HAVIT COMMERCIAL
http://www.havitcommercial.com.au
Tel: 02 9381 8383
E-mail:sales@havitcommercial.com.au

Report No.: 1 Test Time: 2019/3/28 17:29

Luminaire Property

Luminaire Manufacturer: HAVIT COMMERCIAL
Luminaire Description: HCP-8920704 + HCP-8930704 (4000K) Voltage: 220.4 V
Current: 0.038 A Power: 7.22 W
Power Factor: 0.873

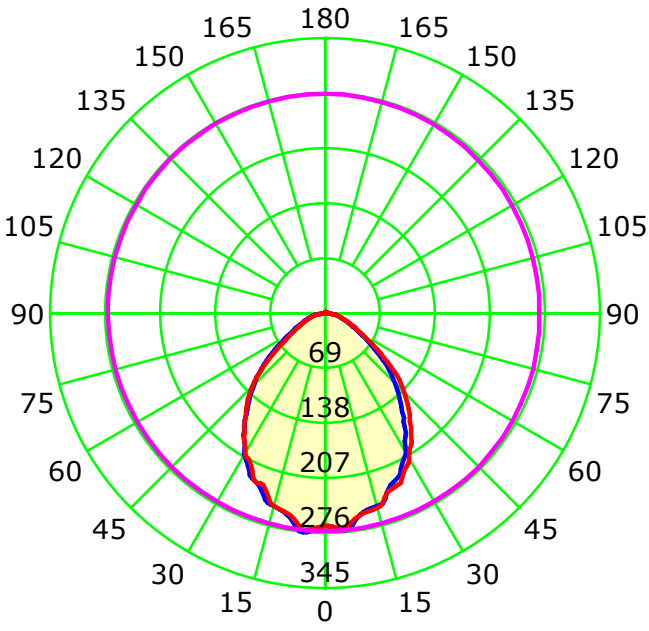
Photometric Results

CIE Class: Direct Total Rated Lamp Lumens: 543.4 lm
Measurement Flux: 543.4 lm Efficiency: 100%
Downward Ratio: 99% Upward Ratio: 1%
Horizontal Diffuse Angle(50%): H85.2
Vertical Diffuse Angle(50%): V89.7
Luminaire Efficacy Rating (LER): 75.31 Central Intensity: 266.76 cd
Max. Intensity: 276.05 cd Pos of Max. Intensity: H180 V6
S/MH(C0/C180): 1.15 S/MH(C90/C270): 1.16

Picture Of Luminaire



Luminous Intensity Distribution Curve

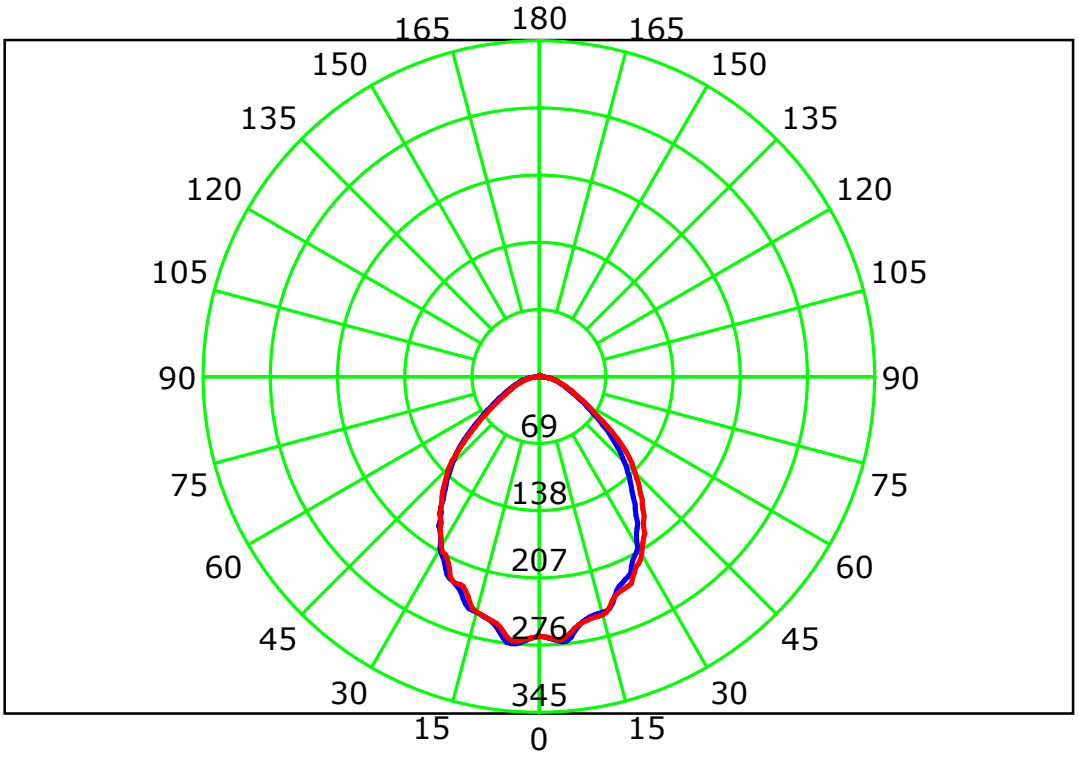


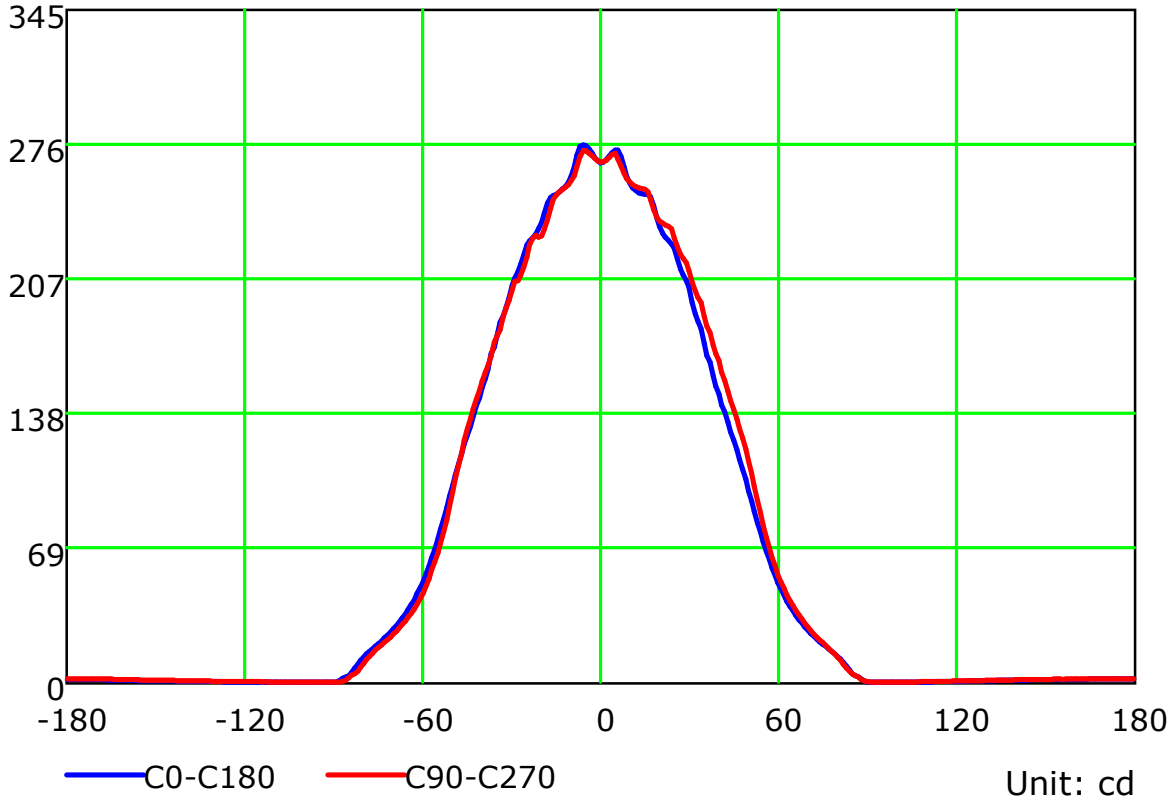
Unit: cd
Average Diffuse Angle(50%): 87.2°
C0-C180 C90-C270 G6

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

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Luminous Intensity Distribution Curve





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
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Distance: 7.970 m
Humidity: 55
Inspector:

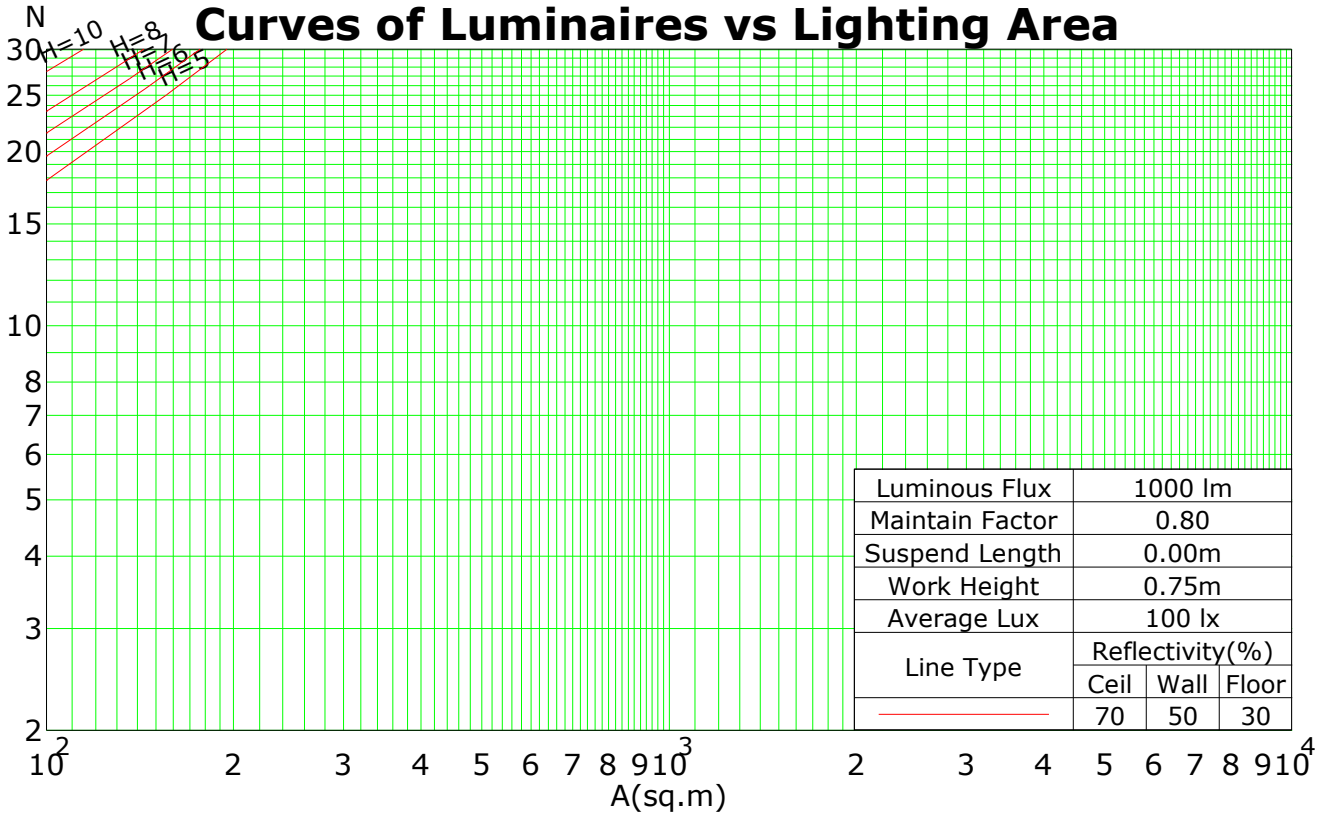
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Coefficients Of Utilization - Zonal Cavity Method

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	110	106	103	99	108	104	101	98	100	97	94	96	93	91	92	90	89	87
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75
3	94	85	77	72	91	83	76	71	80	74	70	77	73	69	75	71	67	65
4	87	76	68	62	85	75	68	62	72	66	61	70	65	60	68	63	59	57
5	80	69	61	55	78	68	60	54	66	59	54	64	58	53	62	57	53	51
6	75	63	55	49	73	62	54	48	60	53	48	58	52	48	57	51	47	45
7	70	57	49	44	68	57	49	43	55	48	43	54	47	43	52	47	42	41
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	33
10	57	45	38	33	56	45	37	33	44	37	33	43	37	32	42	36	32	31

Spacing Criteria (0-180): 1.15
Spacing Criteria (90-270): 1.16
Spacing Criteria (Diagonal): 1.21

Curves of Luminaires vs Lighting Area

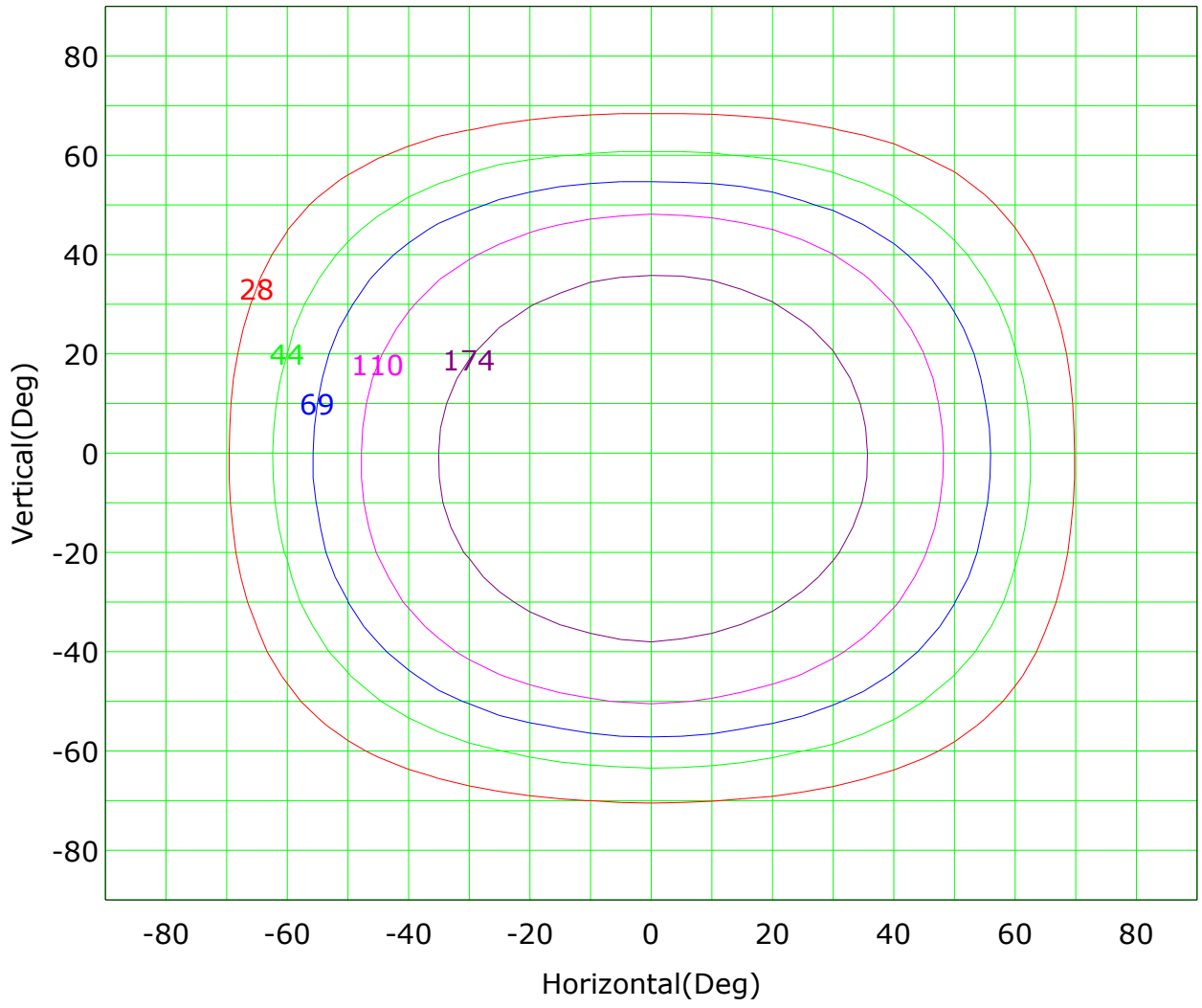


C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator: Jacky tang

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

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Isocandela (rectangle)



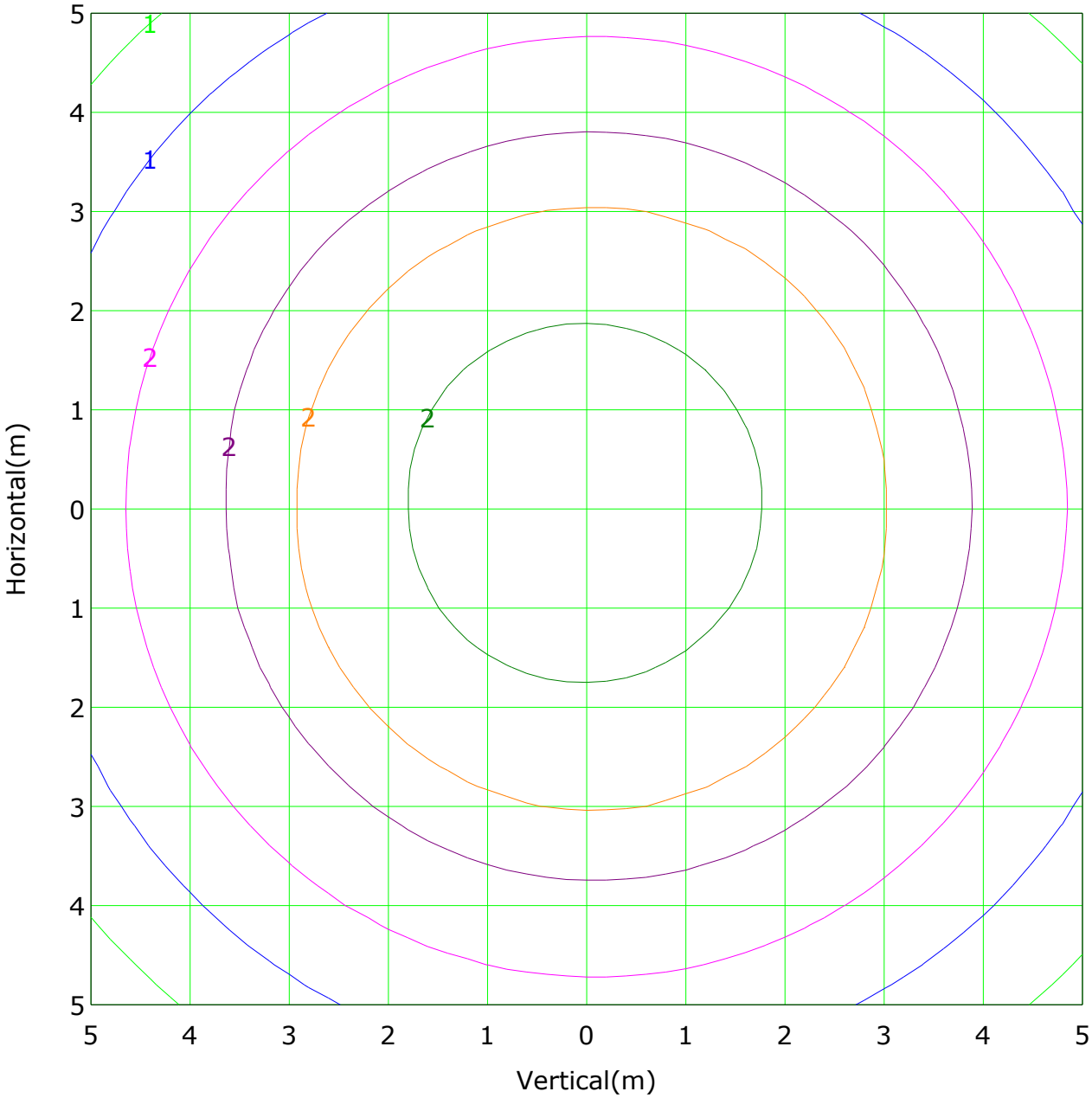
Imax (100%): 276 cd

(10%): 28 cd
(16%): 44 cd
(25%): 69 cd
(40%): 110 cd
(63%): 174 cd
(100%): 276 cd

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



Mounting Height: 10.0m Max Lux(100%): 2.7 lx

(30%): 0.8 lx	(40%): 1.1 lx
(50%): 1.4 lx	(60%): 1.6 lx
(70%): 1.9 lx	(80%): 2.2 lx
(90%): 2.5 lx	(100%): 2.7 lx
(120%): 3.3 lx	(150%): 4.1 lx

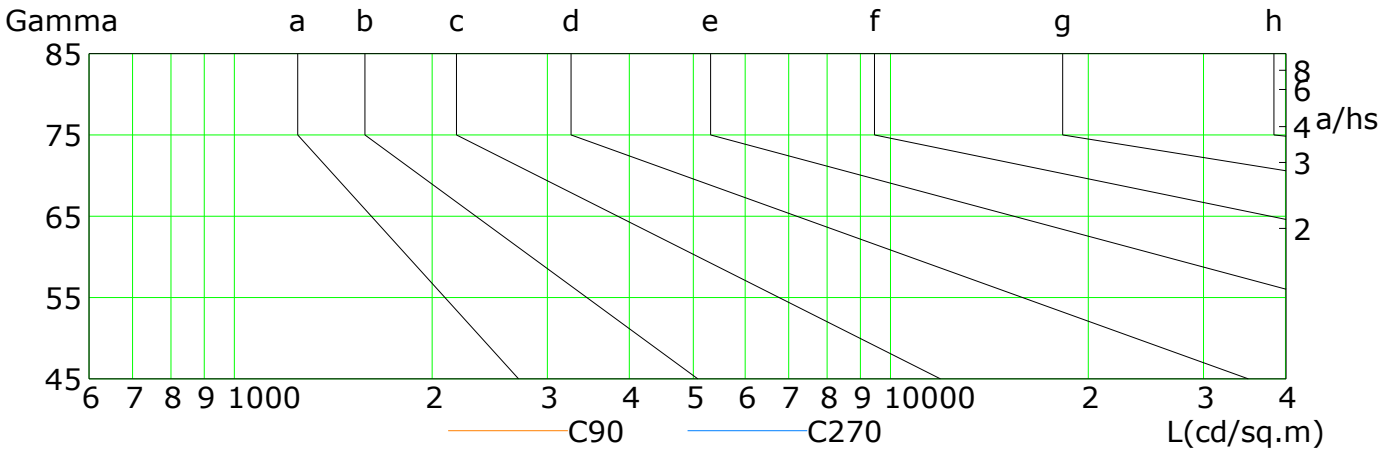
C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator: Jacky tang

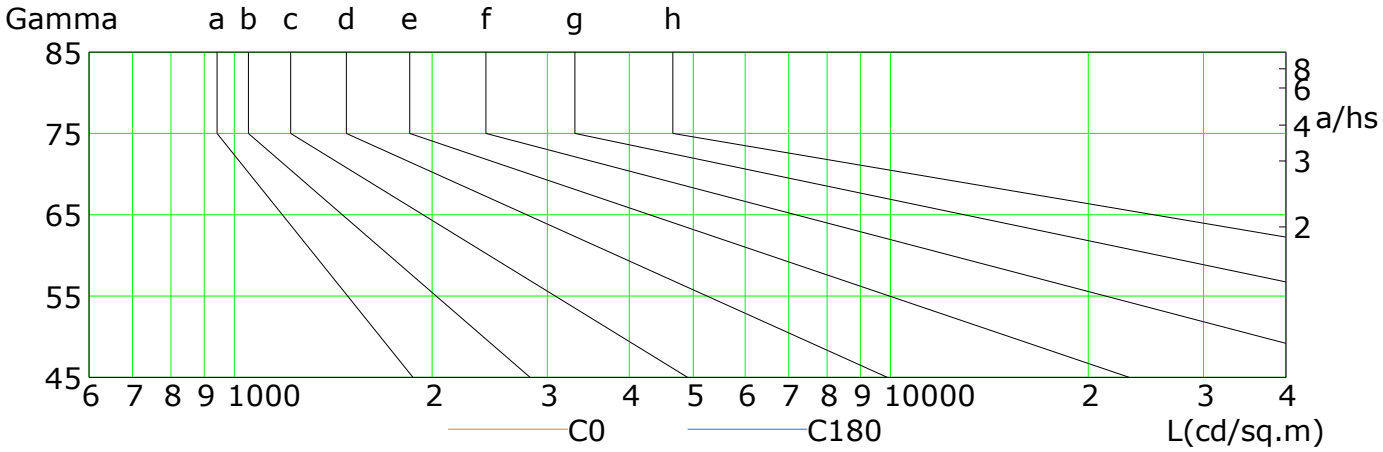
Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.970 m
Humidity: 55
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Lum Limit Curve

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





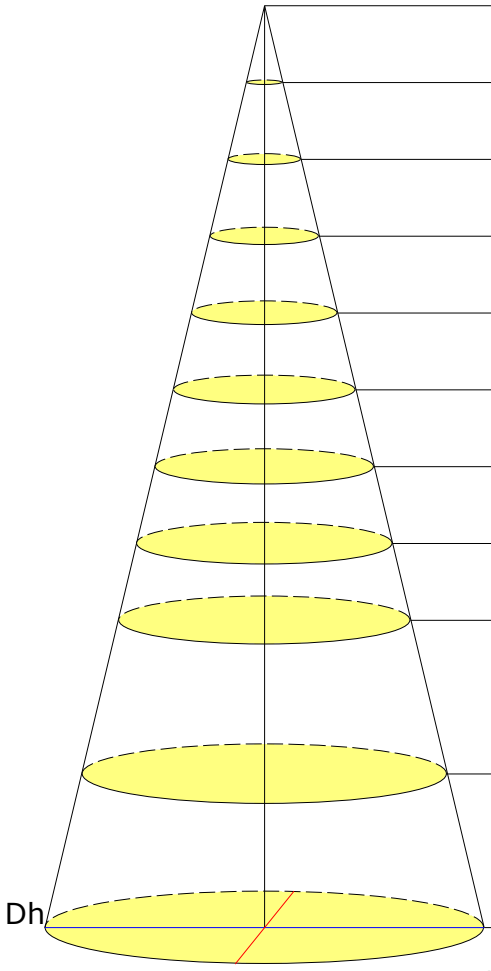
L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	124	99	72	51	37	27	20	13	5
C90	140	114	81	55	39	28	20	13	4
C180	127	101	74	52	37	27	20	13	3
C270	130	98	67	46	33	25	18	10	3

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:

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Illuminance at a Distance



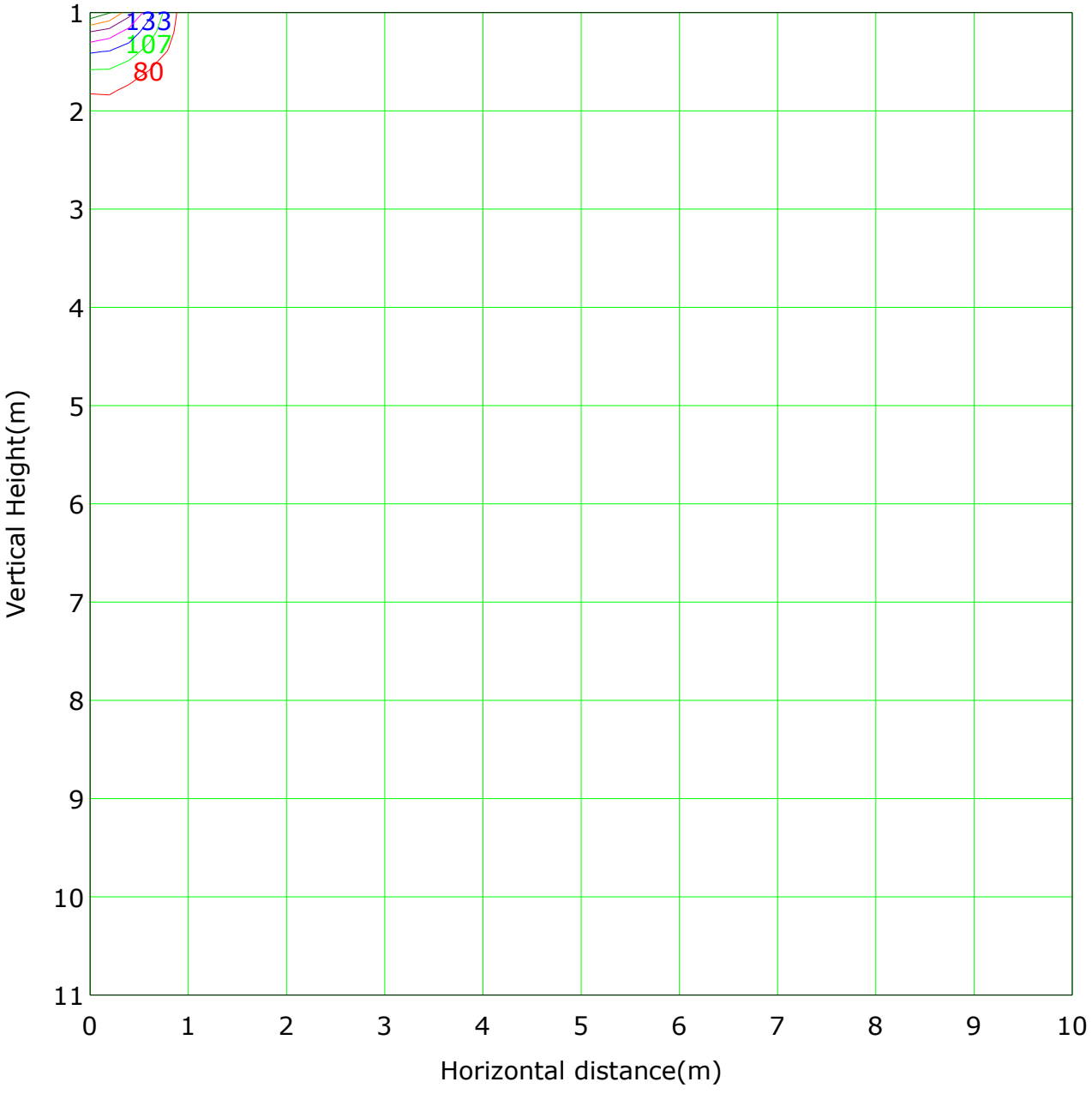
Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
1.0	266.76	1.83/1.98	2.9	71.18
2.0	66.69	3.66/3.97	11.5	17.80
3.0	29.64	5.49/5.95	25.9	7.91
4.0	16.67	7.32/7.93	46.0	4.45
5.0	10.67	9.15/9.92	71.9	2.85
6.0	7.41	10.98/11.90	103.6	1.98
7.0	5.44	12.81/13.89	141.0	1.45
8.0	4.17	14.64/15.87	184.1	1.11
10.0	2.67	18.30/19.84	287.7	0.71
12.0	1.85	21.96/23.80	414.3	0.49

Beam Angle(B): H84.9 V89.5 Field Angle(F): H139.4 V138.9

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:

Vertical IsoLux Plot



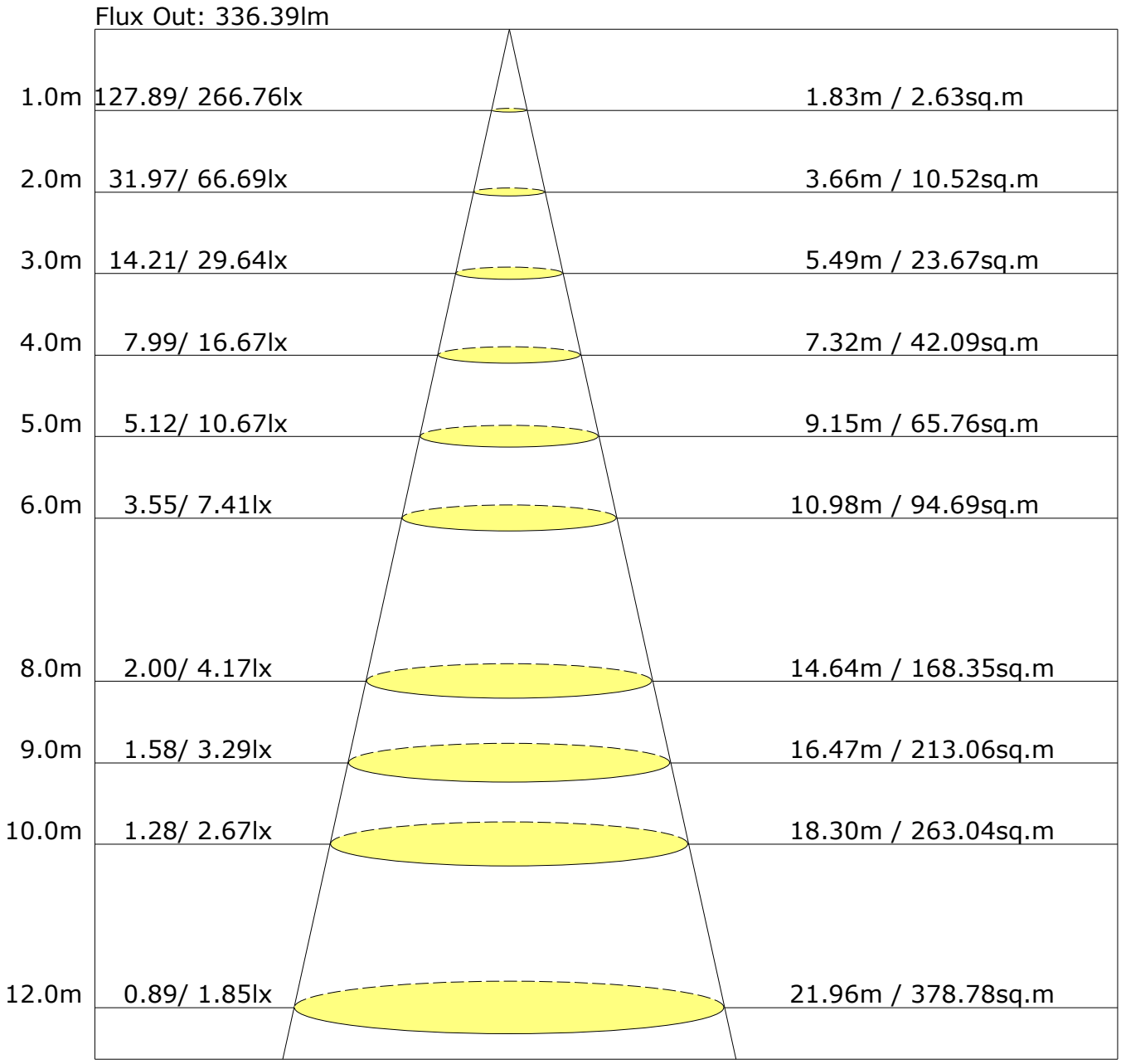
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 266.8 lx

(30%): 80.0 lx	(40%): 106.7 lx
(50%): 133.4 lx	(60%): 160.1 lx
(70%): 186.7 lx	(80%): 213.4 lx
(90%): 240.1 lx	(100%): 266.8 lx
(120%): 320.1 lx	(150%): 400.1 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:

The Average Illuminance Effective Figure



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:

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 543lm (8log(F/F0) = -2.1).

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:

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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	266.8	267.1	267.1	267.2	266.8	267.1	267.1	267.2	266.8	
G1.0	267.2	267.3	267.3	267.6	267.6	267.9	267.8	267.7	267.2	
G2.0	268.3	268.6	268.1	268.7	269.2	269.4	268.9	268.6	268.3	
G3.0	270.0	270.6	269.5	270.5	271.5	271.1	270.2	269.7	270.0	
G4.0	271.9	272.8	271.1	272.7	273.8	272.7	271.7	271.0	271.9	
G5.0	273.1	273.9	271.5	274.2	275.5	274.2	273.0	272.0	273.1	
G6.0	273.2	272.5	268.8	272.2	276.0	274.8	272.9	272.5	273.2	
G7.0	270.1	268.3	264.9	267.4	275.1	273.7	270.0	270.4	270.1	
G8.0	264.3	262.7	261.0	263.1	270.7	269.4	264.8	265.5	264.3	
G9.0	259.5	258.4	258.5	259.9	264.7	263.6	260.3	260.7	259.5	
G10.0	256.1	256.1	256.7	258.2	259.9	259.8	257.3	257.1	256.1	
G11.0	253.9	254.9	255.4	256.9	256.8	257.1	255.5	255.1	253.9	
G12.0	252.4	254.5	254.6	256.0	254.6	255.4	254.1	253.9	252.4	
G13.0	251.4	254.4	253.9	255.2	253.1	254.1	252.9	253.2	251.4	
G14.0	250.9	254.4	253.5	254.4	251.9	252.6	251.8	252.4	250.9	
G15.0	250.7	254.0	253.2	253.8	250.7	251.3	250.3	251.2	250.7	
G16.0	250.4	252.8	251.9	252.7	249.9	249.4	248.1	249.3	250.4	
G17.0	249.3	249.3	248.1	250.2	248.9	246.8	243.4	245.7	249.3	
G18.0	244.6	244.1	242.5	245.3	246.0	241.7	237.4	239.4	244.6	
G19.0	238.5	239.6	238.9	240.5	240.8	237.2	232.6	233.9	238.5	
G20.0	234.2	236.4	236.7	236.9	236.2	234.1	229.1	230.8	234.2	
G21.0	230.5	234.3	235.7	235.3	232.7	231.7	228.6	228.8	230.5	
G22.0	228.6	233.1	234.9	234.4	230.2	229.9	229.5	227.6	228.6	
G23.0	226.9	232.1	234.1	233.1	228.2	228.0	228.1	226.3	226.9	
G24.0	225.0	230.5	232.8	231.1	226.7	225.4	224.7	224.2	225.0	
G25.0	223.0	226.0	228.2	227.6	224.7	220.8	218.3	219.6	223.0	
G26.0	217.3	220.7	223.7	221.7	219.5	214.7	213.0	212.2	217.3	
G27.0	212.3	216.5	219.8	217.1	214.5	211.5	208.9	207.4	212.3	
G28.0	209.0	213.5	217.6	214.3	210.8	210.2	206.4	206.0	209.0	
G29.0	206.3	211.3	215.5	211.9	207.5	208.1	206.0	204.8	206.3	
G30.0	203.0	208.2	211.3	208.8	204.0	204.0	201.5	199.8	203.0	
G31.0	194.9	201.8	205.5	201.6	197.4	196.9	196.0	192.9	194.9	
G32.0	189.3	197.2	201.0	196.6	192.1	191.6	191.8	187.6	189.3	
G33.0	185.4	193.4	197.8	193.3	188.2	188.1	187.7	183.5	185.4	
G34.0	181.7	190.4	194.9	190.1	184.8	184.9	180.8	179.9	181.7	
G35.0	173.9	183.9	187.9	183.5	177.6	178.0	177.6	173.0	173.9	
G36.0	167.9	177.9	183.0	177.9	172.2	173.9	174.6	169.3	167.9	

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	164.6	174.4	179.6	174.0	168.6	168.9	167.4	164.1	164.6	
G38.0	157.3	167.6	173.1	166.5	160.7	162.2	162.6	156.8	157.3	
G39.0	152.1	162.8	168.8	161.6	156.0	159.0	159.2	153.6	152.1	
G40.0	147.9	159.4	165.1	158.3	151.2	154.1	154.7	148.6	147.9	
G41.0	142.5	153.9	159.3	151.8	146.2	149.0	149.9	143.6	142.5	
G42.0	138.9	149.8	155.0	147.4	142.0	144.9	145.4	139.2	138.9	
G43.0	133.5	144.6	149.5	142.3	136.7	140.1	140.5	134.6	133.5	
G44.0	128.8	139.2	144.7	137.5	131.5	135.3	135.5	129.9	128.8	
G45.0	124.4	134.9	140.2	132.6	127.0	130.4	130.1	124.6	124.4	
G46.0	119.3	130.3	135.1	128.1	122.4	125.2	124.3	119.5	119.3	
G47.0	114.4	125.2	130.4	123.1	117.5	119.9	117.6	114.2	114.4	
G48.0	109.4	120.2	125.4	118.4	111.8	113.7	111.1	108.8	109.4	
G49.0	104.3	114.6	119.8	113.4	106.4	107.8	104.4	102.7	104.3	
G50.0	98.5	108.1	113.8	107.8	101.0	101.6	97.7	97.1	98.5	
G51.0	93.2	101.9	107.4	101.4	95.4	94.4	90.1	91.8	93.2	
G52.0	87.8	95.6	100.7	95.5	89.9	88.1	83.6	86.5	87.8	
G53.0	82.1	89.4	93.4	89.6	83.9	82.0	77.5	81.9	82.1	
G54.0	77.1	82.8	86.8	83.9	78.7	75.6	71.5	77.0	77.1	
G55.0	72.2	77.0	80.7	77.8	73.6	70.1	66.6	71.2	72.2	
G56.0	67.2	71.7	74.3	72.7	68.3	65.2	61.9	66.0	67.2	
G57.0	62.8	66.2	68.9	67.8	63.8	60.7	57.6	61.0	62.8	
G58.0	58.7	61.6	64.1	62.7	59.6	56.1	53.0	56.2	58.7	
G59.0	54.9	57.4	59.6	58.5	55.4	52.3	49.3	51.8	54.9	
G60.0	51.0	53.2	55.1	54.6	51.8	48.9	45.9	48.5	51.0	
G61.0	47.7	49.7	51.4	50.6	48.5	45.8	42.9	45.4	47.7	
G62.0	44.6	46.5	48.1	47.3	45.4	42.7	40.1	42.3	44.6	
G63.0	41.6	43.6	44.8	44.3	42.3	40.2	37.8	39.8	41.6	
G64.0	39.0	40.6	42.0	41.3	39.8	37.6	35.4	37.1	39.0	
G65.0	36.6	38.2	39.4	38.7	37.2	35.4	33.3	34.9	36.6	
G66.0	34.4	35.9	36.9	36.3	35.0	33.2	31.4	32.9	34.4	
G67.0	32.2	33.7	34.5	34.2	32.9	31.2	29.6	30.7	32.2	
G68.0	30.3	31.6	32.4	31.9	30.8	29.4	27.8	28.9	30.3	
G69.0	28.6	29.7	30.3	29.9	29.0	27.5	26.2	27.2	28.6	
G70.0	26.8	27.8	28.4	28.1	27.3	26.0	24.7	25.5	26.8	
G71.0	25.2	26.1	26.7	26.3	25.8	24.5	23.1	24.0	25.2	
G72.0	23.7	24.5	24.8	24.7	24.1	23.0	21.8	22.5	23.7	
G73.0	22.2	23.0	23.3	23.1	22.7	21.5	20.5	21.2	22.2	

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:

HAVIT COMMERCIAL
http://www.havitcommercial.com.au
Tel: 02 9381 8383
E-mail:sales@havitcommercial.com.au

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	20.9	21.4	21.8	21.7	21.3	20.2	19.1	19.9	20.9	
G75.0	19.7	20.1	20.4	20.2	19.9	18.9	17.8	18.5	19.7	
G76.0	18.5	18.8	18.9	18.9	18.6	17.5	16.5	17.3	18.5	
G77.0	17.2	17.5	17.5	17.6	17.3	16.2	14.9	16.0	17.2	
G78.0	16.0	16.0	16.1	16.1	15.9	14.9	13.4	14.5	16.0	
G79.0	14.7	14.8	14.7	14.8	14.6	13.1	11.6	13.2	14.7	
G80.0	13.4	13.4	13.1	13.3	13.1	11.2	9.7	11.5	13.4	
G81.0	11.9	11.6	11.3	11.5	11.4	9.1	7.6	9.6	11.9	
G82.0	10.3	9.8	9.5	9.4	9.3	6.9	5.9	7.3	10.3	
G83.0	8.4	7.8	7.4	7.3	7.3	5.1	4.6	5.4	8.4	
G84.0	6.4	5.5	5.8	5.2	5.1	4.1	3.7	4.4	6.4	
G85.0	4.6	4.2	4.4	4.1	3.4	3.4	2.5	3.8	4.6	
G86.0	3.4	3.5	3.6	3.5	2.8	2.1	1.2	2.4	3.4	
G87.0	2.7	2.7	2.7	2.6	2.0	0.6	0.4	0.9	2.7	
G88.0	1.7	1.4	1.6	1.2	1.0	0.2	0.2	0.3	1.7	
G89.0	0.7	0.4	0.8	0.4	0.1	0.1	0.0	0.1	0.7	
G90.0	0.0	0.3	0.4	0.2	0.0	0.1	0.0	0.1	0.0	
G91.0	0.0	0.1	0.2	0.1	0.0	0.0	0.0	0.1	0.0	
G92.0	0.0	0.1	0.2	0.1	0.0	0.1	0.0	0.1	0.0	
G93.0	0.0	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.0	
G94.0	0.0	0.1	0.2	0.1	0.0	0.1	0.1	0.1	0.0	
G95.0	0.0	0.1	0.2	0.1	0.0	0.0	0.0	0.1	0.0	
G96.0	0.0	0.1	0.2	0.2	0.0	0.1	0.1	0.1	0.0	
G97.0	0.0	0.1	0.2	0.2	0.0	0.1	0.1	0.1	0.0	
G98.0	0.0	0.2	0.2	0.2	0.0	0.1	0.1	0.1	0.0	
G99.0	0.1	0.2	0.2	0.2	0.0	0.1	0.1	0.1	0.1	
G100.0	0.1	0.2	0.2	0.2	0.0	0.1	0.1	0.1	0.1	
G101.0	0.1	0.2	0.2	0.2	0.0	0.1	0.1	0.1	0.1	
G102.0	0.1	0.2	0.2	0.2	0.0	0.1	0.1	0.1	0.1	
G103.0	0.1	0.2	0.3	0.3	0.0	0.1	0.2	0.1	0.1	
G104.0	0.1	0.2	0.3	0.3	0.0	0.1	0.2	0.1	0.1	
G105.0	0.1	0.2	0.3	0.3	0.0	0.2	0.2	0.1	0.1	
G106.0	0.1	0.3	0.3	0.3	0.0	0.2	0.2	0.1	0.1	
G107.0	0.2	0.3	0.3	0.3	0.0	0.2	0.2	0.1	0.2	
G108.0	0.2	0.4	0.4	0.3	0.0	0.2	0.2	0.2	0.2	
G109.0	0.3	0.4	0.4	0.3	0.0	0.2	0.3	0.3	0.3	
G110.0	0.3	0.4	0.4	0.4	0.0	0.2	0.3	0.3	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	0.3	0.4	0.4	0.4	0.0	0.2	0.3	0.3	0.3	
G112.0	0.3	0.4	0.4	0.4	0.0	0.3	0.3	0.3	0.3	
G113.0	0.3	0.5	0.4	0.5	0.0	0.3	0.3	0.3	0.3	
G114.0	0.4	0.5	0.5	0.5	0.0	0.3	0.3	0.4	0.4	
G115.0	0.4	0.5	0.6	0.5	0.0	0.3	0.3	0.4	0.4	
G116.0	0.4	0.5	0.6	0.6	0.0	0.4	0.3	0.4	0.4	
G117.0	0.5	0.6	0.6	0.6	0.0	0.4	0.4	0.4	0.5	
G118.0	0.5	0.6	0.6	0.6	0.1	0.4	0.4	0.4	0.5	
G119.0	0.5	0.6	0.7	0.6	0.1	0.4	0.4	0.4	0.5	
G120.0	0.6	0.6	0.7	0.6	0.1	0.4	0.4	0.4	0.6	
G121.0	0.6	0.7	0.8	0.7	0.2	0.4	0.5	0.5	0.6	
G122.0	0.6	0.7	0.8	0.7	0.2	0.4	0.5	0.5	0.6	
G123.0	0.6	0.8	0.8	0.7	0.2	0.5	0.5	0.5	0.6	
G124.0	0.7	0.8	0.8	0.8	0.2	0.5	0.5	0.6	0.7	
G125.0	0.7	0.8	0.8	0.8	0.2	0.5	0.6	0.6	0.7	
G126.0	0.7	0.9	0.9	0.8	0.3	0.6	0.6	0.6	0.7	
G127.0	0.8	0.9	0.9	0.9	0.3	0.6	0.6	0.6	0.8	
G128.0	0.8	1.0	0.9	0.9	0.3	0.6	0.6	0.6	0.8	
G129.0	0.8	1.0	1.0	0.9	0.3	0.6	0.6	0.7	0.8	
G130.0	0.9	1.0	1.0	1.0	0.3	0.6	0.6	0.7	0.9	
G131.0	0.9	1.0	1.0	1.0	0.4	0.6	0.6	0.7	0.9	
G132.0	0.9	1.0	1.1	1.1	0.4	0.7	0.7	0.7	0.9	
G133.0	0.9	1.1	1.1	1.1	0.4	0.7	0.8	0.8	0.9	
G134.0	1.0	1.1	1.1	1.1	0.4	0.7	0.8	0.8	1.0	
G135.0	1.0	1.1	1.2	1.1	0.4	0.7	0.8	0.8	1.0	
G136.0	1.0	1.2	1.2	1.1	0.5	0.8	0.8	0.8	1.0	
G137.0	1.1	1.2	1.2	1.2	0.5	0.8	0.9	0.9	1.1	
G138.0	1.1	1.2	1.3	1.2	0.5	0.8	0.9	0.9	1.1	
G139.0	1.1	1.3	1.3	1.2	0.6	0.9	0.9	0.9	1.1	
G140.0	1.2	1.3	1.3	1.3	0.6	0.9	0.9	0.9	1.2	
G141.0	1.2	1.4	1.3	1.3	0.6	0.9	0.9	1.0	1.2	
G142.0	1.3	1.4	1.4	1.3	0.6	0.9	0.9	1.0	1.3	
G143.0	1.3	1.4	1.4	1.4	0.6	0.9	1.0	1.0	1.3	
G144.0	1.3	1.4	1.4	1.4	0.7	1.0	1.0	1.0	1.3	
G145.0	1.3	1.4	1.5	1.4	0.7	1.0	1.0	1.0	1.3	
G146.0	1.3	1.5	1.5	1.4	0.7	1.1	1.0	1.1	1.3	
G147.0	1.3	1.5	1.5	1.4	0.8	1.0	1.1	1.1	1.3	

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:

HAVIT COMMERCIAL
http://www.havitcommercial.com.au
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E-mail:sales@havitcommercial.com.au

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	1.4	1.5	1.5	1.5	0.8	1.1	1.1	1.1	1.4	
G149.0	1.4	1.5	1.6	1.5	0.8	1.1	1.1	1.2	1.4	
G150.0	1.4	1.5	1.6	1.5	0.8	1.1	1.2	1.2	1.4	
G151.0	1.5	1.6	1.6	1.5	0.9	1.1	1.2	1.3	1.5	
G152.0	1.5	1.6	1.6	1.5	0.9	1.2	1.2	1.3	1.5	
G153.0	1.5	1.6	1.6	1.6	0.9	1.2	1.3	1.3	1.5	
G154.0	1.5	1.6	1.6	1.6	0.9	1.3	1.3	1.4	1.5	
G155.0	1.6	1.6	1.7	1.6	0.9	1.3	1.3	1.4	1.6	
G156.0	1.5	1.6	1.6	1.6	1.0	1.3	1.3	1.4	1.5	
G157.0	1.6	1.6	1.7	1.7	1.0	1.2	1.4	1.4	1.6	
G158.0	1.6	1.7	1.7	1.7	1.0	1.3	1.4	1.4	1.6	
G159.0	1.6	1.7	1.8	1.7	1.1	1.4	1.5	1.5	1.6	
G160.0	1.6	1.7	1.8	1.7	1.1	1.4	1.5	1.5	1.6	
G161.0	1.6	1.7	1.8	1.7	1.1	1.4	1.5	1.5	1.6	
G162.0	1.6	1.8	1.8	1.8	1.2	1.4	1.5	1.6	1.6	
G163.0	1.6	1.8	1.8	1.8	1.2	1.5	1.6	1.6	1.6	
G164.0	1.6	1.8	1.9	1.8	1.2	1.5	1.6	1.6	1.6	
G165.0	1.7	1.8	1.8	1.8	1.2	1.6	1.7	1.7	1.7	
G166.0	1.7	1.8	1.9	1.8	1.3	1.6	1.7	1.7	1.7	
G167.0	1.7	1.8	1.8	1.8	1.4	1.6	1.7	1.7	1.7	
G168.0	1.7	1.9	1.9	1.8	1.4	1.6	1.8	1.8	1.7	
G169.0	1.7	1.8	1.9	1.9	1.4	1.7	1.8	1.8	1.7	
G170.0	1.7	1.9	1.9	1.9	1.4	1.7	1.8	1.8	1.7	
G171.0	1.7	1.9	1.9	1.9	1.4	1.7	1.8	1.8	1.7	
G172.0	1.7	1.9	1.9	1.9	1.5	1.7	1.8	1.9	1.7	
G173.0	1.8	1.9	1.9	1.9	1.5	1.7	1.9	1.9	1.8	
G174.0	1.8	1.9	1.9	1.9	1.5	1.8	1.9	1.9	1.8	
G175.0	1.8	1.9	1.9	1.9	1.5	1.8	1.9	1.9	1.8	
G176.0	1.8	1.9	1.9	1.9	1.5	1.8	1.9	1.9	1.8	
G177.0	1.8	1.9	1.9	1.9	1.6	1.8	1.9	1.9	1.8	
G178.0	1.8	1.9	1.9	1.9	1.5	1.8	1.9	1.9	1.8	
G179.0	1.8	1.9	1.9	1.9	1.6	1.8	1.9	2.0	1.8	
G180.0	1.8	1.9	1.9	1.9	1.6	1.8	1.9	1.9	1.8	

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: