

Report No.: 1

Test Time: 2019/3/28 14:38

Luminaire Property

Luminaire Manufacturer: Havit Commercial

Luminaire Description: HCP-8020704 + HCP-8030704 (4000K)

Current: 0.038 A

Power Factor: 0.871

Voltage: 220.4 V

Power: 7.31 W

Photometric Results

CIE Class: Direct

Measurement Flux: 641.7 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(50%): H47.1

Vertical Diffuse Angle(50%): V47.3

Luminaire Efficacy Rating (LER): 87.83

Max. Intensity: 654.42 cd

S/MH(C0/C180): 0.72

Total Rated Lamp Lumens: 641.7 lm

Efficiency: 100%

Upward Ratio: 1%

Central Intensity: 653.4 cd

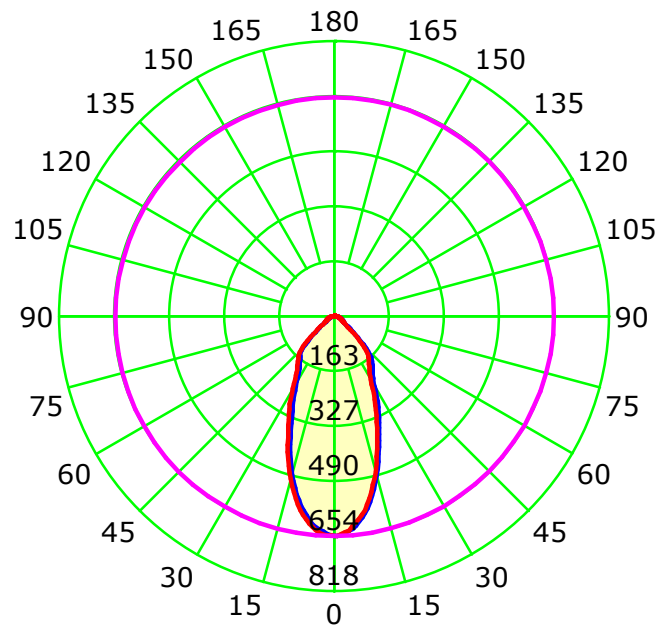
Pos of Max. Intensity: H315 V1

S/MH(C90/C270): 0.72

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd
Average Diffuse Angle(50%): 47.2°

— C0-C180 — C90-C270 — G1

C Plane (°):0.0-360.0: 45.0

Test Lab: Inventfine instruments

Test Type: TYPE C

Temperature: 26

Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0

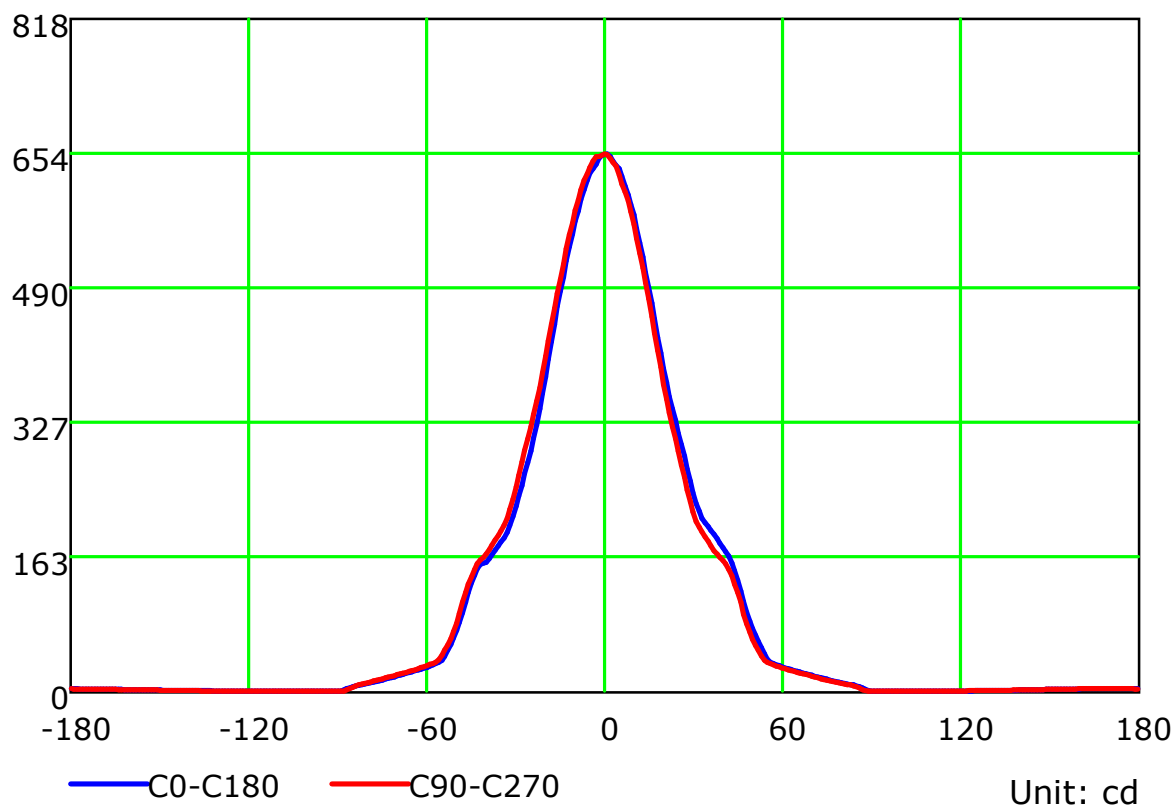
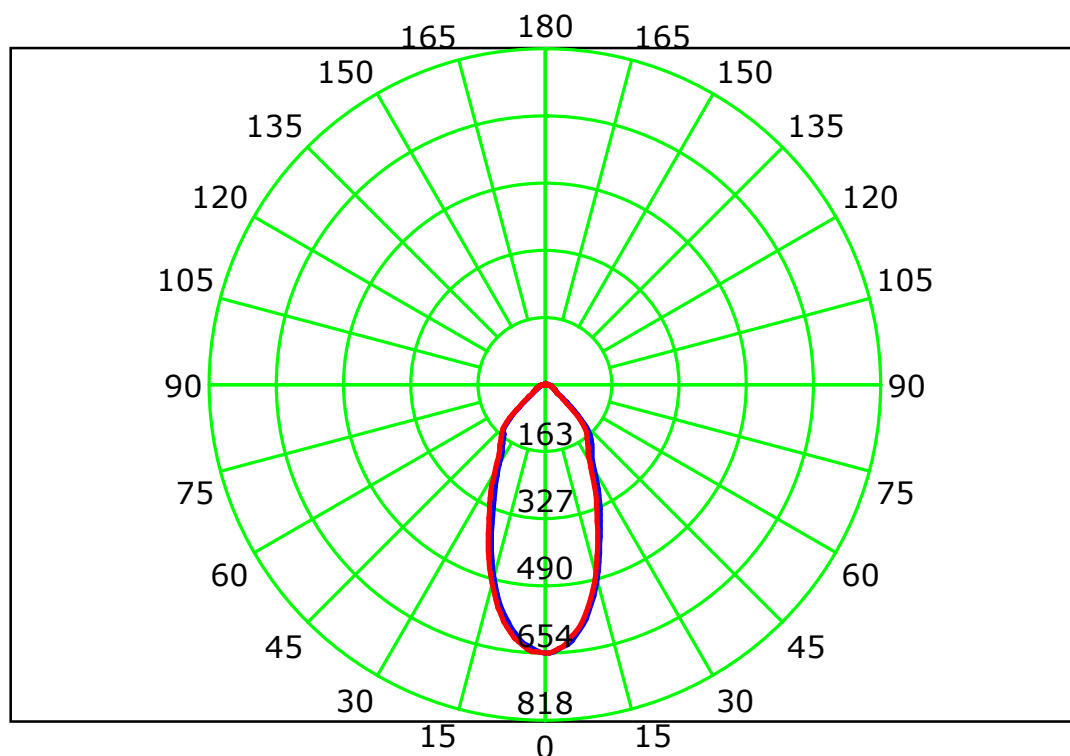
Test Device: GPM-1800B

Distance: 7.970 m

Humidity: 55

Inspector:

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 45.0
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Gamma Plane (°):0.0-180.0:1.0
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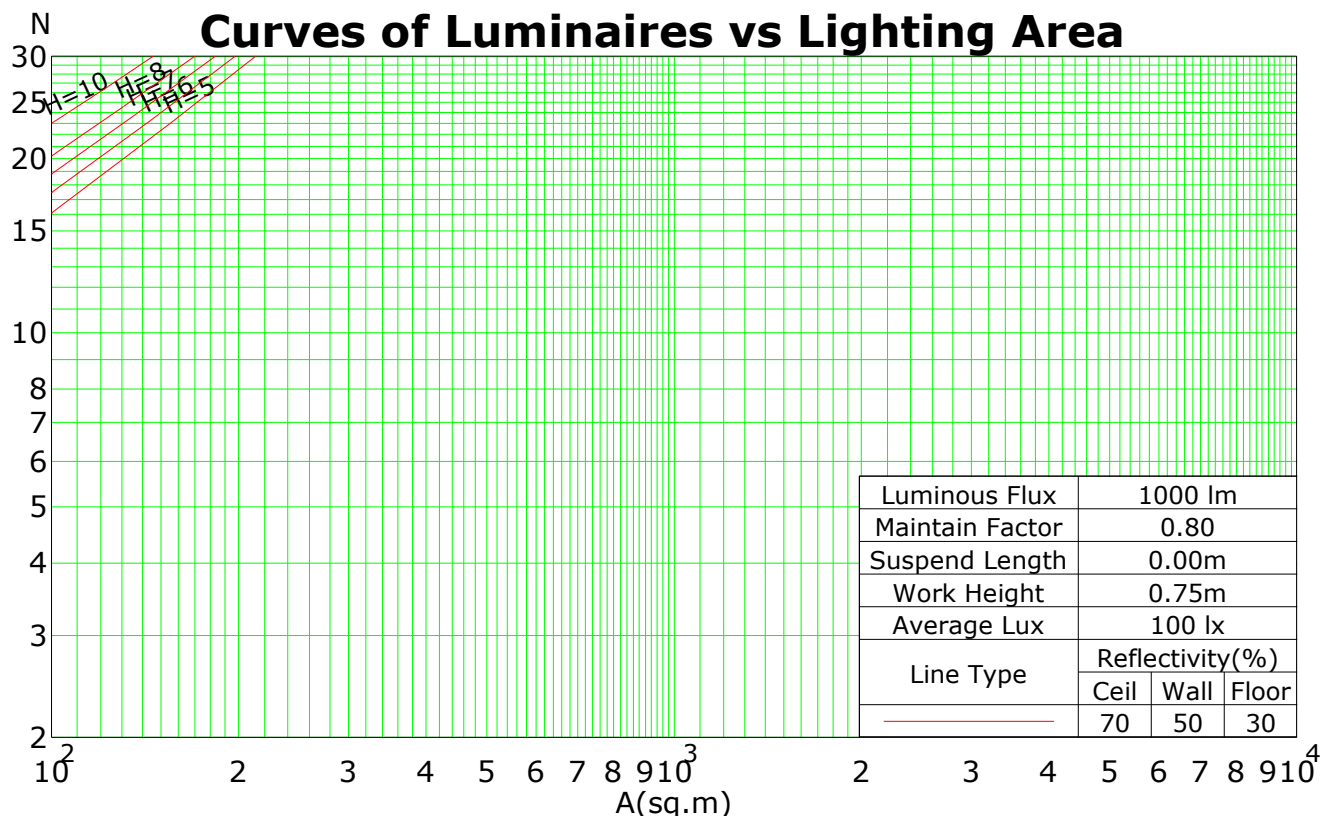
Coefficients Of Utilization - Zonal Cavity Method

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	112	108	105	102	109	106	103	100	101	99	97	98	96	94	94	92	91	89
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80
3	98	90	84	79	95	88	83	78	85	81	77	83	79	75	80	77	74	72
4	92	82	76	71	90	81	75	70	79	73	69	77	72	68	74	71	67	65
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	61	60
6	81	70	63	58	79	70	63	58	68	62	57	66	61	57	65	60	57	55
7	76	65	58	53	75	65	58	53	63	57	53	62	57	53	61	56	52	51
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	48	47
9	68	57	50	46	67	57	50	46	56	50	46	55	49	45	54	49	45	44
10	65	54	47	43	64	53	47	43	52	47	43	51	46	42	51	46	42	41

Spacing Criteria (0-180): 0.72

Spacing Criteria (90-270): 0.72

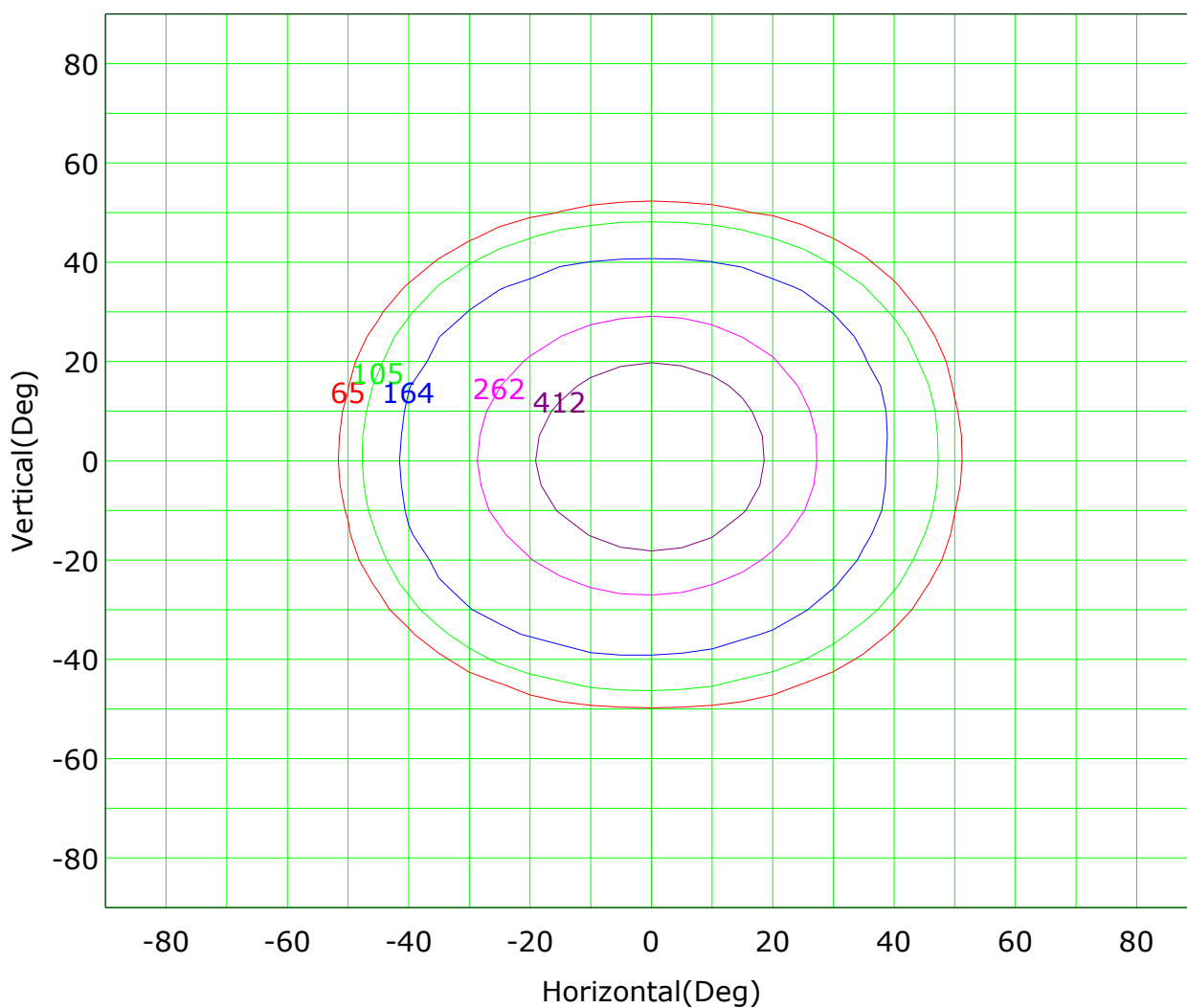
Spacing Criteria (Diagonal): 0.79



C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.970 m
Humidity: 55
Inspector:

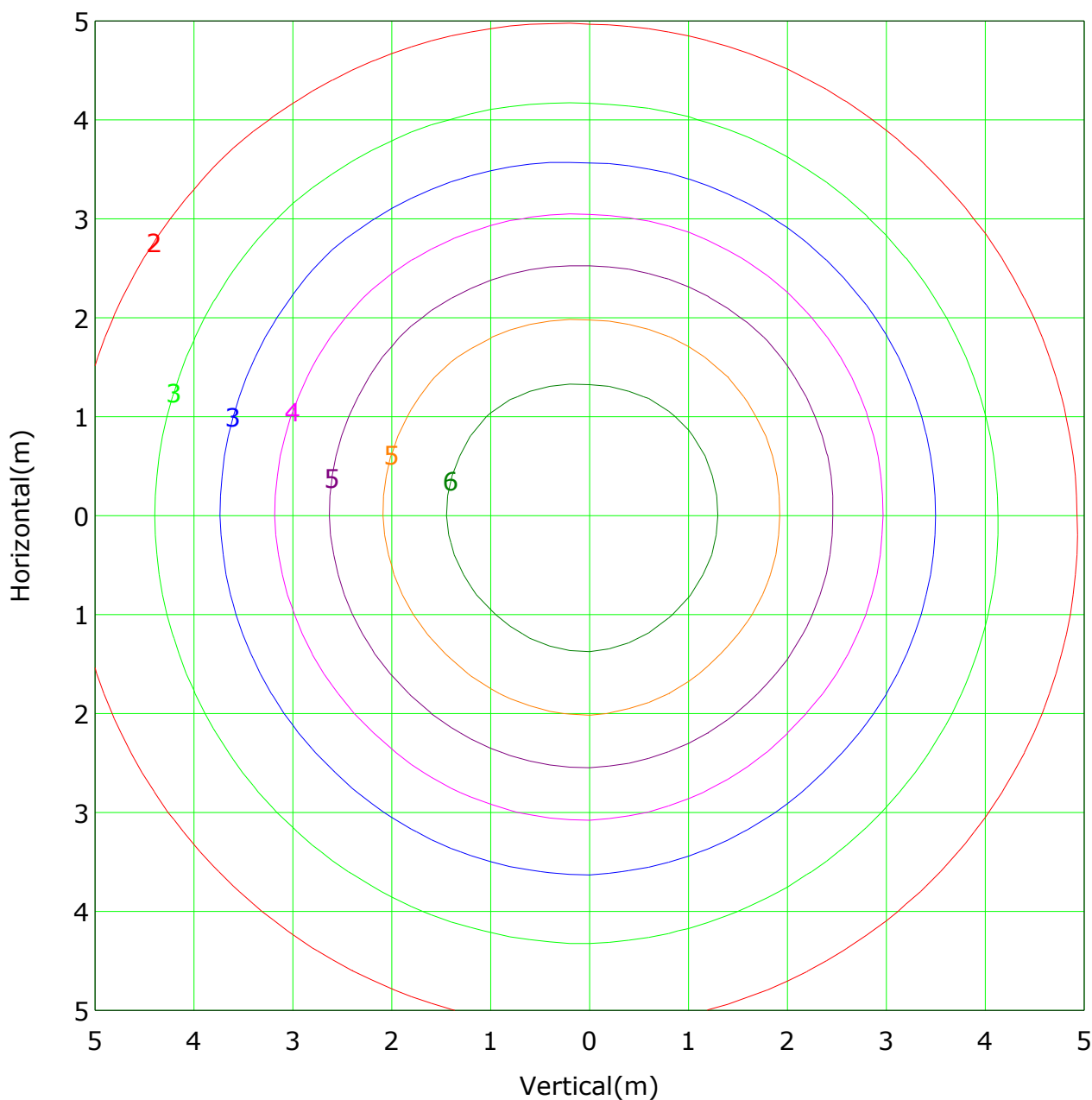
Isocandela (rectangle)



Imax (100%): 654 cd

(10%):	65 cd	(16%):	105 cd
(25%):	164 cd	(40%):	262 cd
(63%):	412 cd	(100%):	654 cd

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 6.5 lx	
(30%): 2.0 lx	(40%): 2.6 lx
(50%): 3.3 lx	(60%): 3.9 lx
(70%): 4.6 lx	(80%): 5.2 lx
(90%): 5.9 lx	(100%): 6.5 lx
(120%): 7.9 lx	(150%): 9.8 lx

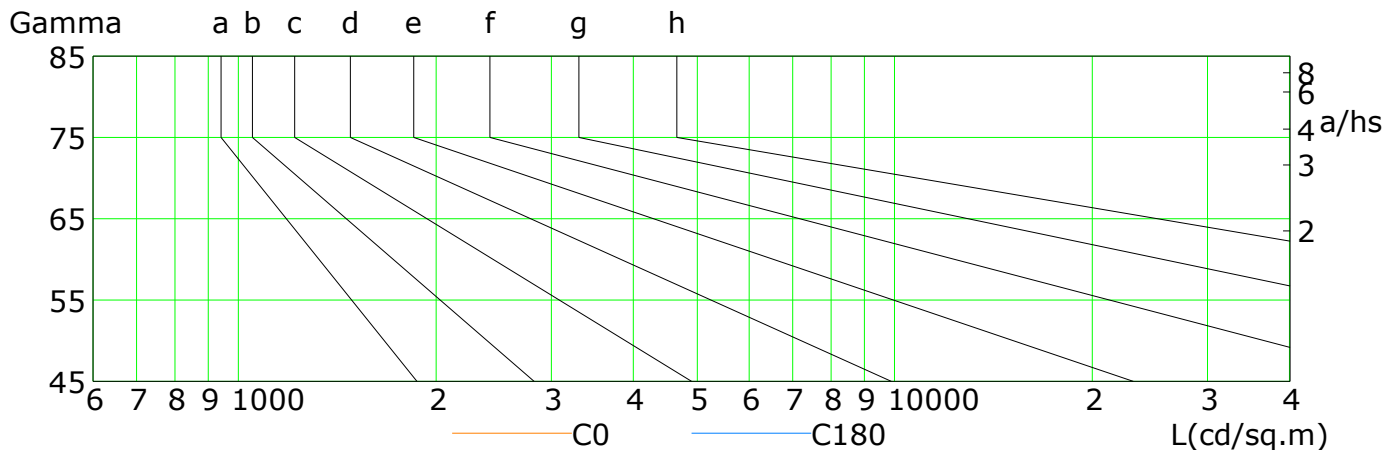
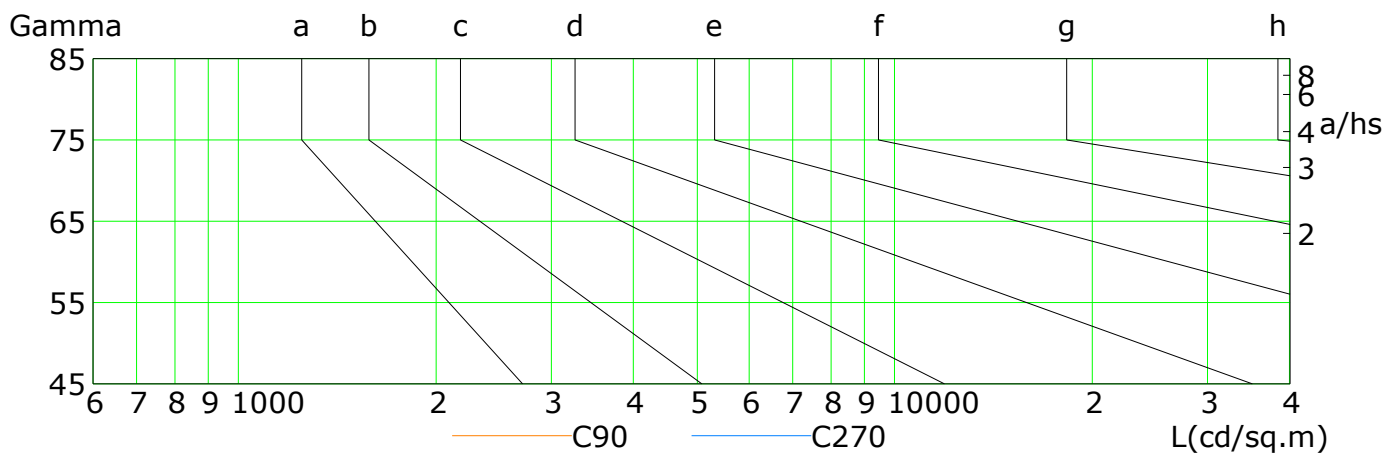
C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.970 m
Humidity: 55
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

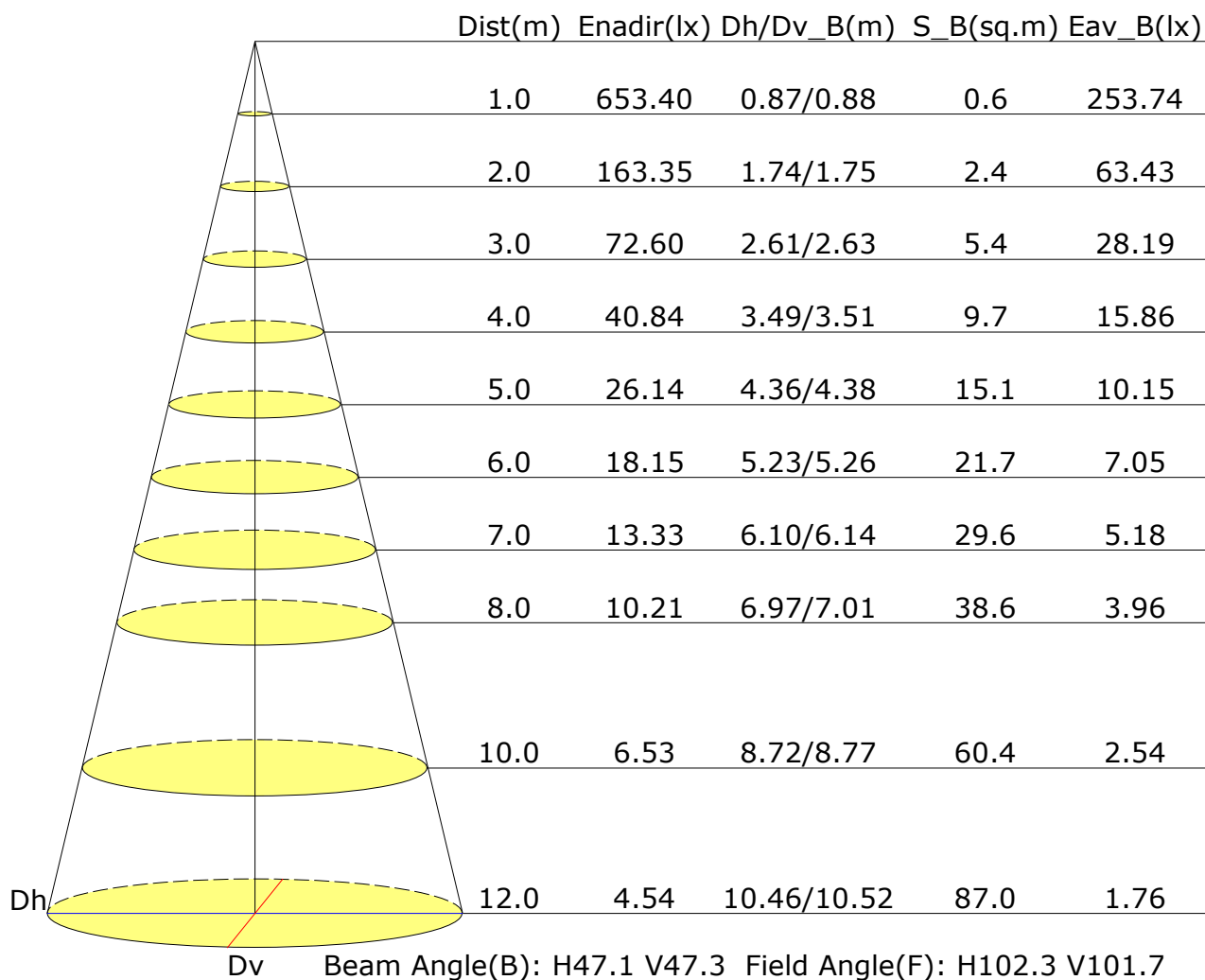


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	135	77	39	30	24	20	15	11	7
C90	120	64	35	29	23	19	14	10	6
C180	132	74	38	30	24	19	14	10	6
C270	139	83	44	31	25	20	15	11	5

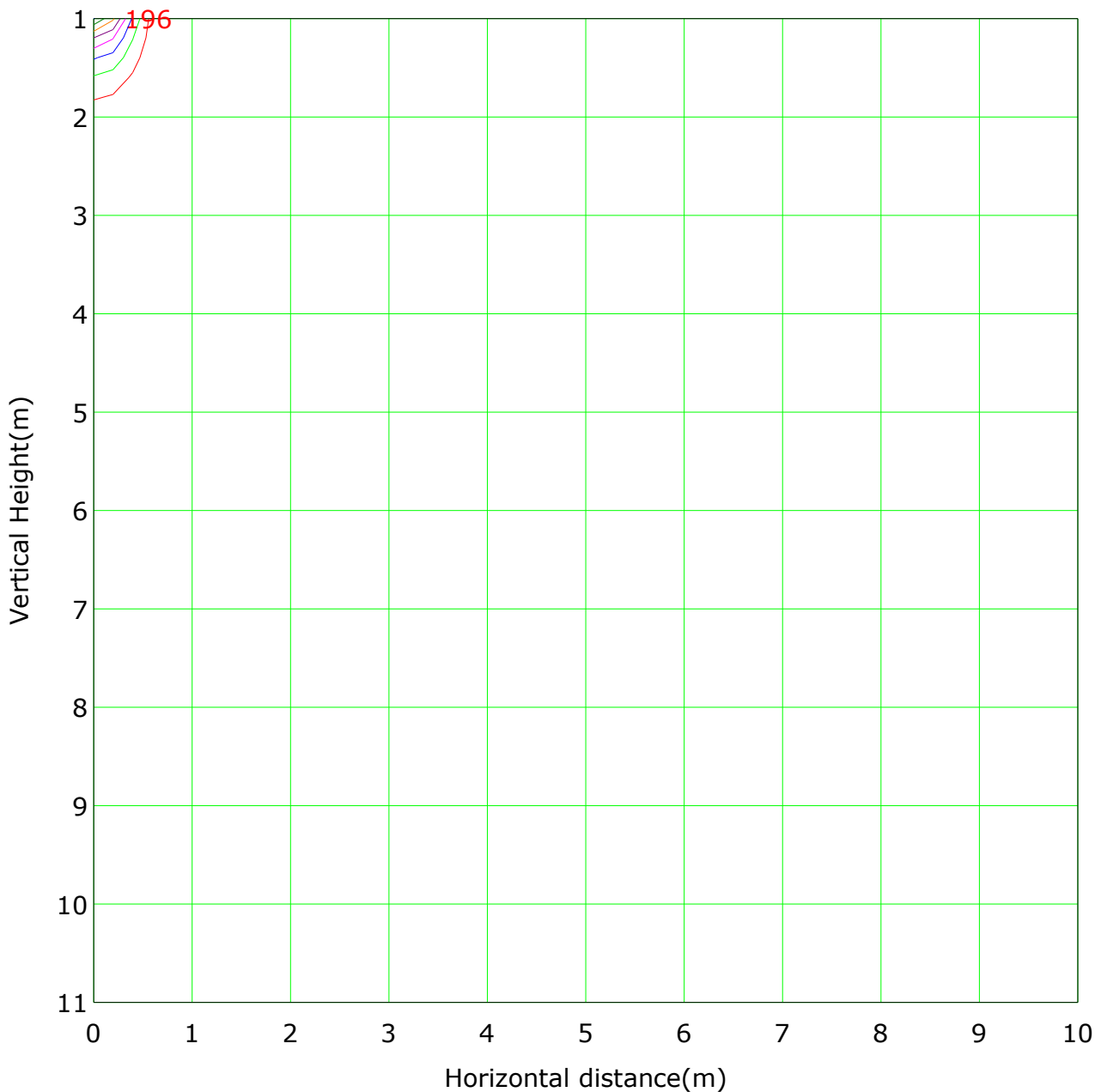
C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
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Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.970 m
Humidity: 55
Inspector:

Illuminance at a Distance



Vertical IsoLux Plot

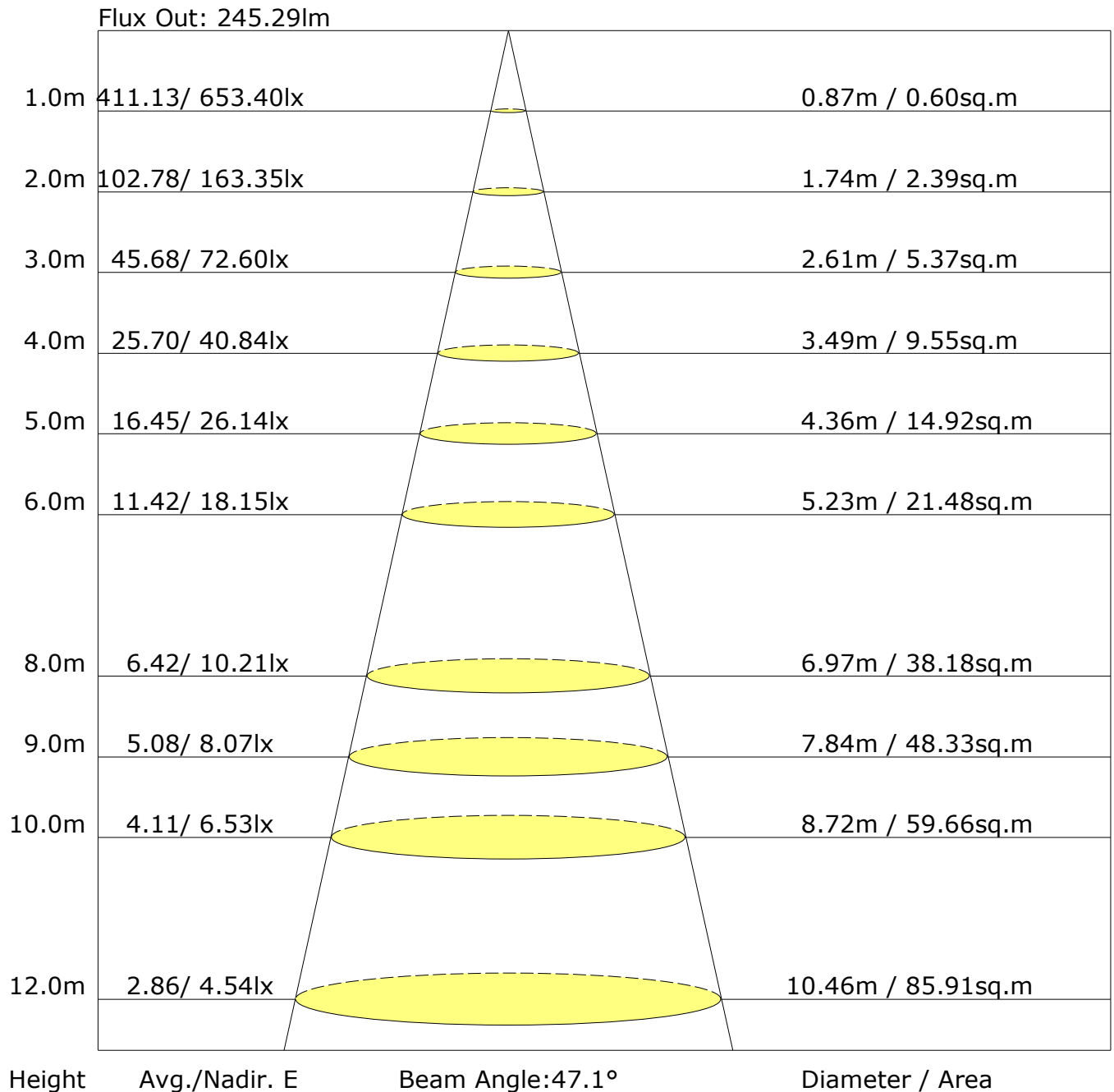


Lowest(m): 1.0m	Highest(m): 11.0m	Max Lux: 653.4 lx
(30%): 196.0 lx	(40%): 261.4 lx	
(50%): 326.7 lx	(60%): 392.0 lx	
(70%): 457.4 lx	(80%): 522.7 lx	
(90%): 588.1 lx	(100%): 653.4 lx	
(120%): 784.1 lx	(150%): 980.1 lx	

C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
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Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.970 m
Humidity: 55
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	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
3H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
12H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
X=4H Y=2H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
3H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
12H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
X=8H Y=4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
12H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
X=12H Y=4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
Variations with the observer position at spacings:										
S=1.0H	-1.\$/-1.\$					-1.\$/-1.\$				
S=1.5H	-1.\$/-1.\$					-1.\$/-1.\$				
S=2.0H	-1.\$/-1.\$					-1.\$/-1.\$				

Calculate in accordance with CIE Pub.117. The table is revised with 642lm ($8\log(F/F_0) = -1.5$).

Candlepower Table

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G0.0	653.4	652.6	654.3	653.6	653.4	652.6	654.3	653.6	653.4	
G1.0	653.8	651.9	653.5	651.7	652.4	650.8	652.3	654.4	653.8	
G2.0	650.7	647.3	648.9	647.4	648.2	651.2	651.2	653.7	650.7	
G3.0	645.3	642.4	643.6	641.7	641.8	651.0	650.7	646.8	645.3	
G4.0	640.0	637.8	639.0	636.9	636.3	644.3	645.8	638.8	640.0	
G5.0	635.8	628.1	628.2	630.7	630.4	635.7	637.9	633.8	635.8	
G6.0	626.7	617.5	617.2	620.3	621.8	629.0	629.8	628.2	626.7	
G7.0	615.2	608.8	608.3	609.8	610.1	621.8	622.2	616.0	615.2	
G8.0	604.2	596.8	597.2	600.3	599.1	610.3	610.3	604.1	604.2	
G9.0	592.3	584.5	583.9	588.6	584.9	597.8	597.8	592.0	592.3	
G10.0	580.1	569.2	568.0	574.0	571.8	585.4	585.7	577.1	580.1	
G11.0	563.0	551.0	551.2	557.8	557.0	571.5	570.1	562.8	563.0	
G12.0	545.6	534.6	533.0	541.6	540.9	556.1	555.6	545.3	545.6	
G13.0	528.4	517.0	515.4	522.8	523.8	538.9	538.5	528.1	528.4	
G14.0	508.9	499.5	497.6	504.9	504.2	521.2	519.7	510.6	508.9	
G15.0	491.0	478.0	478.2	486.3	487.5	501.3	501.2	492.8	491.0	
G16.0	472.5	456.8	456.0	463.9	468.5	483.3	484.0	473.0	472.5	
G17.0	452.8	435.9	435.7	442.3	446.4	464.8	466.3	454.5	452.8	
G18.0	430.6	415.7	415.1	420.2	425.5	446.2	446.8	435.0	430.6	
G19.0	411.4	394.8	394.8	397.3	403.7	427.9	426.9	415.6	411.4	
G20.0	393.1	377.0	373.9	377.5	383.2	408.0	407.5	395.9	393.1	
G21.0	376.1	361.0	356.0	358.5	362.9	388.2	387.3	378.9	376.1	
G22.0	358.9	345.2	339.3	338.5	344.1	369.1	369.7	362.8	358.9	
G23.0	344.0	331.9	321.9	320.8	324.8	349.0	353.0	347.3	344.0	
G24.0	329.9	318.7	307.3	302.8	308.3	331.9	336.7	332.7	329.9	
G25.0	314.7	303.4	292.5	287.7	292.8	315.8	321.8	318.5	314.7	
G26.0	300.6	288.7	275.7	273.3	278.5	300.4	307.5	302.5	300.6	
G27.0	286.0	273.3	260.3	258.2	265.1	285.5	293.5	287.6	286.0	
G28.0	270.5	257.2	245.1	244.3	250.7	270.3	279.0	272.7	270.5	
G29.0	255.6	241.7	231.1	231.1	237.9	257.2	262.9	258.2	255.6	
G30.0	241.9	228.1	218.3	218.9	225.2	244.5	248.6	242.3	241.9	
G31.0	229.0	216.1	207.1	207.0	213.2	231.9	234.5	229.4	229.0	
G32.0	219.3	207.7	199.9	198.4	202.2	219.1	221.5	218.3	219.3	
G33.0	210.8	201.1	194.3	191.7	193.4	208.6	210.8	209.2	210.8	
G34.0	205.1	196.3	188.3	187.3	186.8	200.0	202.4	202.7	205.1	
G35.0	200.3	191.7	183.0	182.9	182.2	193.8	195.4	196.9	200.3	
G36.0	196.1	185.1	176.9	178.5	177.4	189.2	190.0	190.6	196.1	

C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.970 m
Humidity: 55
Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G37.0	191.2	178.6	171.4	172.6	172.1	184.7	184.3	184.5	191.2	
G38.0	185.5	174.1	167.0	167.3	166.4	179.9	178.0	177.8	185.5	
G39.0	180.6	170.8	163.4	162.7	161.5	174.7	172.5	173.2	180.6	
G40.0	175.2	167.5	159.6	158.8	157.4	169.9	167.4	169.2	175.2	
G41.0	170.5	164.1	155.4	154.4	155.8	165.0	163.4	165.9	170.5	
G42.0	165.1	158.9	148.7	147.9	154.4	160.9	159.9	162.5	165.1	
G43.0	155.9	151.0	140.8	138.7	149.4	155.8	155.2	157.4	155.9	
G44.0	146.5	140.3	130.6	129.4	141.7	148.9	148.4	150.4	146.5	
G45.0	135.4	128.6	120.3	118.2	132.1	140.0	139.3	142.0	135.4	
G46.0	121.8	116.0	108.4	107.0	120.7	130.7	130.3	131.6	121.8	
G47.0	109.1	101.8	93.9	94.2	109.0	118.0	120.3	119.8	109.1	
G48.0	96.6	89.5	82.3	83.6	95.5	105.7	108.8	106.7	96.6	
G49.0	85.2	77.9	72.2	74.6	83.9	93.4	94.9	94.0	85.2	
G50.0	76.8	65.9	63.6	66.8	74.3	82.7	83.2	81.4	76.8	
G51.0	68.4	57.1	55.8	60.7	64.7	72.8	73.1	70.6	68.4	
G52.0	60.8	49.9	50.1	54.3	57.0	65.6	64.5	60.4	60.8	
G53.0	53.2	43.3	43.5	47.3	50.2	59.7	56.6	53.4	53.2	
G54.0	45.7	37.9	38.1	40.8	42.8	53.3	50.3	46.7	45.7	
G55.0	39.4	35.2	35.4	36.8	38.2	45.7	43.7	40.8	39.4	
G56.0	35.6	33.6	33.9	34.8	35.5	39.5	38.7	36.8	35.6	
G57.0	33.9	32.2	32.5	33.3	33.8	35.8	35.8	34.8	33.9	
G58.0	32.5	31.0	31.1	31.8	32.3	34.1	34.2	33.4	32.5	
G59.0	31.3	29.8	29.9	30.4	31.0	32.7	32.8	31.9	31.3	
G60.0	29.9	28.5	28.7	29.2	29.5	31.1	31.3	30.7	29.9	
G61.0	28.7	27.4	27.5	28.0	28.3	29.9	30.0	29.5	28.7	
G62.0	27.6	26.4	26.5	26.9	27.2	28.6	28.9	28.2	27.6	
G63.0	26.5	25.3	25.5	25.9	26.0	27.4	27.6	27.1	26.5	
G64.0	25.4	24.3	24.4	24.7	25.0	26.3	26.5	25.9	25.4	
G65.0	24.4	23.3	23.3	23.7	23.9	25.2	25.5	24.9	24.4	
G66.0	23.4	22.2	22.4	22.6	22.8	24.1	24.4	23.9	23.4	
G67.0	22.3	21.3	21.4	21.7	21.9	23.0	23.3	22.8	22.3	
G68.0	21.4	20.4	20.4	20.7	20.9	22.1	22.4	21.9	21.4	
G69.0	20.5	19.4	19.5	19.7	19.8	21.1	21.4	20.9	20.5	
G70.0	19.5	18.5	18.5	18.6	18.8	20.1	20.5	20.0	19.5	
G71.0	18.6	17.6	17.5	17.7	17.8	19.1	19.4	19.0	18.6	
G72.0	17.7	16.6	16.5	16.6	16.7	18.1	18.4	18.0	17.7	
G73.0	16.8	15.7	15.6	15.7	15.7	17.0	17.4	17.0	16.8	

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Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.970 m
Humidity: 55
Inspector:

Candlepower Table (Continue 2)

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G74.0	15.7	14.7	14.8	14.8	14.8	16.0	16.4	15.9	15.7	
G75.0	14.9	13.8	13.7	13.9	13.8	15.1	15.4	15.0	14.9	
G76.0	13.9	12.9	12.9	12.8	13.0	14.1	14.6	14.1	13.9	
G77.0	12.9	12.0	12.0	12.0	12.1	13.2	13.6	13.1	12.9	
G78.0	12.1	11.3	11.2	11.2	11.2	12.2	12.6	12.2	12.1	
G79.0	11.3	10.5	10.5	10.5	10.4	11.2	11.6	11.3	11.3	
G80.0	10.5	9.8	9.8	9.8	9.7	10.3	10.7	10.5	10.5	
G81.0	9.8	9.1	9.1	9.1	9.0	9.4	9.8	9.6	9.8	
G82.0	9.1	8.5	8.5	8.4	8.4	8.6	8.9	8.8	9.1	
G83.0	8.5	7.8	7.8	7.8	7.7	7.8	7.9	8.0	8.5	
G84.0	7.8	6.9	6.8	7.0	7.0	6.8	6.8	7.0	7.8	
G85.0	7.0	5.7	5.6	5.9	6.0	5.5	5.4	5.3	7.0	
G86.0	5.8	4.4	4.2	4.6	4.6	3.8	3.5	3.4	5.8	
G87.0	4.3	2.8	2.3	2.8	3.2	1.9	1.6	1.3	4.3	
G88.0	2.6	0.8	0.8	0.8	1.7	0.4	0.4	0.1	2.6	
G89.0	1.2	0.2	0.3	0.1	0.3	0.1	0.1	0.0	1.2	
G90.0	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.1	
G91.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	
G92.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	
G93.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	
G94.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	
G95.0	0.1	0.1	0.2	0.1	0.1	0.1	0.0	0.1	0.1	
G96.0	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.2	
G97.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	
G98.0	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.2	
G99.0	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.2	
G100.0	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.2	
G101.0	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	
G102.0	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	
G103.0	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	
G104.0	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.2	
G105.0	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.2	
G106.0	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.3	
G107.0	0.3	0.2	0.3	0.2	0.2	0.2	0.1	0.1	0.3	
G108.0	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.3	
G109.0	0.4	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.4	
G110.0	0.3	0.4	0.3	0.3	0.2	0.2	0.1	0.1	0.3	

C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.970 m
Humidity: 55
Inspector:

Candlepower Table (Continue 3)

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G111.0	0.4	0.4	0.4	0.3	0.2	0.2	0.2	0.1	0.4	
G112.0	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.4	
G113.0	0.4	0.4	0.4	0.4	0.3	0.2	0.2	0.2	0.4	
G114.0	0.5	0.4	0.4	0.4	0.3	0.3	0.2	0.2	0.5	
G115.0	0.5	0.4	0.4	0.4	0.3	0.3	0.2	0.2	0.5	
G116.0	0.6	0.5	0.5	0.5	0.3	0.3	0.3	0.2	0.6	
G117.0	0.6	0.6	0.5	0.6	0.3	0.3	0.3	0.3	0.6	
G118.0	0.6	0.6	0.5	0.6	0.4	0.3	0.3	0.3	0.6	
G119.0	0.6	0.6	0.6	0.6	0.4	0.4	0.3	0.3	0.6	
G120.0	0.6	0.7	0.7	0.7	0.4	0.4	0.3	0.3	0.6	
G121.0	0.6	0.7	0.7	0.7	0.4	0.4	0.3	0.3	0.6	
G122.0	0.7	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.7	
G123.0	0.7	0.8	0.8	0.7	0.5	0.4	0.4	0.4	0.7	
G124.0	0.7	0.8	0.8	0.8	0.5	0.5	0.4	0.4	0.7	
G125.0	0.8	0.9	0.9	0.9	0.6	0.5	0.5	0.4	0.8	
G126.0	0.8	0.9	0.9	0.9	0.6	0.5	0.5	0.4	0.8	
G127.0	0.9	1.0	0.9	0.9	0.6	0.6	0.5	0.5	0.9	
G128.0	0.9	1.0	1.0	0.9	0.6	0.6	0.6	0.5	0.9	
G129.0	0.9	1.1	1.0	1.0	0.7	0.6	0.6	0.6	0.9	
G130.0	1.1	1.1	1.1	1.1	0.7	0.6	0.6	0.6	1.1	
G131.0	1.1	1.2	1.1	1.1	0.7	0.6	0.6	0.6	1.1	
G132.0	1.1	1.2	1.2	1.2	0.8	0.7	0.7	0.6	1.1	
G133.0	1.2	1.3	1.2	1.2	0.8	0.7	0.7	0.7	1.2	
G134.0	1.2	1.3	1.3	1.3	0.8	0.8	0.7	0.7	1.2	
G135.0	1.3	1.4	1.4	1.4	0.9	0.8	0.7	0.7	1.3	
G136.0	1.4	1.5	1.5	1.4	0.9	0.9	0.7	0.8	1.4	
G137.0	1.4	1.5	1.5	1.5	0.9	0.9	0.8	0.8	1.4	
G138.0	1.5	1.6	1.6	1.5	1.0	0.9	0.9	0.8	1.5	
G139.0	1.5	1.7	1.7	1.6	1.0	1.0	0.9	0.9	1.5	
G140.0	1.6	1.8	1.7	1.7	1.1	1.0	0.9	0.9	1.6	
G141.0	1.8	1.8	1.8	1.8	1.0	1.1	1.0	1.0	1.8	
G142.0	1.8	1.9	1.9	1.9	1.1	1.1	1.0	1.0	1.8	
G143.0	1.9	2.0	2.0	1.9	1.2	1.2	1.1	1.1	1.9	
G144.0	2.0	2.1	2.0	2.0	1.1	1.2	1.1	1.1	2.0	
G145.0	2.0	2.1	2.1	2.1	1.3	1.3	1.2	1.2	2.0	
G146.0	2.1	2.2	2.2	2.2	1.4	1.3	1.3	1.3	2.1	
G147.0	2.2	2.3	2.3	2.3	1.4	1.4	1.3	1.3	2.2	

C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.970 m
Humidity: 55
Inspector:

Candlepower Table (Continue 4)

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G148.0	2.3	2.3	2.3	2.3	1.5	1.5	1.4	1.3	2.3	
G149.0	2.4	2.5	2.4	2.4	1.5	1.5	1.4	1.4	2.4	
G150.0	2.5	2.5	2.5	2.5	1.6	1.6	1.5	1.5	2.5	
G151.0	2.5	2.6	2.5	2.6	1.6	1.6	1.6	1.5	2.5	
G152.0	2.6	2.7	2.7	2.7	1.7	1.7	1.6	1.6	2.6	
G153.0	2.7	2.8	2.7	2.7	1.8	1.7	1.6	1.6	2.7	
G154.0	2.7	2.8	2.8	2.8	1.8	1.8	1.7	1.7	2.7	
G155.0	2.8	2.9	2.8	2.9	1.9	1.9	1.8	1.8	2.8	
G156.0	2.9	3.0	2.9	3.0	1.9	2.0	1.9	1.8	2.9	
G157.0	3.0	3.0	3.0	3.0	2.0	2.0	1.9	1.9	3.0	
G158.0	3.0	3.1	3.1	3.1	2.0	2.1	2.0	2.0	3.0	
G159.0	3.1	3.1	3.1	3.2	2.1	2.1	2.0	2.0	3.1	
G160.0	3.1	3.2	3.2	3.2	2.2	2.2	2.1	2.1	3.1	
G161.0	3.2	3.2	3.2	3.2	2.2	2.3	2.2	2.1	3.2	
G162.0	3.2	3.2	3.2	3.2	2.3	2.3	2.2	2.2	3.2	
G163.0	3.3	3.2	3.3	3.3	2.4	2.3	2.3	2.2	3.3	
G164.0	3.3	3.3	3.3	3.3	2.4	2.4	2.3	2.3	3.3	
G165.0	3.3	3.3	3.3	3.3	2.5	2.5	2.4	2.4	3.3	
G166.0	3.4	3.3	3.2	3.3	2.5	2.6	2.4	2.4	3.4	
G167.0	3.4	3.3	3.2	3.4	2.6	2.6	2.5	2.5	3.4	
G168.0	3.3	3.3	3.3	3.4	2.6	2.6	2.6	2.5	3.3	
G169.0	3.4	3.3	3.3	3.3	2.7	2.7	2.6	2.6	3.4	
G170.0	3.3	3.3	3.3	3.4	2.7	2.8	2.7	2.6	3.3	
G171.0	3.3	3.3	3.3	3.3	2.8	2.8	2.8	2.7	3.3	
G172.0	3.3	3.3	3.3	3.3	2.9	2.9	2.8	2.8	3.3	
G173.0	3.3	3.3	3.3	3.3	2.9	3.0	2.8	2.8	3.3	
G174.0	3.4	3.3	3.3	3.3	3.0	3.0	2.9	2.8	3.4	
G175.0	3.3	3.3	3.2	3.3	3.0	3.0	2.9	2.9	3.3	
G176.0	3.3	3.2	3.2	3.3	3.0	3.0	3.0	3.0	3.3	
G177.0	3.3	3.2	3.2	3.2	3.1	3.1	3.0	3.0	3.3	
G178.0	3.3	3.2	3.1	3.2	3.2	3.2	3.1	3.0	3.3	
G179.0	3.3	3.2	3.1	3.2	3.2	3.2	3.1	3.1	3.3	
G180.0	3.2	3.1	3.1	3.2	3.2	3.3	3.1	3.1	3.2	

C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.970 m
Humidity: 55
Inspector: