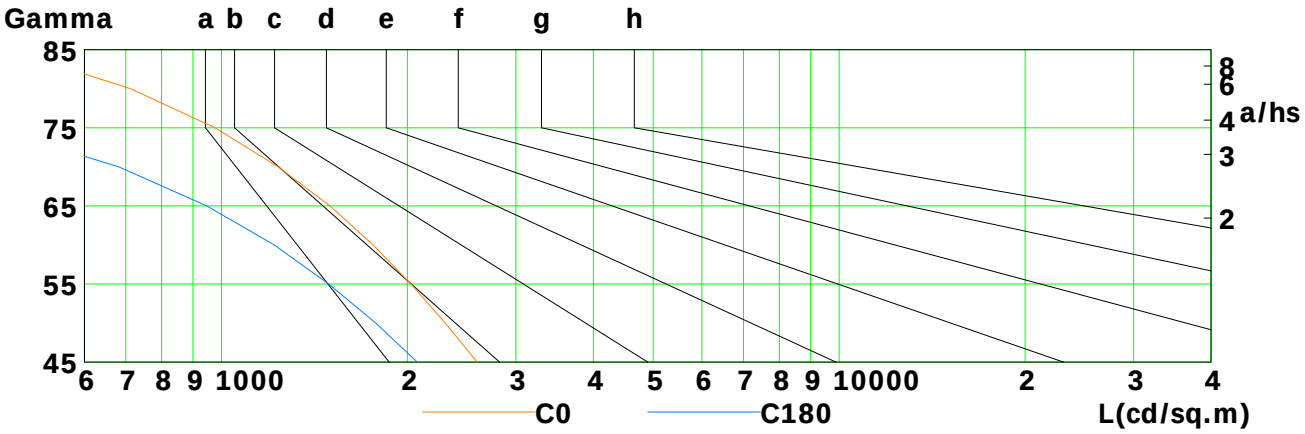
C Plane (°):0.0-360.0: 30.0
Test Lab: ACOLYTE
Test Type: TYPE C
Temperature: 25℃
Operator:

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



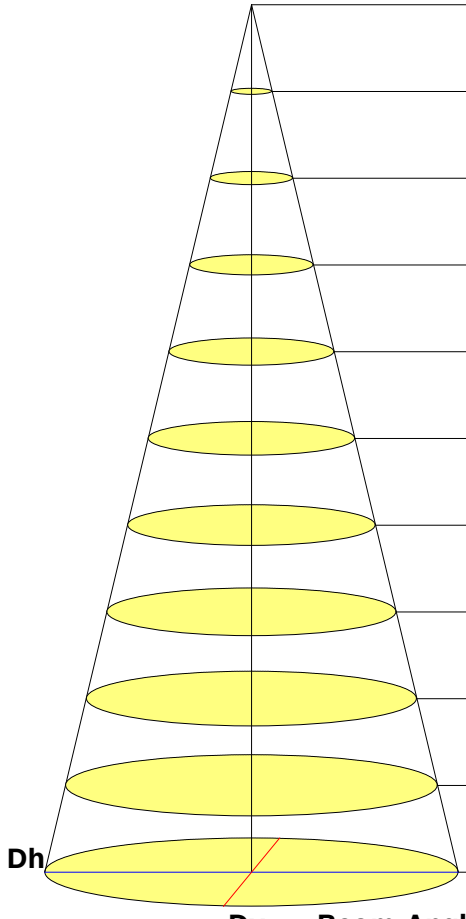


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	2595	2303	2027	1760	1500	1235	977	713	455
C90	5090	4826	4540	4232	3853	3379	2774	1973	962
C180	2077	1778	1493	1218	947	682	428	200	47
C270	5156	4906	4630	4322	3961	3518	2914	2124	1108

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

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

Illuminance at a Distance



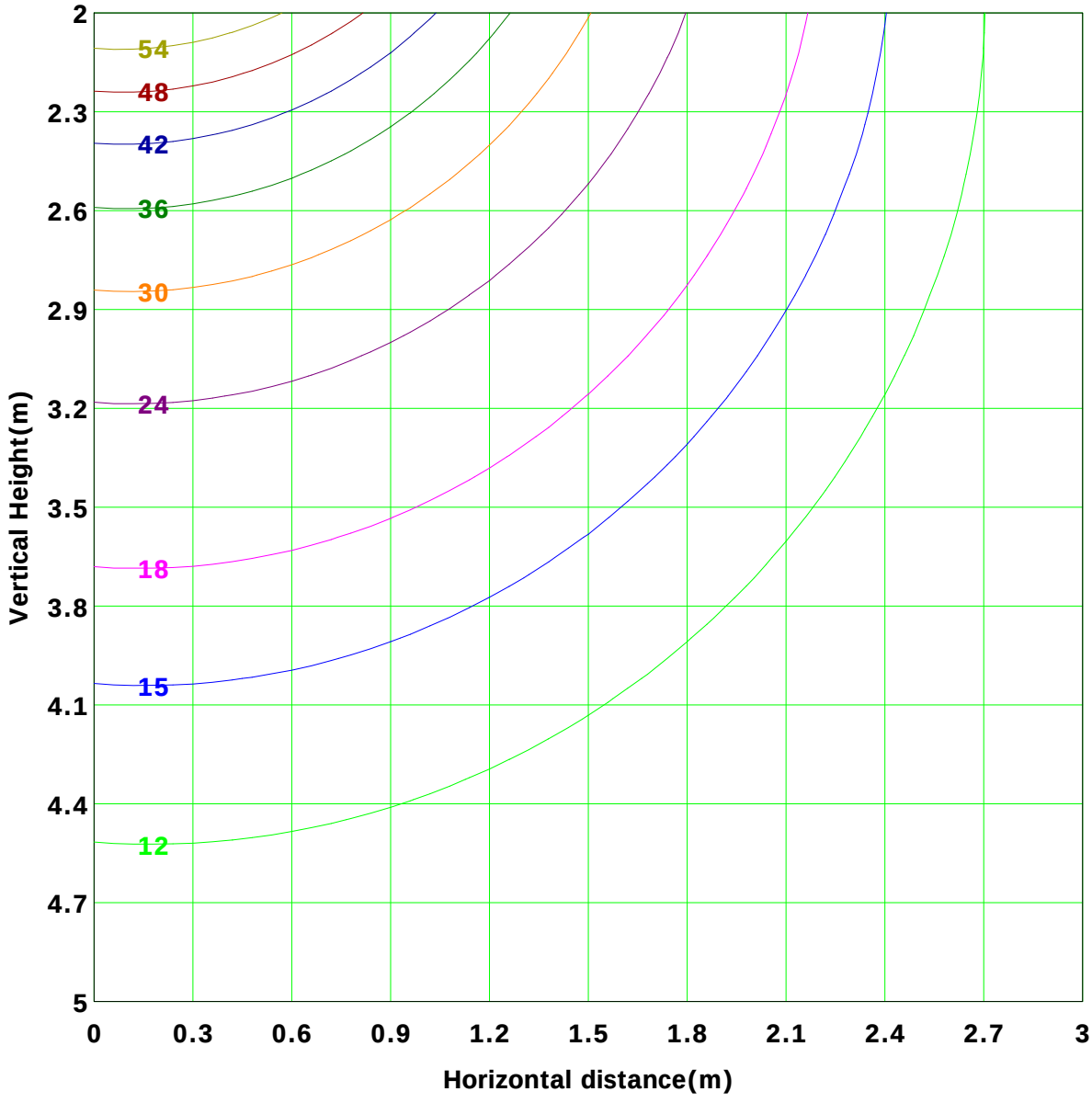
Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
1.0	240.89	2.67/2.70	5.7	44.34
2.0	60.22	5.33/5.41	23.0	11.08
3.0	26.77	8.00/8.11	51.6	4.93
4.0	15.06	10.66/10.81	91.8	2.77
5.0	9.64	13.33/13.51	143.5	1.77
6.0	6.69	16.00/16.22	206.6	1.23
7.0	4.92	18.66/18.92	281.2	0.90
8.0	3.76	21.33/21.62	367.3	0.69
9.0	2.97	24.00/24.32	464.8	0.55
10.0	2.41	26.66/27.03	573.9	0.44

Beam Angle(B): H106.3 V107.0 Field Angle(F): H161.2 V159.8

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

(10%): 6.0 lx	(20%): 12.1 lx
(25%): 15.1 lx	(30%): 18.1 lx
(40%): 24.2 lx	(50%): 30.2 lx
(60%): 36.2 lx	(70%): 42.3 lx
(80%): 48.3 lx	(90%): 54.3 lx

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

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

ACOLYTE
www.GENLEDBrands.com/Acolyte
Tel: +1 212 629 6830 **(USA)**
Email: sales-us@genledbrands.com

Area Flux Table

Unit: lm

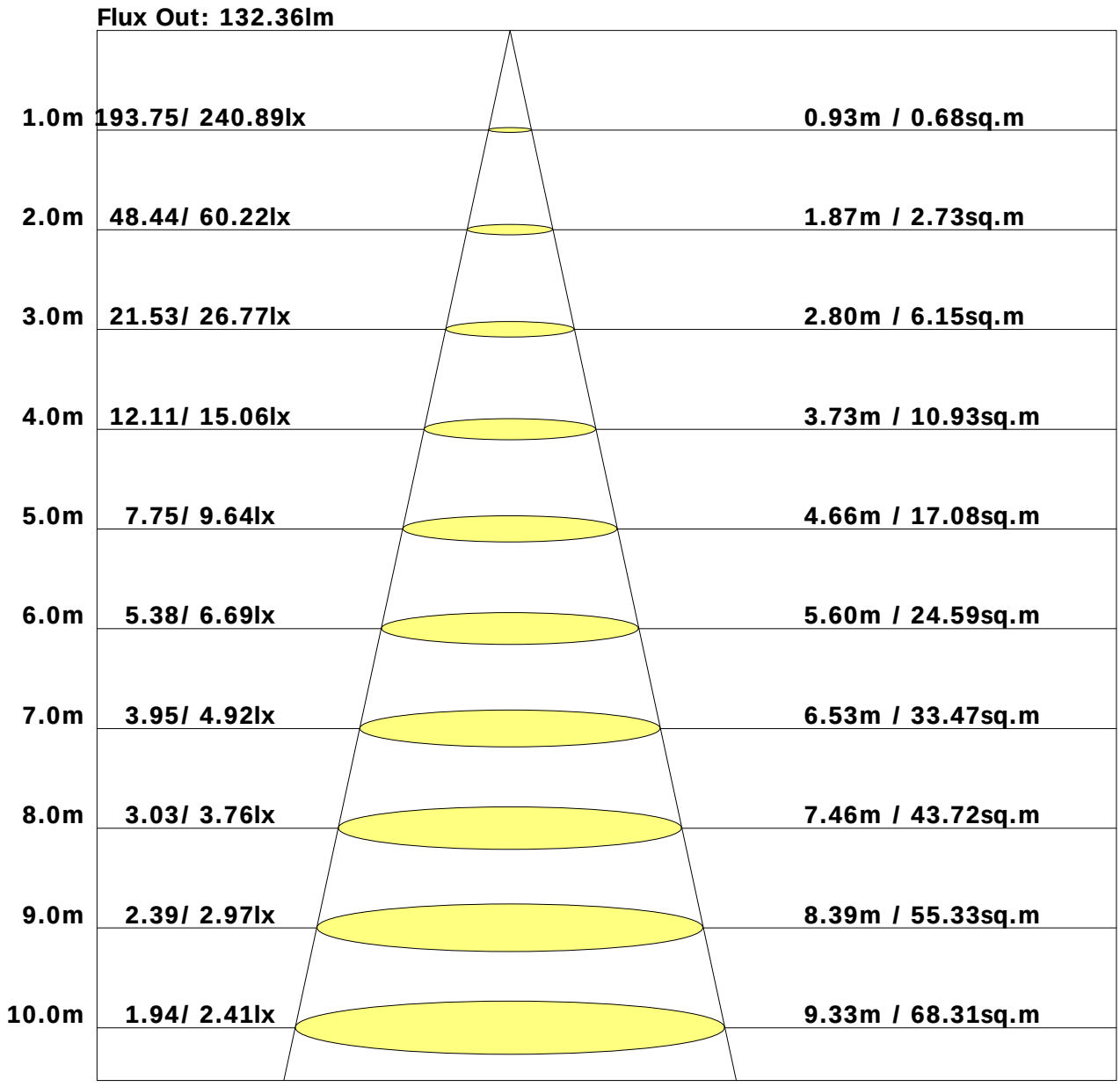
Vertical plane (rows) / Horizontal plane (columns)

	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90 Flux(T)	Flux(E)
-90	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.1	0.1	0.0	3.2	0.0
-80	0.0	0.0	0.1	0.3	0.5	0.7	0.9	1.1	1.3	1.3	1.3	1.1	0.9	0.7	0.5	0.3	0.1	0.0	11.1	9.5
-70	0.0	0.1	0.2	0.5	0.9	1.4	1.8	2.2	2.4	2.4	2.3	2.0	1.7	1.2	0.8	0.5	0.2	0.0	20.7	20.3
-60	0.0	0.1	0.4	0.8	1.4	2.1	2.7	3.2	3.5	3.5	3.3	3.0	2.4	1.8	1.2	0.7	0.3	0.1	30.3	30.1
-50	0.0	0.1	0.5	1.1	1.9	2.7	3.5	4.2	4.5	4.6	4.3	3.8	3.1	2.3	1.5	0.8	0.3	0.1	39.3	39.1
-40	0.0	0.2	0.6	1.4	2.3	3.3	4.3	5.0	5.5	5.5	5.2	4.5	3.7	2.7	1.8	1.0	0.4	0.1	47.2	47.1
-30	0.0	0.2	0.7	1.5	2.6	3.7	4.8	5.8	6.3	6.3	5.9	5.2	4.1	3.0	2.0	1.1	0.4	0.1	53.9	53.8
-20	0.0	0.2	0.8	1.7	2.8	4.0	5.2	6.3	6.9	6.9	6.5	5.6	4.5	3.3	2.2	1.2	0.5	0.1	58.7	58.6
-10	0.0	0.2	0.8	1.7	2.9	4.1	5.4	6.5	7.2	7.2	6.8	6.0	4.8	3.5	2.3	1.2	0.5	0.1	61.2	61.1
0	0.0	0.2	0.8	1.7	2.9	4.2	5.4	6.5	7.1	7.3	6.8	6.0	4.8	3.5	2.3	1.2	0.5	0.1	61.2	61.2
10	0.0	0.2	0.8	1.7	2.8	4.1	5.3	6.3	6.8	7.0	6.5	5.6	4.5	3.3	2.2	1.2	0.5	0.1	58.8	58.7
20	0.0	0.2	0.7	1.6	2.6	3.8	4.9	5.7	6.2	6.3	5.9	5.2	4.1	3.0	2.0	1.1	0.4	0.1	53.8	53.7
30	0.0	0.2	0.6	1.4	2.3	3.3	4.2	5.0	5.4	5.5	5.2	4.5	3.6	2.7	1.8	1.0	0.4	0.1	47.1	47.0
40	0.0	0.1	0.5	1.1	1.9	2.7	3.5	4.1	4.5	4.5	4.3	3.7	3.0	2.2	1.5	0.8	0.3	0.1	39.0	38.8
50	0.0	0.1	0.4	0.9	1.4	2.1	2.7	3.1	3.4	3.5	3.3	2.9	2.4	1.8	1.2	0.7	0.3	0.1	30.0	29.8
60	0.0	0.1	0.2	0.5	0.9	1.4	1.8	2.1	2.3	2.4	2.3	2.0	1.7	1.2	0.8	0.5	0.2	0.0	20.5	20.1
70	0.0	0.0	0.1	0.3	0.5	0.7	0.9	1.1	1.2	1.2	1.2	1.1	0.9	0.7	0.5	0.3	0.2	0.0	10.9	9.3
80	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.0	3.0	0.0
90 Flux(T)	0.2	2.2	8.3	18.2	30.7	44.5	57.8	68.6	75.0	76.0	71.8	62.9	50.9	37.6	24.7	13.7	5.6	1.1	650	
Flux(E)	0.0	1.2	7.5	17.5	30.0	43.8	57.1	67.9	74.3	75.4	71.1	62.2	50.2	36.9	24.1	13.1	5.1	0.6		638

C Plane (°):0.0-360.0: 30.0
Test Lab: ACOLYTE
Test Type: TYPE C
Temperature: 25℃
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℃
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	17.8	19.4	18.2	19.7	20.1	15.2	16.8	15.6	17.2	17.5
3H	19.8	21.2	20.2	21.6	22.0	16.5	18.0	16.9	18.3	18.7
4H	20.6	22.0	21.0	22.3	22.7	16.9	18.3	17.3	18.6	19.0
6H	21.3	22.5	21.7	22.9	23.3	17.1	18.4	17.5	18.7	19.1
8H	21.5	22.7	22.0	23.1	23.6	17.1	18.3	17.6	18.7	19.2
12H	21.7	22.9	22.2	23.3	23.7	17.1	18.3	17.6	18.7	19.1
X=4H Y=2H	18.1	19.5	18.5	19.8	20.2	15.8	17.2	16.3	17.6	18.0
3H	20.2	21.4	20.6	21.8	22.2	17.3	18.5	17.7	18.9	19.3
4H	21.1	22.1	21.5	22.6	23.0	17.8	18.8	18.2	19.2	19.7
6H	21.9	22.8	22.3	23.2	23.7	18.0	19.0	18.5	19.4	19.9
8H	22.2	23.0	22.7	23.5	24.0	18.1	18.9	18.6	19.4	19.9
12H	22.5	23.2	22.9	23.7	24.2	18.1	18.9	18.6	19.4	19.8
X=8H Y=4H	21.2	22.0	21.6	22.5	23.0	18.0	18.9	18.5	19.3	19.8
6H	22.0	22.7	22.5	23.2	23.7	18.3	19.1	18.9	19.6	20.1
8H	22.4	23.0	22.9	23.5	24.0	18.4	19.1	19.0	19.6	20.1
12H	22.7	23.3	23.2	23.8	24.3	18.5	19.0	19.0	19.5	20.1
X=12H Y=4H	21.2	21.9	21.7	22.4	22.9	18.1	18.8	18.6	19.3	19.8
6H	22.0	22.6	22.5	23.1	23.7	18.4	19.0	18.9	19.5	20.1
8H	22.4	22.9	22.9	23.4	24.0	18.5	19.1	19.0	19.6	20.1

Calculate in accordance with CIE 190:2010

C Plane (°):0.0-360.0: 30.0
Test Lab: ACOLYTE
Test Type: TYPE C
Temperature: 25℃
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	0.75	0.80	0.87	0.92	0.96	1.00	1.03
	0.30		0.49	0.60	0.67	0.73	0.81	0.86	0.91	0.96	1.00
	0.20		0.44	0.54	0.61	0.67	0.76	0.82	0.86	0.92	0.96
0.50	0.50	0.20	0.55	0.65	0.72	0.77	0.84	0.88	0.92	0.96	0.99
	0.30		0.48	0.58	0.66	0.71	0.79	0.84	0.88	0.93	0.96
	0.20		0.43	0.53	0.61	0.66	0.74	0.80	0.84	0.90	0.93
0.30	0.50	0.20	0.54	0.63	0.70	0.74	0.81	0.85	0.88	0.92	0.95
	0.30		0.48	0.57	0.64	0.69	0.76	0.81	0.85	0.89	0.92
	0.20		0.43	0.53	0.60	0.65	0.73	0.78	0.82	0.87	0.90
0.00	0.00	0.00	0.41	0.50	0.57	0.62	0.69	0.74	0.78	0.82	0.85

Rating:7W Photometrically tested without ceiling board.

Multiply UF values by service correction factors

Calculate in accordance with CIBSE Technical Memorandum NO.5 1980

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

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

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	0.48	0.40	0.34	0.27	0.22
	0.30		0.82	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	0.25	0.21
	0.30		0.81	0.68	0.59	0.52	0.42	0.35	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	0.29	0.23	0.19
	0.20		0.69	0.59	0.52	0.46	0.38	0.32	0.28	0.22	0.18
0.00	0.00	0.00	0.59	0.49	0.42	0.37	0.30	0.25	0.22	0.17	0.14

Rating:7W Photometrically tested without ceiling board.

Multiply UF values by service correction factors

Calculate in accordance with CIBSE Technical Memorandum NO.5 1980

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

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

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	0.18	0.19	0.20	0.21	0.21	0.22	0.22	0.23
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20
	0.20		0.05	0.07	0.09	0.10	0.12	0.13	0.15	0.16	0.18
0.50	0.50	0.20	0.16	0.18	0.18	0.19	0.20	0.20	0.21	0.21	0.22
	0.30		0.10	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19
	0.20		0.05	0.07	0.08	0.10	0.12	0.13	0.14	0.16	0.17
0.30	0.50	0.20	0.16	0.17	0.18	0.18	0.19	0.20	0.20	0.20	0.21
	0.30		0.10	0.11	0.13	0.14	0.15	0.16	0.17	0.18	0.19
	0.20		0.05	0.07	0.08	0.09	0.11	0.13	0.14	0.15	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:7W Photometrically tested without ceiling board.

Multiply UF values by service correction factors

Calculate in accordance with CIBSE Technical Memorandum NO.5 1980

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

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