

IES Flood Report

Photometric Filename:HV2860W.IES

Page 1 of 8 Pages

Report No.: 001

Test Time: 2020-07-15 15:48

Luminaire Property

Luminaire Manufacturer: Havit Lighting
 Luminaire Category: Outdoor lighting
 Lamp Catalog: COB
 Luminous Width (mm): -25
 Voltage: 12.2V
 Power: 3.23W

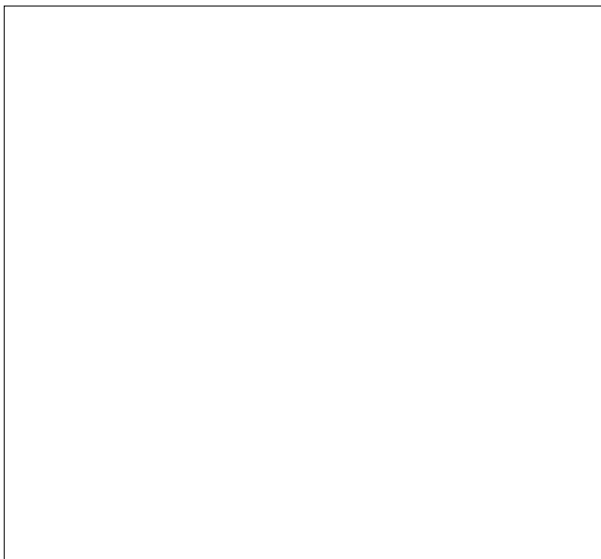
Luminaire Description: HV2860W
 Luminous Length (mm): -25
 Luminous Height (mm): 0
 Current: 0.265A
 Power Factor: 0.000

Photometric Results

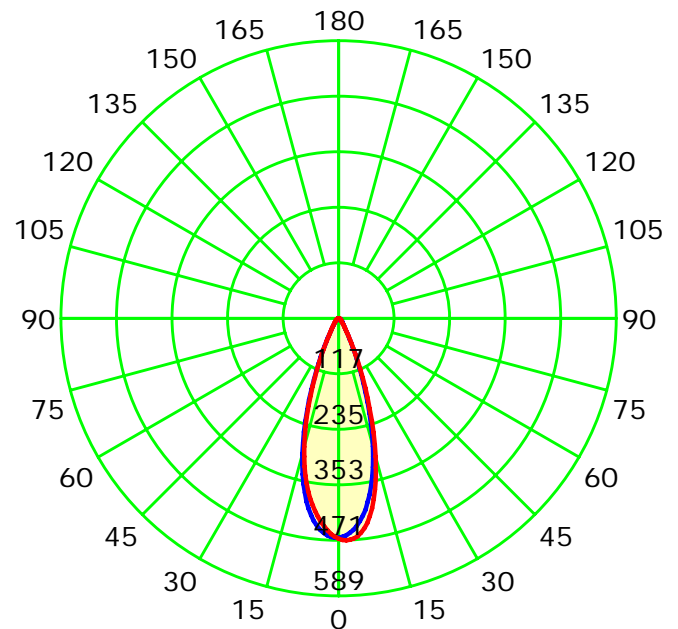
CIE Class: Direct
 Measurement Flux: 189.9 lm
 Downward Ratio: 100%
 Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 57.6, 57.4, 57.2, 57.9
 Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 35.0, 35.0, 34.7, 35.0
 Luminaire Efficacy Rating (LER): 58.85
 Max. Intensity: 471.53 cd
 S/MH(C0/C180): 0.58

Total Rated Lamp Lumens: 189.9 lm
 Efficiency: 100%
 Upward Ratio: 0%
 Central Intensity: 465.87 cd
 Pos of Max. Intensity: H90 V2
 S/MH(C90/C270): 0.58

Picture Of Luminaire



Luminous Intensity Distribution Curve



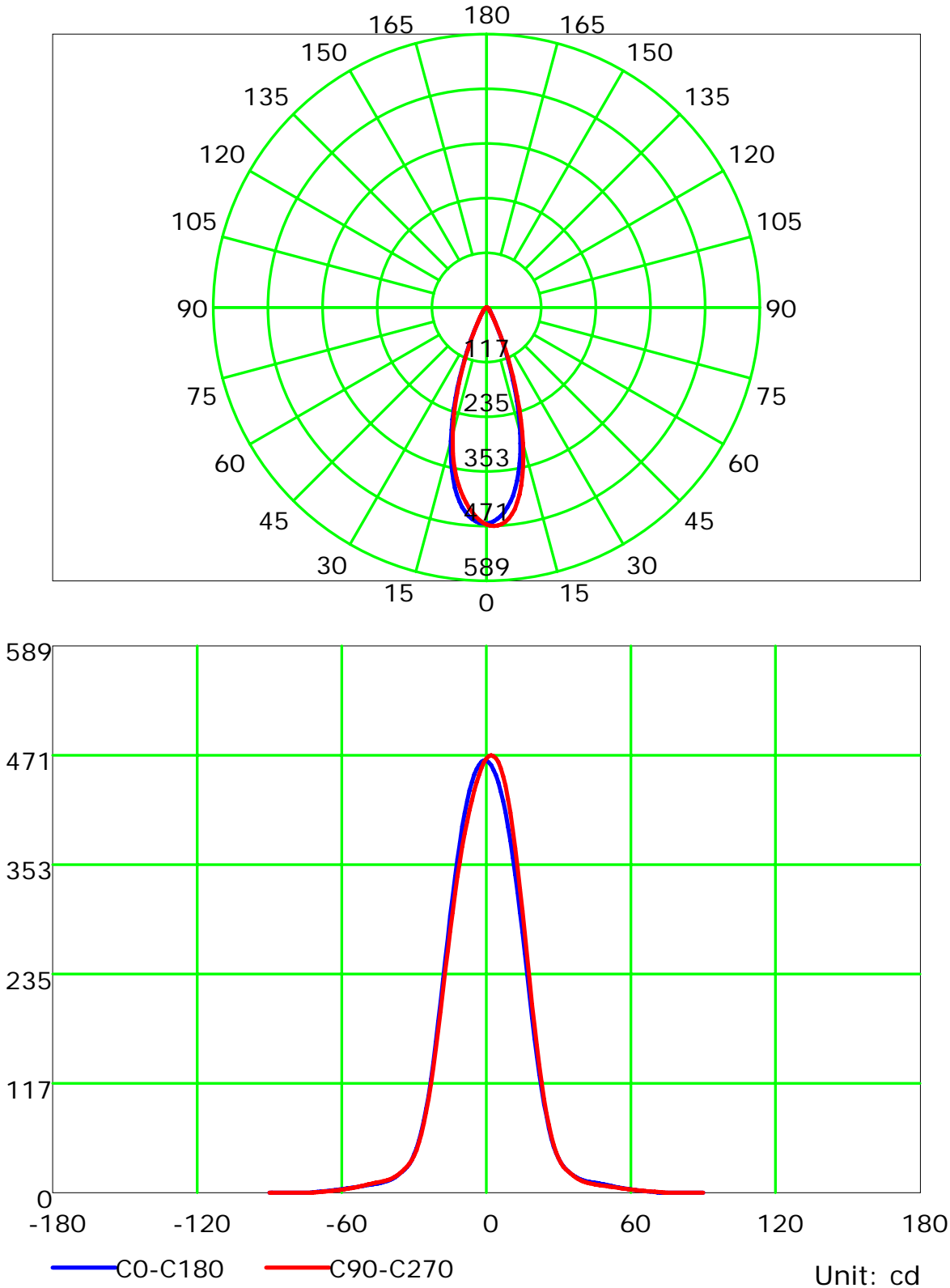
Unit: cd

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 45.0
 Test Lab: HAVIT LIGHTING
 Test Type: TYPE C
 Temperature: 25°C
 Operator: DING LI

Gamma Plane (°):0.0-90.0: 1.0
 Test Device: GPM-1600L
 Distance: 6.583 m
 Humidity:
 Inspector:

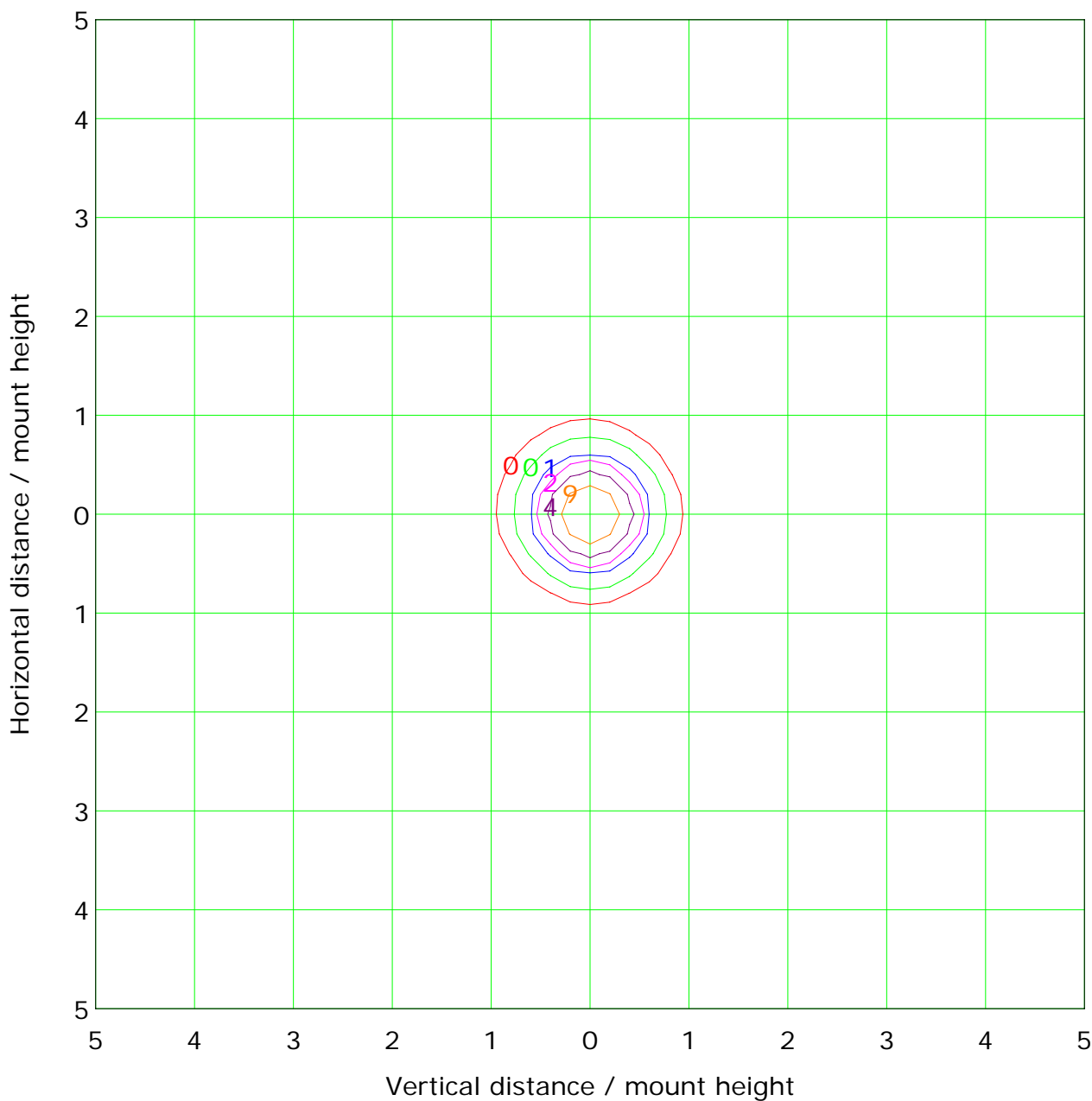
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 45.0
 Test Lab: HAVIT LIGHTING
 Test Type: TYPE C
 Temperature: 25°C
 Operator: DING LI

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.583 m
 Humidity:
 Inspector:

IsoLux Plot



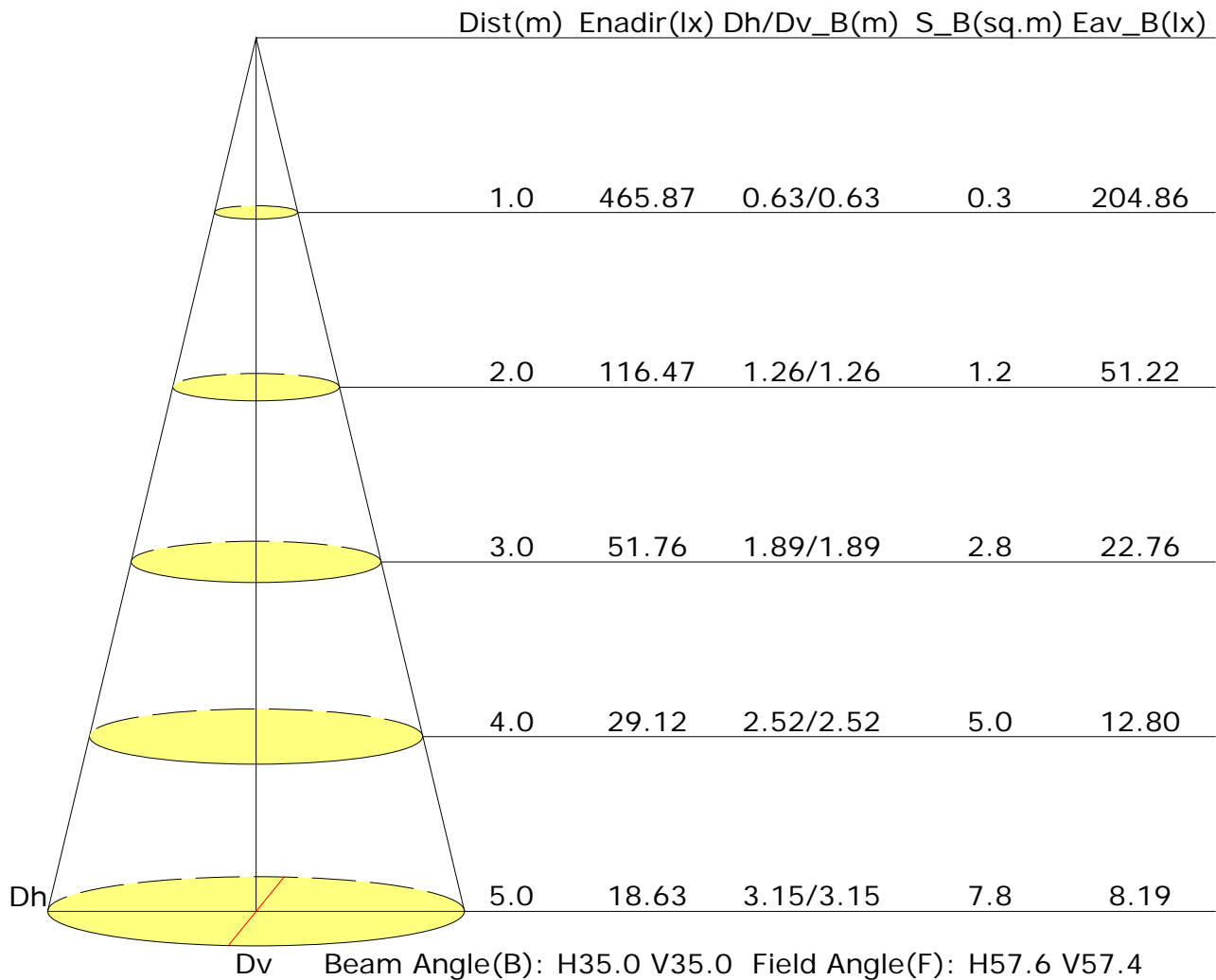
Mounting Height: 5.0m Max Lux(100%): 18.8 lx

(1%): 0.2 lx	(2%): 0.4 lx
(5%): 0.9 lx	(10%): 1.9 lx
(20%): 3.8 lx	(50%): 9.4 lx
(100%): 18.8 lx	

C Plane (°):0.0-360.0: 45.0
 Test Lab: HAVIT LIGHTING
 Test Type: TYPE C
 Temperature: 25°C
 Operator: DING LI

Gamma Plane (°):0.0-90.0: 1.0
 Test Device: GPM-1600L
 Distance: 6.583 m
 Humidity:
 Inspector:

Illuminance at a Distance



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	17.9	18.6	18.1	18.8	19.0	17.8	18.5	18.0	18.7	18.9
3H	18.0	18.6	18.2	18.9	19.1	17.9	18.6	18.2	18.8	19.0
4H	17.9	18.5	18.2	18.8	19.0	17.8	18.5	18.1	18.7	19.0
6H	17.8	18.4	18.1	18.7	19.0	17.7	18.3	18.1	18.6	18.9
8H	17.8	18.3	18.1	18.6	18.9	17.7	18.3	18.0	18.6	18.9
12H	17.7	18.3	18.1	18.6	18.9	17.7	18.2	18.0	18.5	18.8
X=4H Y=2H	18.0	18.6	18.3	18.9	19.1	17.9	18.5	18.2	18.8	19.1
3H	18.1	18.6	18.4	18.9	19.3	18.0	18.6	18.4	18.9	19.2
4H	18.0	18.5	18.4	18.8	19.2	18.0	18.4	18.3	18.8	19.1
6H	17.9	18.4	18.3	18.7	19.1	17.9	18.3	18.3	18.7	19.1
8H	17.9	18.3	18.3	18.7	19.1	17.8	18.2	18.2	18.6	19.0
12H	17.8	18.2	18.3	18.6	19.0	17.8	18.1	18.2	18.5	19.0
X=8H Y=4H	17.9	18.3	18.3	18.7	19.1	17.8	18.2	18.3	18.6	19.0
6H	17.8	18.1	18.2	18.5	19.0	17.7	18.1	18.2	18.5	18.9
8H	17.7	18.0	18.2	18.5	18.9	17.7	18.0	18.2	18.4	18.9
12H	17.7	17.9	18.2	18.4	18.9	17.6	17.9	18.1	18.4	18.9
X=12H Y=4H	17.8	18.2	18.3	18.6	19.0	17.8	18.1	18.2	18.5	19.0
6H	17.7	18.0	18.2	18.5	18.9	17.7	18.0	18.2	18.4	18.9
8H	17.7	17.9	18.2	18.4	18.9	17.6	17.9	18.1	18.4	18.9
Variations with the observer position at spacings:										
S=1.0H	+1.3/-1.5					+1.7/-1.7				
S=1.5H	+2.9/-3.3					+3.3/-4.0				
S=2.0H	+4.6/-6.2					+5.0/-7.1				

Calculate in accordance with CIE Pub.117. The table is revised with 190lm ($8\log(F/F_0) = -5.8$).

C Plane (°):0.0-360.0: 45.0
 Test Lab: HAVIT LIGHTING
 Test Type: TYPE C
 Temperature: 25°C
 Operator: DING LI

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.583 m
 Humidity:
 Inspector:

Candlepower Table

Unit: cd

GVC	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G0.0	465.9	467.6	468.0	468.4	465.9	467.6	468.0	468.4	465.9	
G1.0	464.1	468.7	470.7	469.3	466.0	464.8	464.1	465.2	464.1	
G2.0	461.1	468.1	471.5	469.2	464.6	461.0	458.3	461.0	461.1	
G3.0	456.0	466.0	470.7	467.1	461.5	455.0	451.0	454.3	456.0	
G4.0	450.2	462.0	468.4	463.5	457.0	447.9	442.9	447.0	450.2	
G5.0	442.5	456.1	464.3	458.7	450.9	440.1	433.9	439.1	442.5	
G6.0	432.8	447.7	457.7	450.6	442.6	430.1	423.0	429.3	432.8	
G7.0	422.2	438.3	449.0	440.7	433.8	419.8	412.5	419.8	422.2	
G8.0	410.4	425.5	439.0	428.3	422.2	408.3	400.1	408.6	410.4	
G9.0	394.8	411.4	424.5	414.8	409.2	393.9	387.5	395.8	394.8	
G10.0	379.6	396.3	409.8	398.4	395.1	380.3	373.5	381.8	379.6	
G11.0	361.8	377.8	391.1	379.4	376.9	362.9	357.3	365.8	361.8	
G12.0	343.2	358.0	371.3	359.9	359.7	346.4	341.3	348.8	343.2	
G13.0	324.3	337.7	350.9	338.2	340.3	327.9	322.9	331.7	324.3	
G14.0	302.2	314.5	326.9	314.4	318.9	307.3	302.4	311.4	302.2	
G15.0	281.4	292.6	303.9	291.8	298.6	287.2	282.4	291.3	281.4	
G16.0	259.1	265.9	279.5	266.7	274.2	265.3	261.0	271.7	259.1	
G17.0	235.5	242.1	253.4	242.0	252.3	242.2	240.9	248.9	235.5	
G18.0	212.6	217.8	229.3	218.8	229.4	220.7	219.2	227.9	212.6	
G19.0	188.9	192.8	202.3	193.2	205.5	196.9	196.2	204.7	188.9	
G20.0	166.6	171.2	180.3	172.2	183.9	174.8	174.8	182.6	166.6	
G21.0	147.6	148.0	158.6	150.2	162.0	153.6	154.9	162.7	147.6	
G22.0	127.9	128.6	137.0	130.0	140.1	133.3	134.9	141.6	127.9	
G23.0	111.9	111.2	118.8	113.2	122.0	115.6	117.5	124.4	111.9	
G24.0	95.3	93.4	100.3	96.7	103.9	100.4	100.9	108.0	95.3	
G25.0	82.9	79.3	85.0	83.0	90.1	84.6	87.2	92.6	82.9	
G26.0	69.6	67.5	73.1	70.8	77.3	73.2	74.7	80.1	69.6	
G27.0	58.4	56.7	61.0	59.3	65.7	62.3	63.0	67.3	58.4	
G28.0	49.8	48.5	51.6	50.8	56.2	53.9	54.4	57.9	49.8	
G29.0	42.8	41.6	43.5	43.1	47.8	46.8	45.9	49.5	42.8	
G30.0	37.0	35.9	36.9	37.4	41.2	40.3	39.9	42.1	37.0	
G31.0	32.3	31.5	32.1	32.8	35.2	35.2	35.1	37.2	32.3	
G32.0	28.5	27.4	27.9	28.7	30.7	31.1	31.2	32.7	28.5	
G33.0	25.6	24.5	25.3	25.9	27.7	27.8	28.1	29.6	25.6	
G34.0	23.1	22.1	23.0	23.1	24.9	25.4	25.6	26.6	23.1	
G35.0	20.9	20.1	20.9	20.9	22.5	22.7	22.9	23.8	20.9	
G36.0	18.9	18.2	18.7	18.8	20.5	20.8	20.9	21.6	18.9	

C Plane (°):0.0-360.0: 45.0

Test Lab: HAVIT LIGHTING

Test Type: TYPE C

Temperature: 25°C

Operator: DING LI

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1600L

Distance: 6.583 m

Humidity:

Inspector:

Candlepower Table (Continue 1)

Unit: cd

GVC	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G37.0	17.2	16.4	16.7	16.9	18.4	18.7	18.8	19.7	17.2	
G38.0	15.8	15.0	15.0	15.3	16.5	16.9	17.2	17.9	15.8	
G39.0	14.6	14.0	13.6	14.0	15.0	15.3	15.8	16.5	14.6	
G40.0	13.6	12.8	12.4	13.1	13.7	13.9	14.4	15.1	13.6	
G41.0	12.8	12.0	11.5	12.1	12.8	12.9	13.7	14.1	12.8	
G42.0	12.1	11.2	10.7	11.4	12.1	12.0	13.0	13.4	12.1	
G43.0	11.7	10.5	10.1	10.7	11.3	11.3	12.3	12.7	11.7	
G44.0	11.3	10.0	9.6	10.2	10.6	10.6	11.8	12.2	11.3	
G45.0	10.9	9.4	9.1	9.7	10.0	10.1	11.3	11.6	10.9	
G46.0	10.5	9.0	8.6	9.3	9.6	9.4	10.8	11.2	10.5	
G47.0	9.9	8.6	8.2	8.8	9.1	9.0	10.3	10.8	9.9	
G48.0	9.5	8.3	7.8	8.4	8.7	8.5	9.6	10.2	9.5	
G49.0	9.0	8.0	7.5	8.0	8.4	8.0	9.1	9.7	9.0	
G50.0	8.5	7.6	7.2	7.6	8.0	7.7	8.4	9.1	8.5	
G51.0	7.8	7.2	6.7	7.2	7.5	7.2	7.8	8.4	7.8	
G52.0	7.3	6.8	6.4	6.8	7.0	6.8	7.2	7.9	7.3	
G53.0	6.7	6.4	6.0	6.4	6.6	6.4	6.6	7.3	6.7	
G54.0	6.1	6.0	5.6	6.1	6.1	6.0	5.9	6.8	6.1	
G55.0	5.6	5.6	5.2	5.5	5.7	5.6	5.5	6.2	5.6	
G56.0	5.2	5.1	4.8	5.3	5.3	5.2	5.0	5.7	5.2	
G57.0	4.7	4.7	4.4	4.9	5.0	4.8	4.7	5.2	4.7	
G58.0	4.4	4.4	4.3	4.6	4.6	4.6	4.2	4.8	4.4	
G59.0	3.9	4.0	3.8	4.3	4.3	4.1	3.8	4.4	3.9	
G60.0	3.7	3.6	3.5	3.8	3.9	3.8	3.4	3.9	3.7	
G61.0	3.2	3.3	3.3	3.6	3.6	3.4	3.0	3.5	3.2	
G62.0	3.0	2.9	2.8	3.1	3.2	3.0	2.7	3.2	3.0	
G63.0	2.5	2.5	2.6	2.8	2.8	2.8	2.4	2.9	2.5	
G64.0	2.2	2.2	2.4	2.6	2.6	2.5	2.0	2.5	2.2	
G65.0	2.0	2.0	2.2	2.2	2.3	2.1	1.9	2.3	2.0	
G66.0	1.8	1.6	1.9	1.8	1.9	1.8	1.6	1.9	1.8	
G67.0	1.5	1.5	1.7	1.6	1.7	1.5	1.3	1.7	1.5	
G68.0	1.4	1.1	1.5	1.3	1.5	1.2	1.1	1.4	1.4	
G69.0	1.0	0.9	1.3	1.0	1.2	1.0	0.9	1.1	1.0	
G70.0	0.8	0.7	1.1	0.9	1.0	0.8	0.6	0.9	0.8	
G71.0	0.4	0.5	0.9	0.6	0.7	0.6	0.5	0.6	0.4	
G72.0	0.2	0.2	0.7	0.4	0.5	0.3	0.2	0.3	0.2	
G73.0	0.1	0.0	0.6	0.2	0.1	0.1	0.0	0.0	0.1	

C Plane (°):0.0-360.0: 45.0
 Test Lab: HAVIT LIGHTING
 Test Type: TYPE C
 Temperature: 25°C
 Operator: DING LI

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.583 m
 Humidity:
 Inspector:

Candlepower Table (Continue 2)

Unit: cd

[illegible]

C Plane (°):0.0-360.0: 45.0
Test Lab: HAVIT LIGHTING
Test Type: TYPE C
Temperature: 25°C
Operator: DING LI

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 6.583 m
Humidity:
Inspector: