

LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: INVUE

Report Number: P574410

Luminaire Tested: **CCW-VA-AMBER-U-T2**

Issue Date: 10/14/2021

Tested By:

Approved By:



NVLAP Lab Code: 200050-0

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Test Information

Test Method: LM-79-08
 Report Number: P574410
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 10/14/2021
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: INVUE
 Catalog Number: CCW-VA-AMBER-U-T2
 Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T2 DISTRIBUTION LENS
 Light Source: 1620 CCT, 0 CRI LEDS
 Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
 Luminaire Lumens: 831.9 lumens
 Efficiency: N/A
 Efficacy: 27.9 lumens/watt
 Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
 IES Classification: Type II - Short
 BUG Rating: B1 - U0 - G1

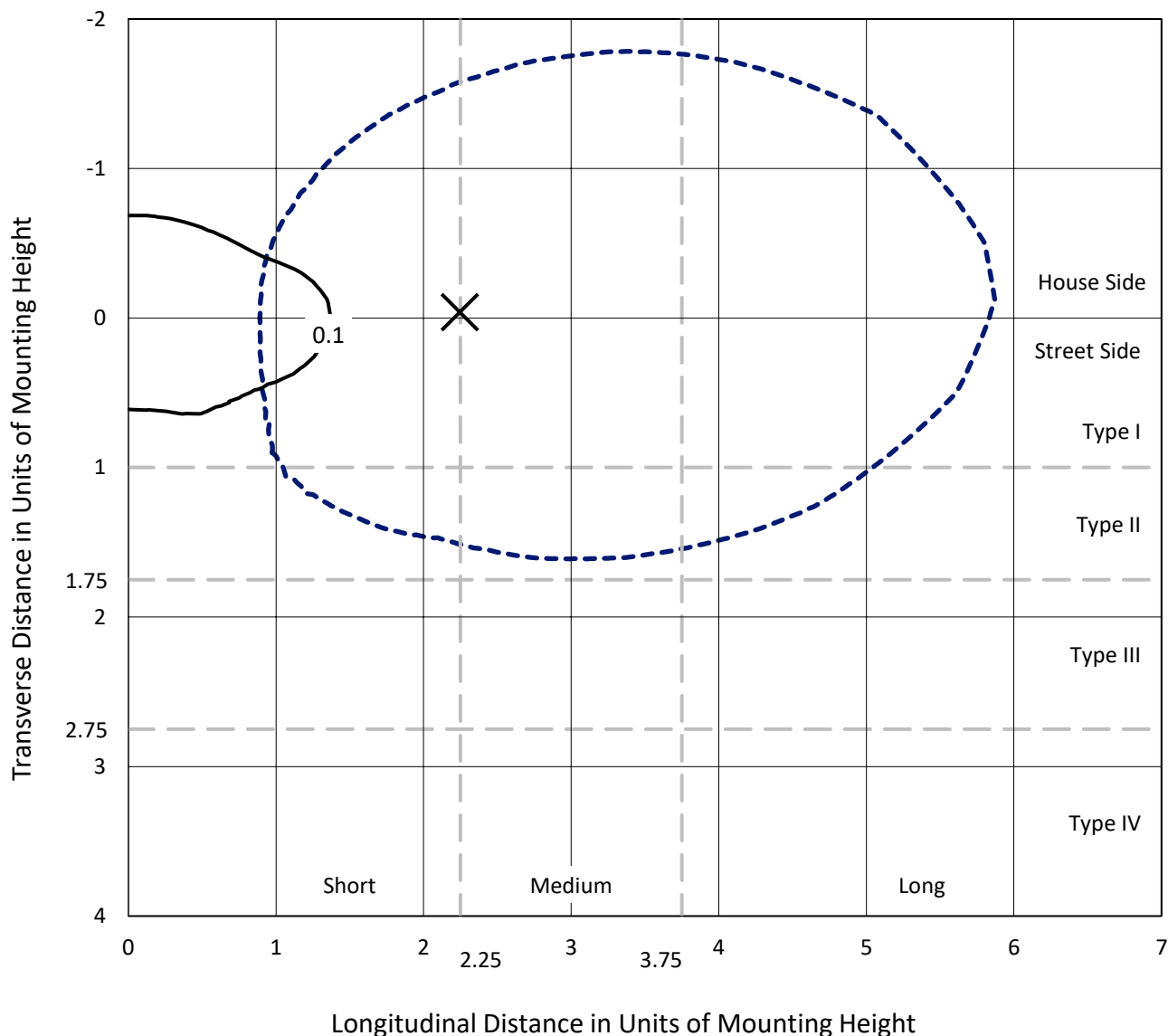
Input Watts (W): 29.8
 Input Voltage (V): 120
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 25 FT

Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	GONIO 1 IN0055	4/22/2021	10/22/2021
Power Meter	XITRON 2801 IN0197	12/1/2020	12/1/2021
AC Power Source	CHROMA 61505 IN0196	12/1/2020	12/1/2021
DC Power Supply	AGILENT E3634A IN0198	11/30/2020	11/30/2021

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Iso-Footcandle Lines of Horizontal Illumination

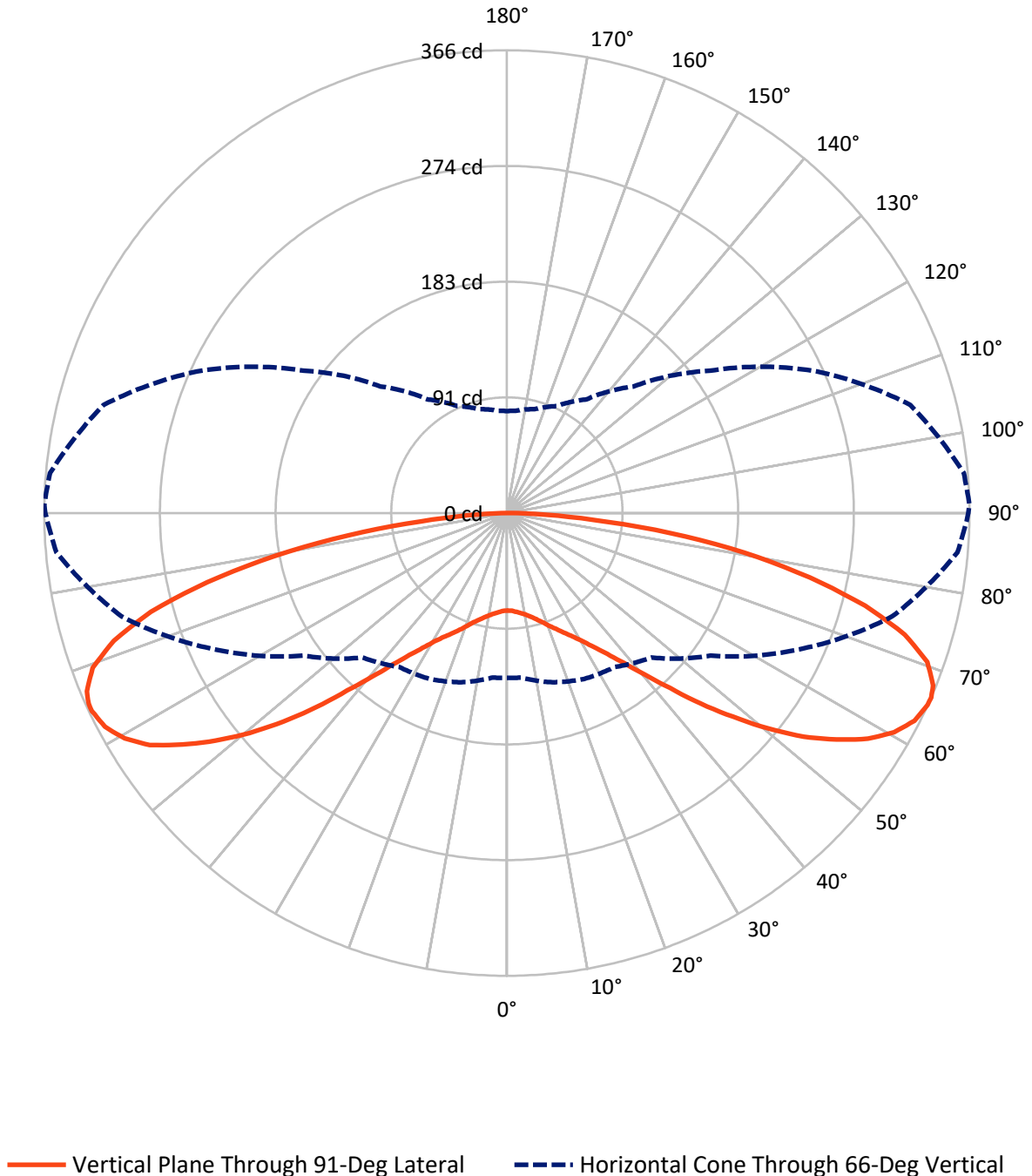
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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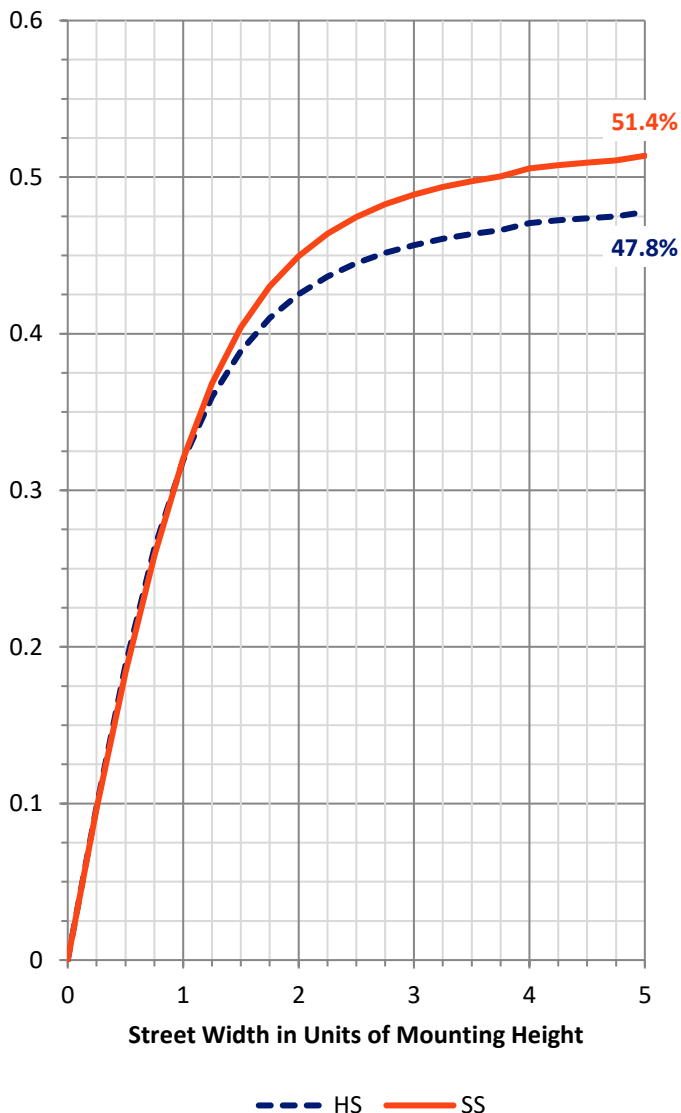
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	401.5	0.0	401.5
	% Fixture	48.3	0.0	48.3
Street Side	Lumens	430.4	0.0	430.4
	% Fixture	51.7	0.0	51.7
Total	Lumens	831.9	0.0	831.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.6	0.9
10°-20°	24.8	3.0
20°-30°	48.0	5.8
30°-40°	78.8	9.5
40°-50°	124.8	15.0
50°-60°	172.1	20.7
60°-70°	193.3	23.2
70°-80°	144.4	17.4
80°-90°	38.0	4.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	831.9	100.0
0°-180°	831.9	100.0



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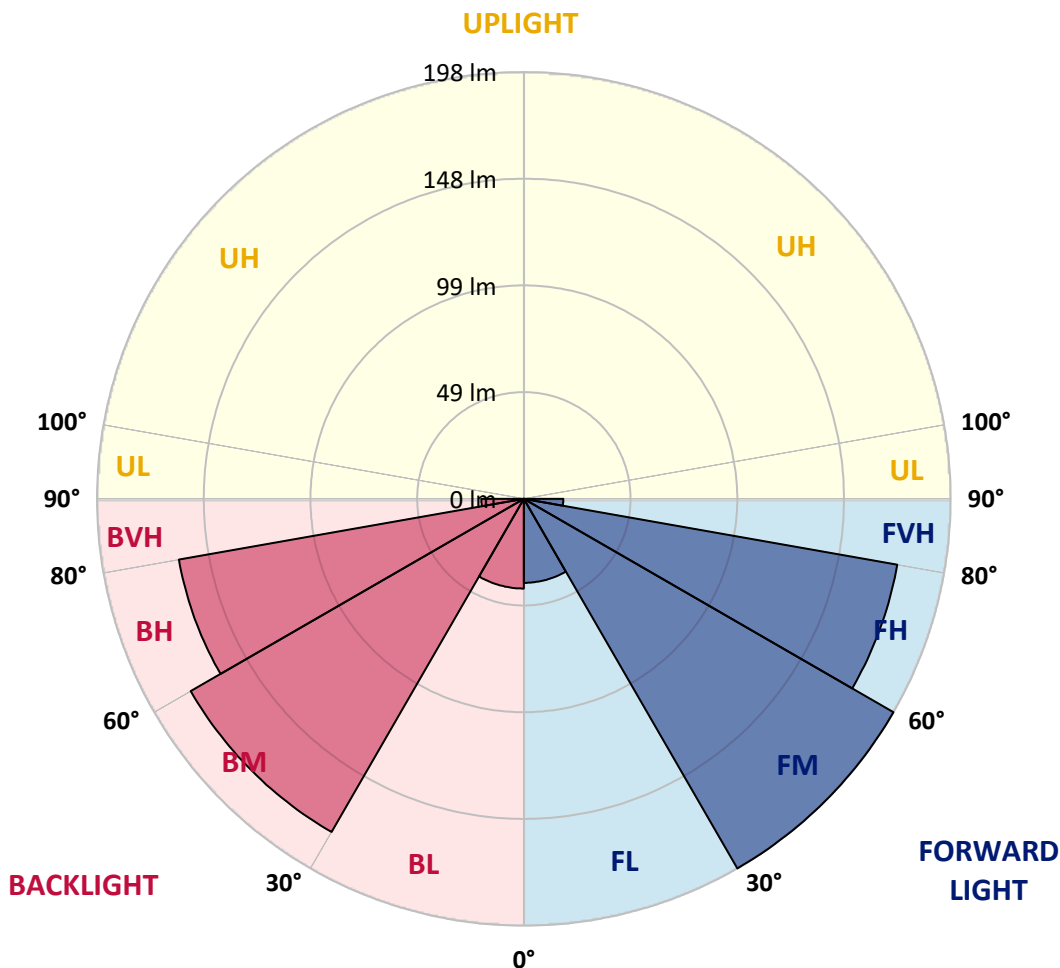
CATALOG NUMBER: CCW-VA-AMBER-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	38.9	4.7			
FM (30°-60°)	197.6	23.8			
FH (60°-80°)	175.6	21.1			G0/660
FVH (80°-90°)	18.3	2.2			G1/100
BL (0°-30°)	41.6	5.0	B0/110		
BM (30°-60°)	178.1	21.4	B0/220		
BH (60°-80°)	162.2	19.5	B1/500		G1/500
BVH (80°-90°)	19.7	2.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
2.5°	77.4	77.4	77.4	77.4	77.7	77.7	77.7	77.7	77.7	77.4	77.4
5°	78.0	78.0	78.0	78.0	78.3	78.3	78.3	78.3	78.6	78.6	78.6
7.5°	78.6	78.6	78.8	78.8	79.1	79.1	79.4	79.4	79.7	80.0	80.0
10°	79.7	79.7	80.0	80.0	80.6	80.9	81.2	81.2	81.8	81.8	81.8
12.5°	81.2	81.5	81.8	82.1	82.7	82.9	83.3	83.6	83.9	84.2	84.2
15°	83.6	83.3	83.9	84.4	84.7	85.3	85.6	85.9	86.5	87.1	87.1
17.5°	85.3	85.6	85.9	86.5	87.1	88.0	88.6	89.1	89.7	90.3	90.3
20°	87.7	87.4	88.6	89.4	90.0	91.2	92.1	93.3	93.9	94.4	94.7
22.5°	89.7	90.0	90.6	91.8	93.0	94.7	96.5	97.4	98.3	98.8	99.7
25°	92.4	92.7	93.6	94.7	96.5	98.6	100.6	101.8	102.7	103.9	104.7
27.5°	95.0	95.0	96.5	98.3	100.3	103.0	105.3	106.5	108.0	109.4	110.0
30°	98.0	98.0	99.4	101.8	104.7	107.7	109.7	112.1	114.2	115.6	116.8
32.5°	102.4	102.4	104.2	106.5	109.7	113.3	116.2	118.6	121.2	123.9	126.2
35°	107.4	107.7	110.0	113.0	116.8	121.2	123.9	127.1	130.0	134.5	136.8
37.5°	115.3	115.6	118.3	122.1	125.9	130.6	135.0	138.9	143.3	148.3	150.0
40°	127.1	128.0	130.6	132.4	135.9	139.4	145.9	152.4	160.0	166.8	168.0
42.5°	148.3	147.4	145.6	145.0	145.9	149.7	156.8	166.8	180.3	188.9	188.9
45°	156.5	156.5	156.8	156.2	155.6	158.3	166.5	182.4	201.5	213.3	215.6
47.5°	158.0	158.3	160.9	163.3	163.9	166.8	176.8	197.7	223.3	240.7	242.1
50°	158.0	158.6	162.1	166.2	169.2	173.3	185.6	211.2	244.8	264.8	268.6
52.5°	157.4	158.0	161.8	166.8	171.5	177.4	193.3	225.4	263.9	291.0	292.7
55°	155.9	156.5	161.2	166.5	171.8	179.7	199.5	237.4	282.4	312.7	316.0
57.5°	154.2	155.0	160.0	165.6	170.6	180.3	203.6	246.8	297.4	332.2	338.1
60°	150.6	152.1	157.7	163.3	168.0	178.3	205.6	254.2	308.6	346.3	352.2
62.5°	143.6	145.0	151.2	157.4	162.1	173.3	204.5	257.7	315.1	355.1	361.3
65°	134.8	135.3	142.1	148.6	153.3	165.1	199.5	257.1	316.5	358.1	365.1
66°	130.3	130.6	138.6	144.8	148.6	161.5	196.5	255.1	315.7	357.8	365.1
67.5°	122.4	123.9	130.6	137.1	141.5	153.6	189.5	250.4	312.2	354.8	362.5
70°	108.6	109.7	115.3	121.8	126.5	138.0	174.2	236.5	299.2	342.7	351.6
72.5°	93.6	94.4	100.3	105.0	108.0	120.3	155.6	213.9	276.5	320.1	328.6
75°	77.7	78.3	83.6	86.8	89.4	100.3	130.9	184.8	241.0	283.3	294.5
77.5°	61.2	61.5	65.9	68.8	68.8	78.3	103.9	149.7	197.7	236.8	245.1
80°	45.0	44.7	47.4	48.8	49.7	55.9	74.7	110.0	150.6	181.2	189.2
82.5°	29.4	29.1	30.9	31.5	31.5	35.3	47.1	69.7	98.8	123.0	127.7
85°	15.6	16.2	15.9	15.9	15.9	17.4	23.5	36.5	52.6	65.9	69.1
87.5°	2.6	2.6	2.6	2.9	3.5	4.7	6.2	10.3	15.0	20.3	22.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	91°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
2.5°	77.4	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
5°	78.6	78.6	78.6	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8
7.5°	80.0	80.0	80.3	80.3	80.3	80.6	80.6	80.3	80.3	80.3	80.3
10°	81.8	81.8	82.1	82.4	82.4	82.7	82.7	82.4	82.4	82.1	82.1
12.5°	84.2	84.4	84.7	85.0	85.3	85.3	85.0	84.7	84.4	84.2	84.2
15°	87.1	87.4	87.7	88.3	88.3	88.3	88.0	87.7	87.1	86.8	87.1
17.5°	90.6	90.9	91.5	91.8	92.1	91.8	91.8	91.5	91.5	91.2	91.2
20°	95.0	95.3	96.2	96.5	96.5	96.8	97.7	98.3	99.1	99.4	99.4
22.5°	99.4	100.0	100.9	102.1	102.7	103.9	104.2	104.7	104.5	103.6	103.6
25°	104.7	105.3	107.1	108.6	109.7	110.3	109.7	108.9	107.4	106.2	105.9
27.5°	110.3	111.2	113.9	115.9	116.5	115.9	113.6	111.5	109.7	108.3	107.7
30°	117.4	118.9	121.8	123.0	122.7	120.3	116.8	114.2	111.5	109.7	109.4
32.5°	126.2	127.7	130.3	130.6	128.9	124.5	119.7	116.2	113.0	110.9	110.6
35°	136.8	138.3	139.7	138.9	133.9	128.3	122.4	117.4	114.2	111.8	111.8
37.5°	150.3	151.2	151.2	146.8	139.1	131.8	124.5	118.6	115.0	112.7	112.4
40°	168.0	167.7	163.6	155.0	145.0	135.0	125.9	119.7	115.3	113.0	112.7
42.5°	189.2	187.1	178.3	164.5	150.6	138.0	127.7	120.0	115.0	112.7	112.4
45°	215.1	211.5	195.6	175.3	156.5	140.6	128.6	119.7	114.2	111.5	111.2
47.5°	240.7	238.6	216.8	186.8	162.4	143.6	129.1	118.9	112.4	108.6	108.6
50°	267.7	262.7	238.0	200.7	168.6	145.6	129.1	117.4	109.4	105.3	104.7
52.5°	293.9	288.9	259.5	214.5	175.3	147.7	128.6	115.3	106.8	102.4	101.8
55°	316.3	312.2	280.4	230.1	182.4	149.2	127.7	113.0	104.2	100.0	99.4
57.5°	336.8	332.7	298.6	243.3	189.2	150.0	125.6	110.0	100.9	96.8	96.5
60°	351.9	348.6	314.2	255.7	194.8	150.0	122.7	106.5	97.4	93.3	93.0
62.5°	361.9	358.6	325.4	263.9	198.3	148.0	118.3	101.8	93.0	89.1	88.3
65°	365.7	362.7	330.4	267.1	197.7	143.9	112.4	95.9	87.4	83.6	82.9
66°	366.0	362.7	330.4	266.5	196.2	141.5	109.7	93.3	85.0	81.2	80.6
67.5°	363.6	360.7	328.3	263.6	192.1	137.1	104.5	88.8	80.6	76.8	76.5
70°	352.7	350.4	317.1	252.4	182.4	127.4	95.6	80.3	72.4	69.7	68.8
72.5°	329.2	326.6	294.8	231.5	166.5	114.2	84.4	70.3	63.9	60.6	60.3
75°	292.7	291.6	260.7	203.9	143.6	98.3	71.5	59.4	54.1	51.8	51.8
77.5°	245.1	242.7	216.5	168.6	118.0	79.4	57.4	48.3	44.1	42.1	42.4
80°	190.7	188.9	166.8	126.5	89.1	59.7	42.9	36.8	33.8	32.6	32.1
82.5°	130.6	125.9	111.2	83.9	58.0	40.3	29.7	25.6	24.1	23.8	23.5
85°	68.0	69.7	58.5	44.4	31.5	22.4	18.0	16.5	15.9	16.2	16.2
87.5°	22.4	22.9	17.7	13.5	10.3	7.9	6.8	6.5	5.6	6.2	6.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Report Generated By 670245763

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Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269



NVLAP Lab Code: 200050-0



Room Thermometer	ONSET IN0143	12/1/2020	12/1/2021
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