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

Report No.: Test Time: 2018/8/30 10:56

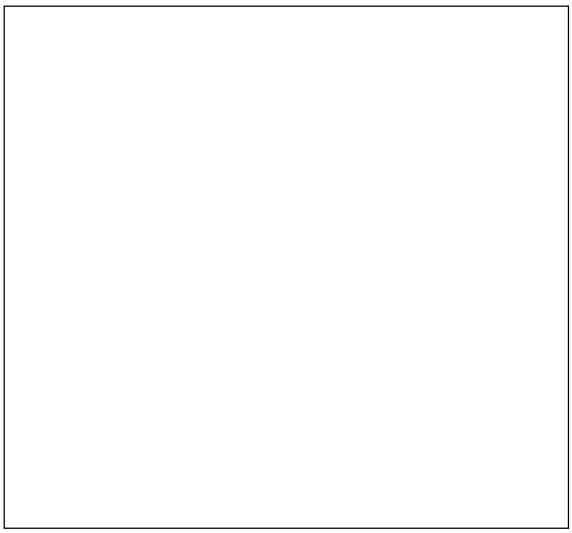
Luminaire Property

Luminaire Manufacturer:
Luminaire Category: RIBBONLYTE
Luminaire Description: RBS2244.427PH 1FT(300mm)
Luminous Length (mm): 300 Luminous Width (mm): 8
Luminous Height (mm): 1 Voltage: 24.0 V
Current: 0.176 A Power: 4.22 W
Power Factor: 1.000

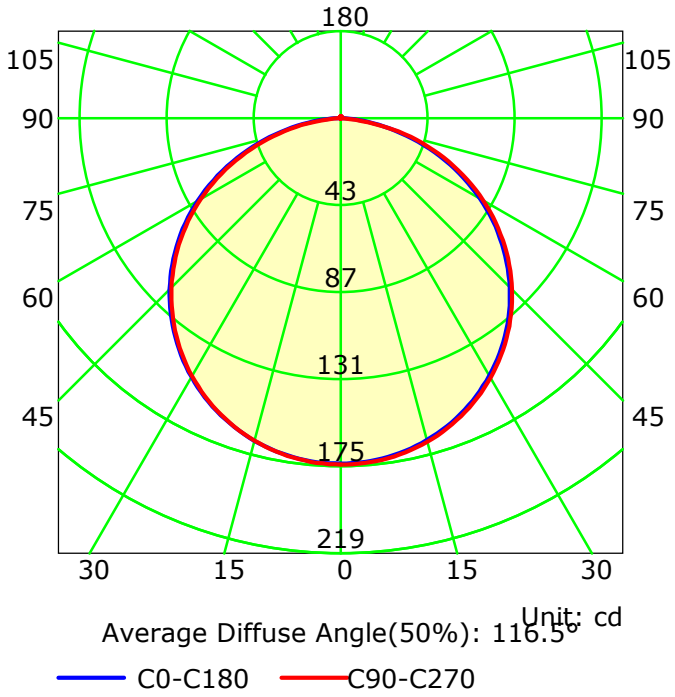
Photometric Results

CIE Class: Direct Total Rated Lamp Lumens: 522.6 lm
Measurement Flux: 522.6 lm Efficiency: 100%
Downward Ratio: 99% Upward Ratio: 1%
Horizontal Diffuse Angle(50%): H116.5
Vertical Diffuse Angle(50%): V116.5
Luminaire Efficacy Rating (LER): 124 Central Intensity: 174.25 cd
Max. Intensity: 174.89 cd Pos of Max. Intensity: H150 V1

Picture Of Luminaire



Luminous Intensity Distribution Curve

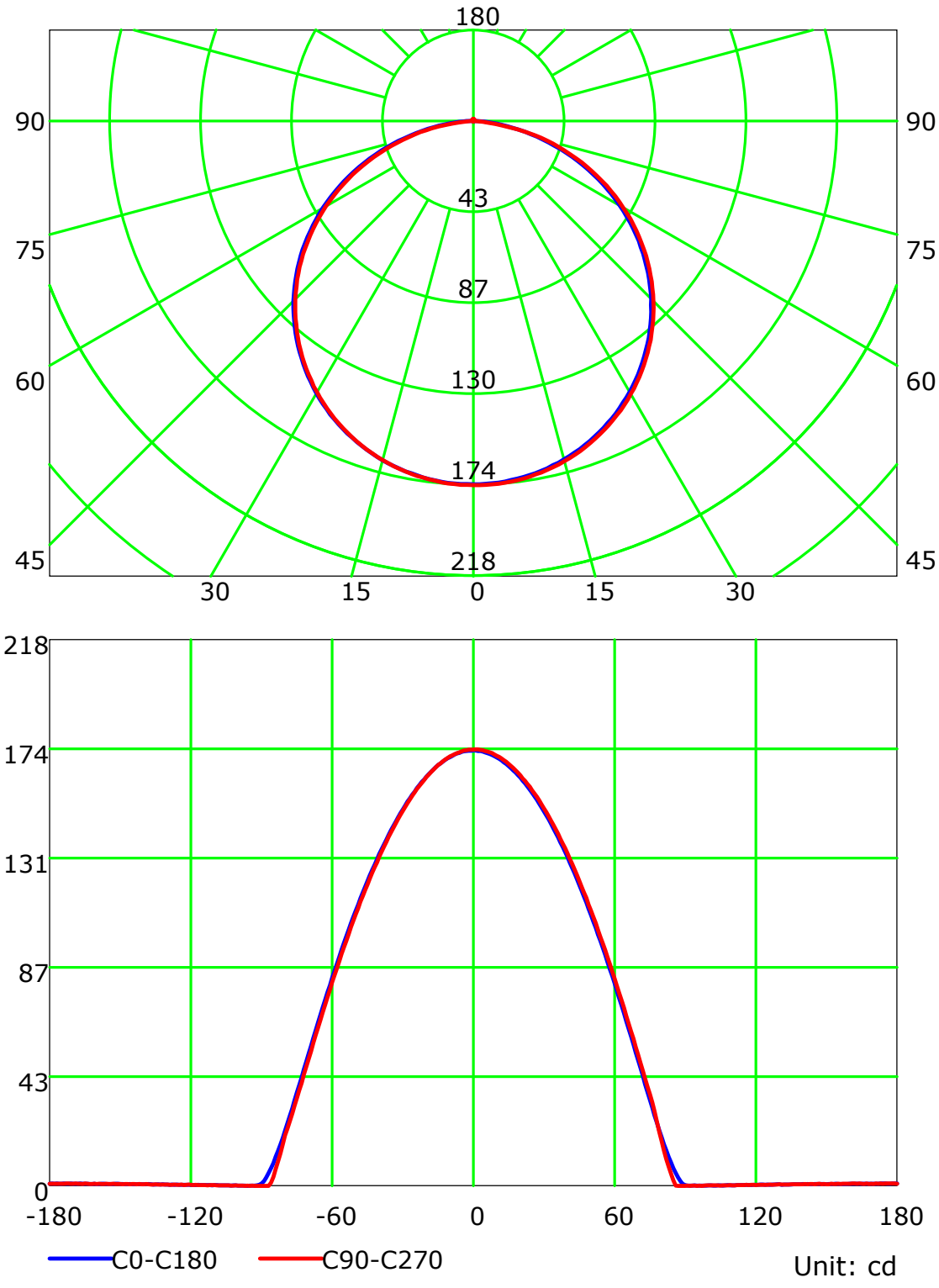


Unit: cd
Average Diffuse Angle(50%): 116.5°
C0-C180 C90-C270

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

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

Luminous Intensity Distribution Curve

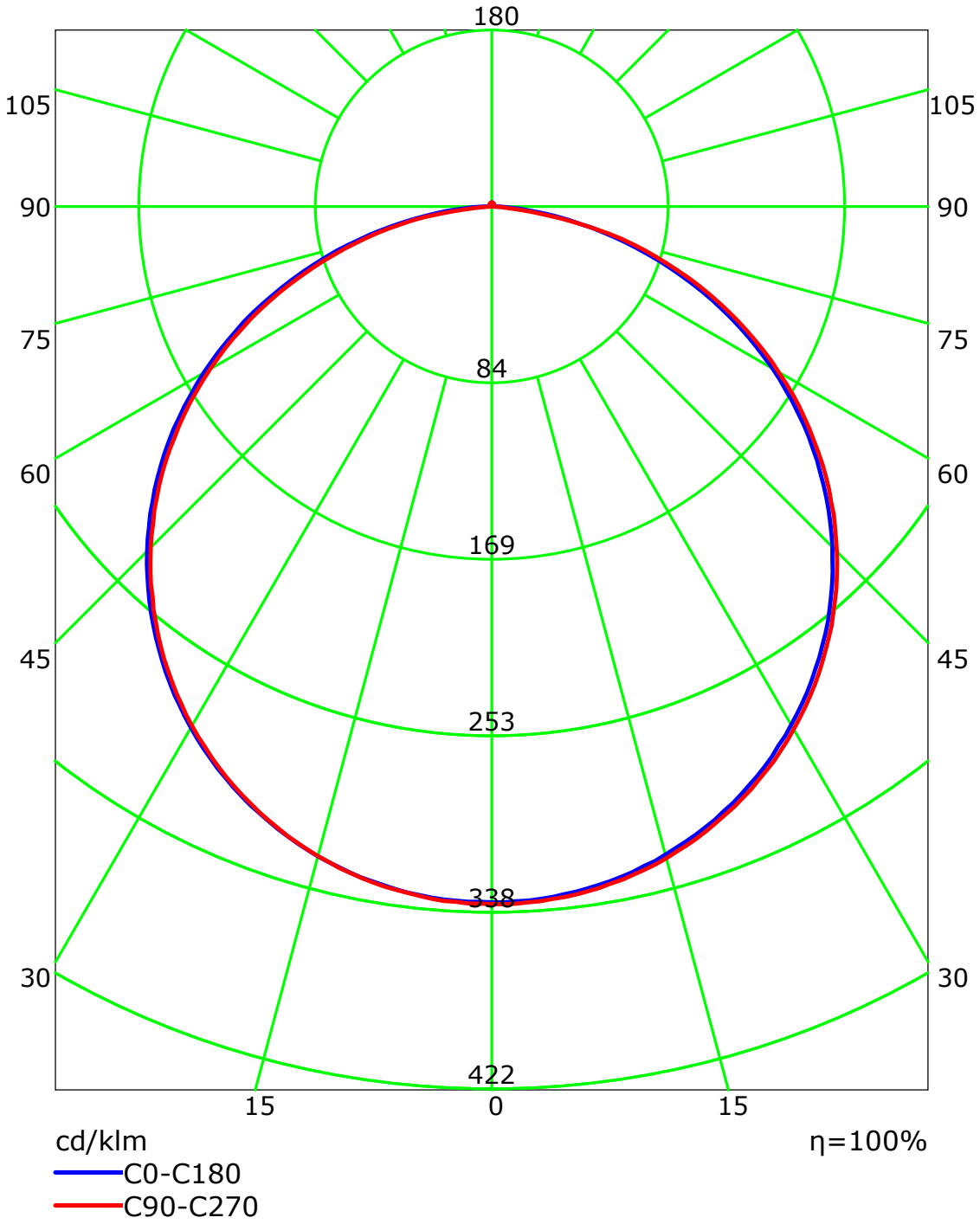


C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Aaron

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

Luminous Intensity Distribution Curve(cd/klm)



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

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

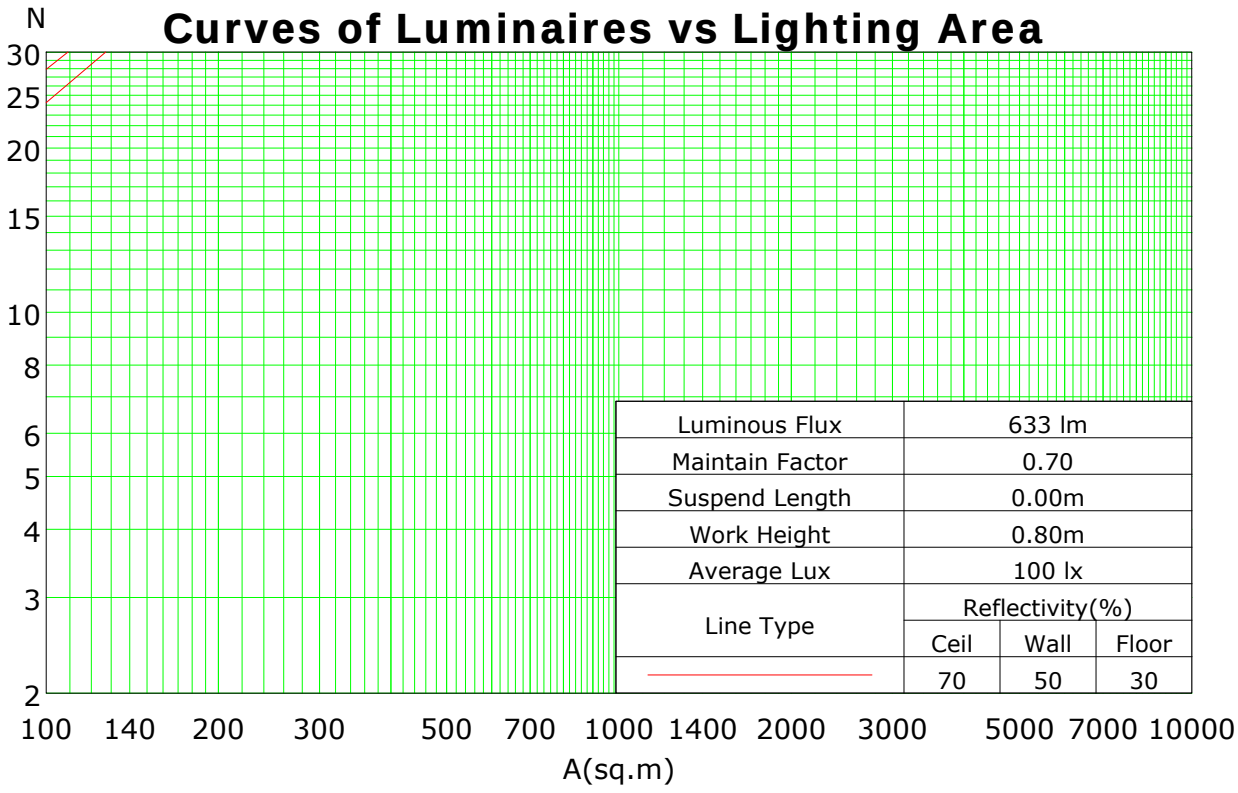
ACOLYTE
www.GENLEDBrands.com/Acolyte
Tel: +1 212 629 6830 (USA)
Email: sales-us@genledbrands.com

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	102	102	102	99
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	54	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	62	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23

Spacing Criteria (0-180): 1.28
Spacing Criteria (90-270): 1.28
Spacing Criteria (Diagonal): 1.41

Curves of Luminaires vs Lighting Area

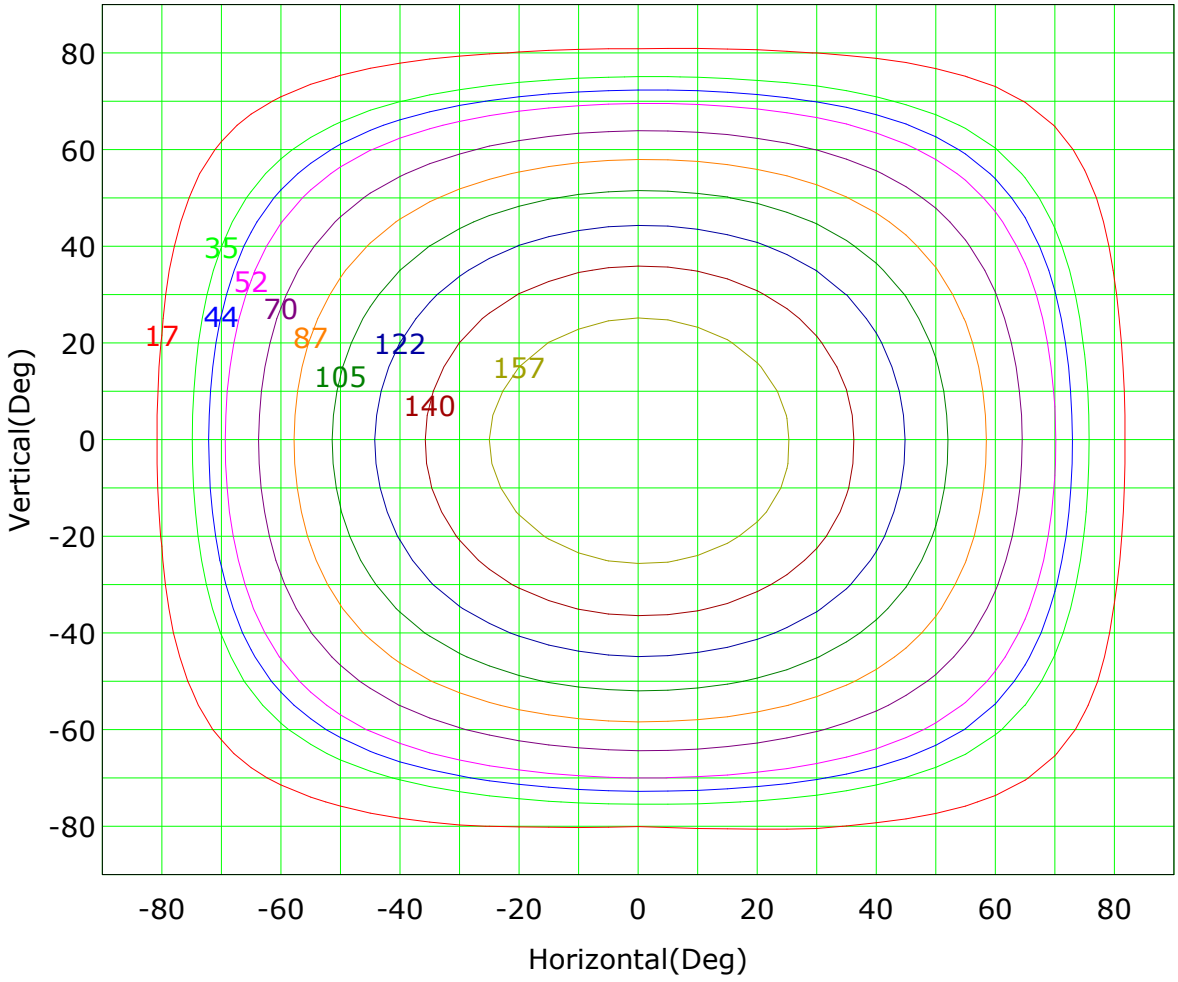


C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Aaron

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

Isocandela (rectangle)



Imax (100%): 175 cd

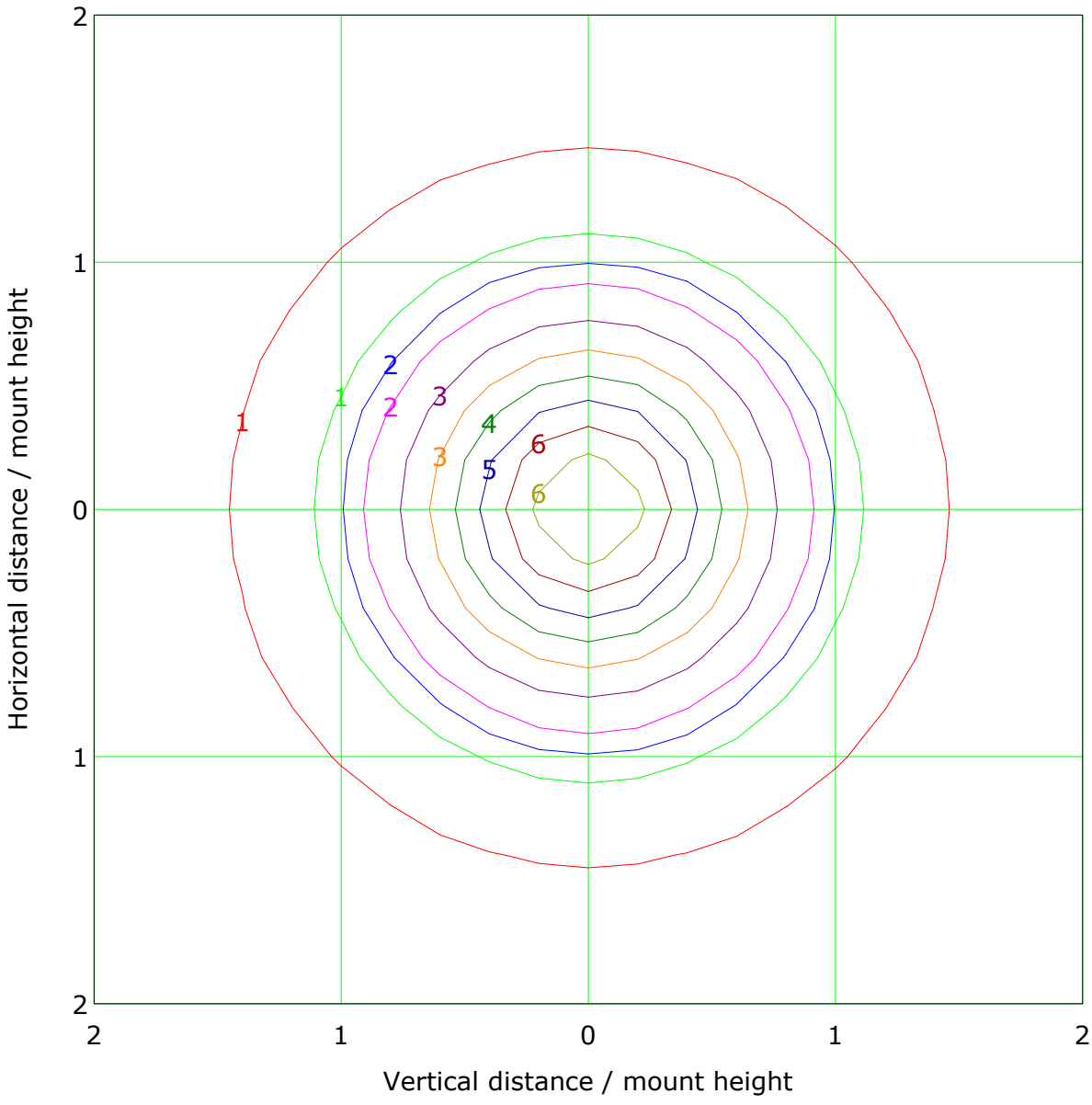
(10%):	17 cd	(20%):	35 cd
(25%):	44 cd	(30%):	52 cd
(40%):	70 cd	(50%):	87 cd
(60%):	105 cd	(70%):	122 cd
(80%):	140 cd	(90%):	157 cd

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

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

IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 7.0 lx

(10%): 0.7 lx	(20%): 1.4 lx
(25%): 1.7 lx	(30%): 2.1 lx
(40%): 2.8 lx	(50%): 3.5 lx
(60%): 4.2 lx	(70%): 4.9 lx
(80%): 5.6 lx	(90%): 6.3 lx

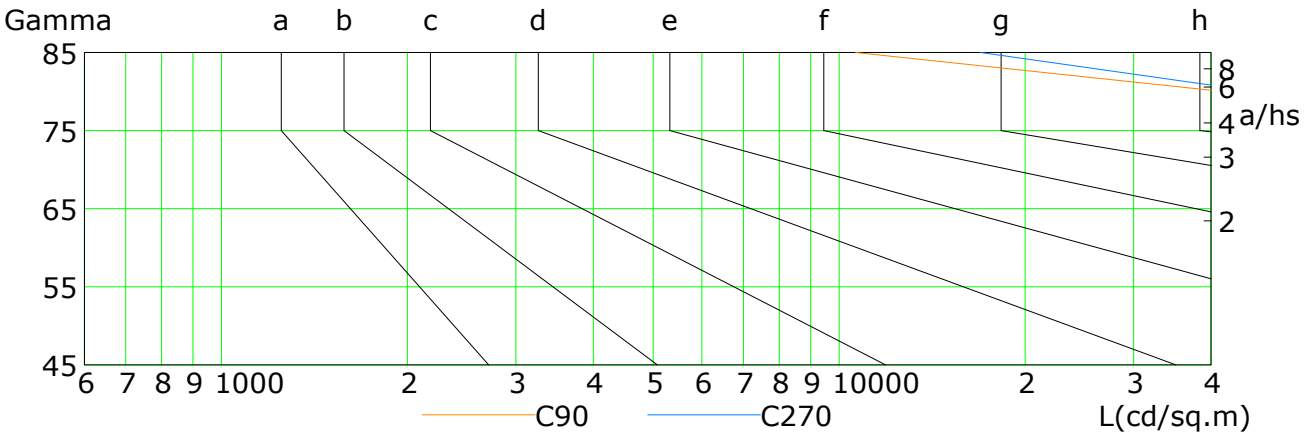
C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Aaron

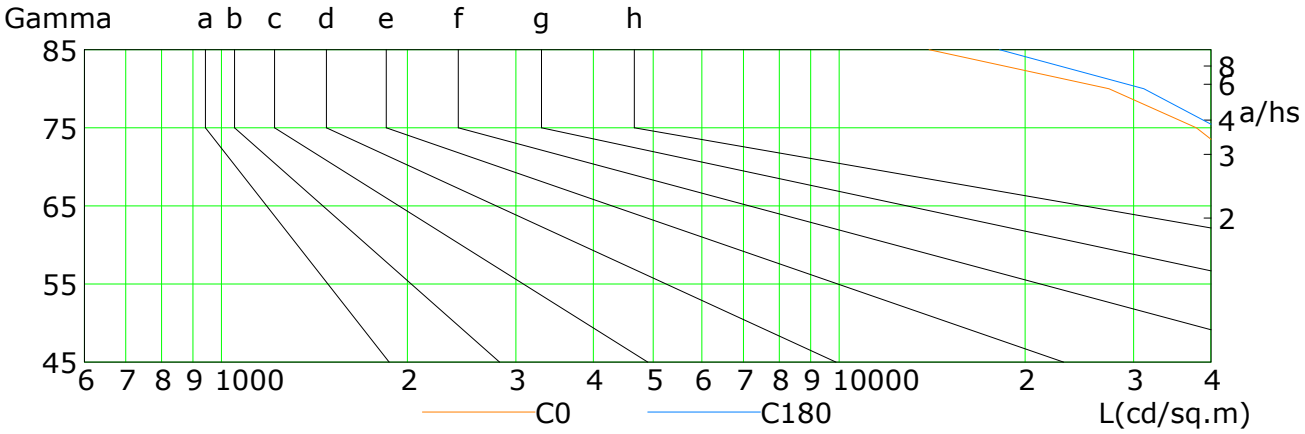
Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

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

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





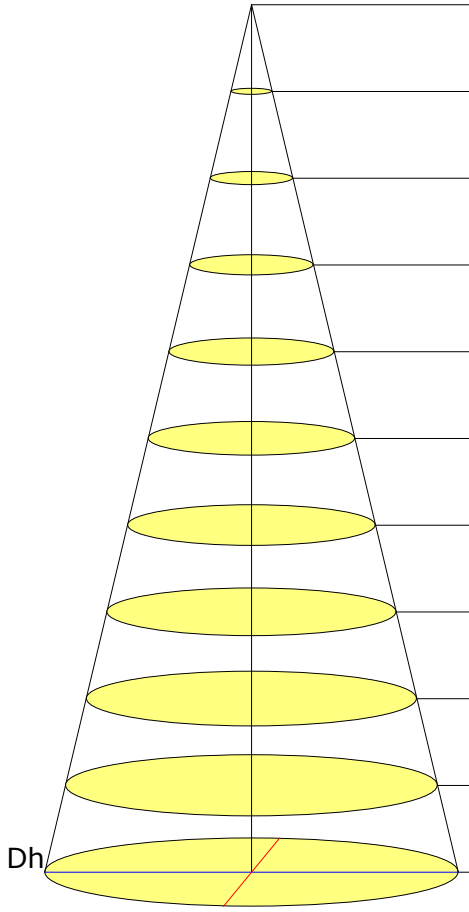
L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	63200	61185	58798	55596	51393	45704	37884	27352	13995
C90	71791	71164	70188	68761	66704	63486	58404	42083	10638
C180	63970	62211	60000	57076	53344	48070	41034	31143	18188
C270	70957	70273	69075	67560	65196	61482	55860	47759	16947

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

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

Illuminance at a Distance



Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
1.0	174.25	3.23/3.23	8.2	26.07
2.0	43.56	6.47/6.46	32.9	6.52
3.0	19.36	9.70/9.69	73.9	2.90
4.0	10.89	12.94/12.92	131.4	1.63
5.0	6.97	16.17/16.15	205.4	1.04
6.0	4.84	19.40/19.37	295.8	0.72
7.0	3.56	22.64/22.60	402.6	0.53
8.0	2.72	25.87/25.83	525.8	0.41
9.0	2.15	29.11/29.06	665.5	0.32
10.0	1.74	32.34/32.29	821.6	0.26

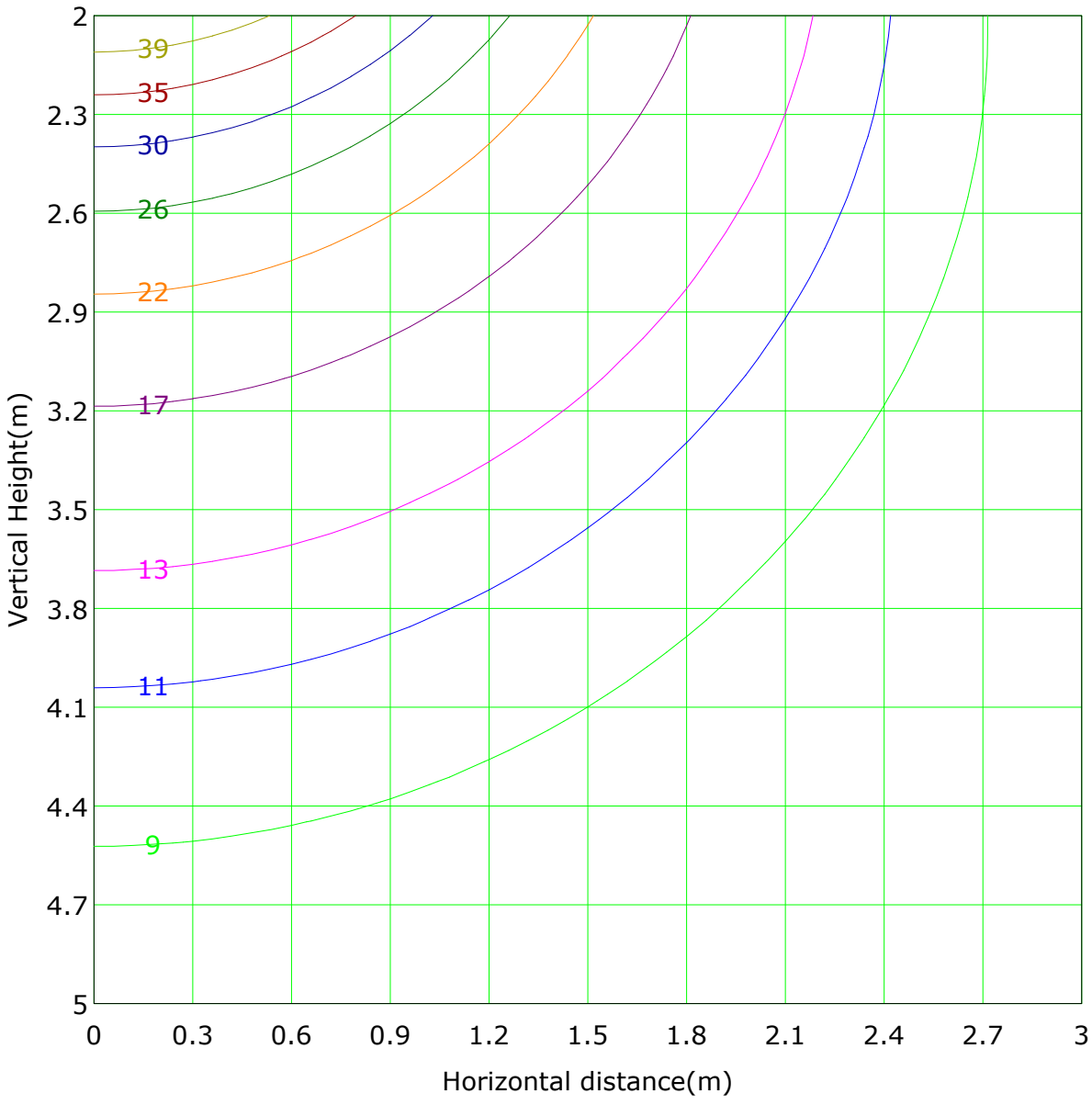
Beam Angle(B): H116.5 V116.5 Field Angle(F): H162.4 V160.9

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

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

Vertical IsoLux Plot



Lowest(m): 2.0m Highest(m): 5.0m Max Lux: 43.6 lx

(10%): 4.4 lx	(20%): 8.7 lx
(25%): 10.9 lx	(30%): 13.1 lx
(40%): 17.4 lx	(50%): 21.8 lx
(60%): 26.1 lx	(70%): 30.5 lx
(80%): 34.9 lx	(90%): 39.2 lx

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

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

GEN LED ACOLYTE®
Architectural Lighting Solutions

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

Area Flux Table

Unit: lm

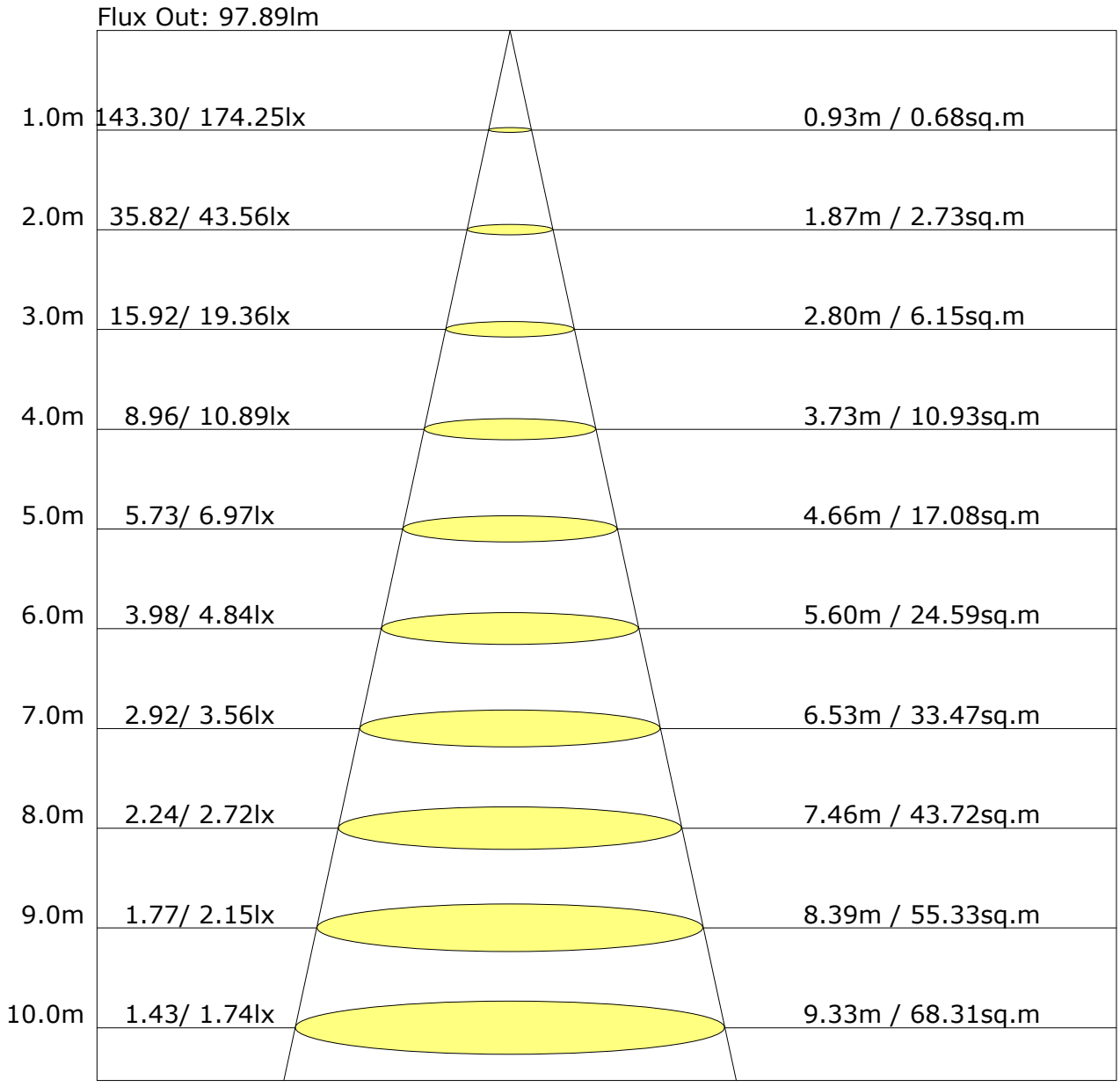
Vertical plane \ Horizontal plane	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90 Flux(T)	Flux(E)
-90	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.0	2.1	0.2
-80	0.0	0.1	0.2	0.3	0.5	0.7	0.9	1.0	1.1	1.1	1.0	0.8	0.6	0.5	0.3	0.1	0.0	0.0	9.1	8.2
-70	0.0	0.1	0.3	0.6	1.0	1.3	1.6	1.9	2.0	2.0	1.9	1.6	1.3	0.9	0.5	0.3	0.1	0.0	17.3	17.0
-60	0.0	0.1	0.4	0.9	1.4	1.9	2.4	2.7	2.9	2.9	2.7	2.3	1.9	1.3	0.8	0.4	0.1	0.0	25.2	25.1
-50	0.0	0.2	0.6	1.1	1.8	2.4	3.0	3.4	3.6	3.6	3.4	3.0	2.4	1.7	1.1	0.5	0.2	0.0	32.2	32.1
-40	0.0	0.2	0.7	1.4	2.1	2.9	3.5	4.0	4.3	4.3	4.0	3.5	2.8	2.1	1.3	0.7	0.2	0.0	37.9	37.9
-30	0.0	0.3	0.8	1.5	2.4	3.2	3.9	4.5	4.7	4.7	4.4	3.9	3.2	2.3	1.5	0.8	0.2	0.0	42.4	42.3
-20	0.0	0.3	0.9	1.6	2.5	3.4	4.2	4.8	5.1	5.1	4.8	4.2	3.4	2.5	1.6	0.8	0.3	0.0	45.4	45.3
-10	0.0	0.3	0.9	1.7	2.6	3.5	4.3	4.9	5.2	5.2	4.9	4.3	3.5	2.6	1.7	0.9	0.3	0.0	46.9	46.9
0	0.0	0.3	0.9	1.7	2.6	3.5	4.3	4.9	5.2	5.2	4.9	4.3	3.5	2.6	1.7	0.9	0.3	0.0	47.0	46.9
10	0.0	0.3	0.9	1.6	2.5	3.4	4.2	4.8	5.1	5.1	4.8	4.2	3.4	2.5	1.6	0.8	0.3	0.0	45.6	45.5
20	0.0	0.3	0.8	1.5	2.4	3.2	4.0	4.5	4.8	4.8	4.5	3.9	3.2	2.3	1.5	0.8	0.2	0.0	42.7	42.6
30	0.0	0.2	0.7	1.4	2.1	2.9	3.6	4.0	4.3	4.3	4.0	3.5	2.8	2.1	1.3	0.7	0.2	0.0	38.3	38.2
40	0.0	0.2	0.6	1.2	1.8	2.5	3.0	3.5	3.7	3.7	3.4	3.0	2.4	1.8	1.1	0.6	0.2	0.0	32.6	32.5
50	0.0	0.2	0.5	0.9	1.4	1.9	2.4	2.8	2.9	2.9	2.7	2.4	1.9	1.4	0.8	0.4	0.1	0.0	25.7	25.5
60	0.0	0.1	0.3	0.6	1.0	1.4	1.7	1.9	2.1	2.0	1.9	1.6	1.3	0.9	0.6	0.3	0.1	0.0	17.8	17.5
70	0.0	0.1	0.2	0.3	0.5	0.7	0.9	1.0	1.1	1.1	1.0	0.9	0.7	0.5	0.3	0.1	0.0	0.0	9.4	8.6
80	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.0	2.1	0.1
90 Flux(T)	0.4	3.3	9.6	18.6	29.0	39.4	48.4	55.1	58.5	58.3	54.6	47.8	38.5	28.1	17.8	9.0	2.9	0.3	519	
Flux(E)	0.1	2.8	9.2	18.2	28.5	38.9	48.1	54.7	58.1	58.0	54.2	47.4	38.1	27.7	17.4	8.6	2.4	0.0		512

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

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

The Average Illuminance Effective Figure



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

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

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	28.9	30.5	29.3	30.9	31.2	28.7	30.3	29.1	30.7	31.0
3H	30.7	32.2	31.1	32.5	32.9	30.4	31.9	30.8	32.2	32.6
4H	31.4	32.8	31.8	33.1	33.5	31.0	32.4	31.4	32.8	33.2
6H	31.8	33.1	32.2	33.5	33.9	31.3	32.6	31.8	33.0	33.4
8H	31.9	33.2	32.4	33.6	34.0	31.4	32.6	31.8	33.0	33.4
12H	32.0	33.2	32.4	33.6	34.0	31.4	32.6	31.8	33.0	33.4
X=4H Y=2H	29.5	30.9	29.9	31.2	31.6	29.3	30.7	29.8	31.1	31.5
3H	31.5	32.7	31.9	33.1	33.5	31.3	32.5	31.7	32.9	33.3
4H	32.2	33.3	32.7	33.7	34.2	32.0	33.0	32.4	33.5	33.9
6H	32.8	33.7	33.2	34.2	34.6	32.4	33.3	32.9	33.8	34.3
8H	32.9	33.8	33.4	34.3	34.7	32.5	33.3	32.9	33.8	34.3
12H	33.0	33.8	33.5	34.3	34.8	32.5	33.3	33.0	33.8	34.2
X=8H Y=4H	32.5	33.3	32.9	33.8	34.3	32.3	33.2	32.8	33.6	34.1
6H	33.1	33.8	33.6	34.3	34.8	32.8	33.5	33.3	34.0	34.5
8H	33.3	34.0	33.8	34.5	35.0	32.9	33.6	33.4	34.1	34.6
12H	33.4	34.0	34.0	34.5	35.1	33.0	33.5	33.5	34.0	34.6
X=12H Y=4H	32.5	33.3	33.0	33.8	34.2	32.3	33.1	32.8	33.6	34.1
6H	33.1	33.8	33.7	34.3	34.8	32.9	33.5	33.4	34.0	34.5
8H	33.4	33.9	33.9	34.4	35.0	33.0	33.6	33.5	34.1	34.7

Calculate in accordance with CIE 190:2010

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

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

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	0.55	0.66	0.73	0.79	0.86	0.92	0.95	1.00	1.03
	0.30		0.47	0.58	0.66	0.72	0.80	0.86	0.90	0.96	0.99
	0.20		0.42	0.52	0.60	0.66	0.75	0.81	0.86	0.92	0.96
0.50	0.50	0.20	0.54	0.64	0.71	0.76	0.83	0.88	0.91	0.96	0.99
	0.30		0.47	0.57	0.64	0.70	0.78	0.83	0.87	0.92	0.96
	0.20		0.41	0.52	0.59	0.65	0.73	0.79	0.83	0.89	0.93
0.30	0.50	0.20	0.52	0.62	0.69	0.73	0.80	0.85	0.88	0.92	0.95
	0.30		0.46	0.56	0.63	0.68	0.76	0.81	0.84	0.89	0.92
	0.20		0.41	0.51	0.58	0.64	0.72	0.77	0.81	0.87	0.90
0.00	0.00	0.00	0.39	0.48	0.55	0.61	0.68	0.73	0.77	0.82	0.85

Rating:4W 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:
Test Type: TYPE C
Temperature: 25
Operator: Aaron

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

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	1.01	0.84	0.71	0.62	0.50	0.41	0.35	0.27	0.22
	0.30		0.85	0.72	0.62	0.55	0.45	0.38	0.33	0.26	0.21
	0.20		0.73	0.63	0.55	0.49	0.41	0.35	0.30	0.24	0.20
0.50	0.50	0.20	0.98	0.81	0.68	0.60	0.47	0.43	0.34	0.26	0.21
	0.30		0.83	0.70	0.60	0.53	0.43	0.36	0.31	0.25	0.20
	0.20		0.72	0.62	0.54	0.48	0.40	0.34	0.29	0.23	0.19
0.30	0.50	0.20	0.95	0.77	0.66	0.57	0.45	0.37	0.32	0.25	0.20
	0.30		0.81	0.68	0.59	0.52	0.42	0.35	0.30	0.24	0.19
	0.20		0.71	0.61	0.53	0.47	0.39	0.33	0.29	0.23	0.19
0.00	0.00	0.00	0.61	0.51	0.44	0.39	0.31	0.26	0.23	0.18	0.14

Rating:4W 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:
Test Type: TYPE C
Temperature: 25
Operator: Aaron

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

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	0.22
	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	0.08	0.09	0.12	0.13	0.14	0.16	0.17
0.50	0.50	0.20	0.16	0.18	0.18	0.19	0.20	0.20	0.21	0.21	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	0.16	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	0.12	0.13	0.15	0.16	0.17	0.18	0.18
	0.20		0.05	0.07	0.08	0.09	0.11	0.13	0.14	0.15	0.16
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:4W 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:
Test Type: TYPE C
Temperature: 25
Operator: Aaron

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