

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

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P637362

Luminaire Tested: **IFLD-M-SA4B-735-U-44-VI**

Issue Date: 01/17/2023

Tested By:

Approved By:



NVLAP Lab Code: 200050-0

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Test Information

Test Method: LM-79-08
 Report Number: P637362
 Test Lab: INNOVATION CENTER(G2)
 Issue Date: 01/17/2023
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-M-SA4B-735-U-44-VI
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
 Light Source: (64) 3500K CCT, 70 CRI LEDs
 Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
 Luminaire Lumens: 21726.5 lumens
 Efficiency: N/A
 Efficacy: 130.8 lumens/watt
 Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
 IES Classification: Type V - Short
 BUG Rating: B5 - U0 - G1

Input Watts (W): 166.1
 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

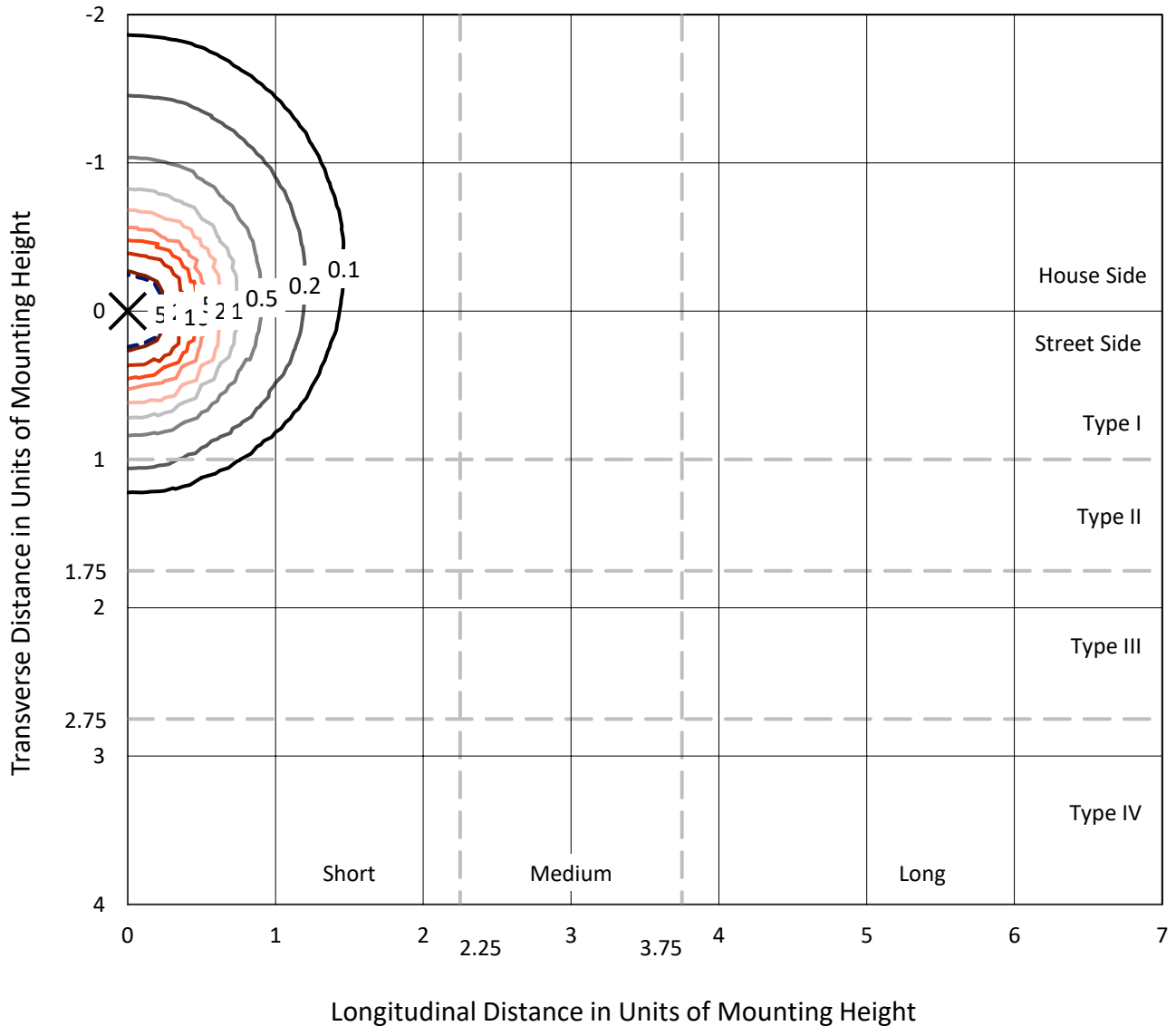


Me			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	GONIO 1 IN0055	4/22/2021	10/22/2021
Power Meter	XITRON 2801 IN0197	12/1/2020	12/1/2021
AC Power Source	CHROMA 61505 IN0196	12/1/2020	12/1/2021
DC Power Supply	AGILENT E3634A IN0198	11/30/2020	11/30/2021
Room Thermometer	ONSET IN0143	12/1/2020	12/1/2021

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Iso-Footcandle Lines of Horizontal Illumination

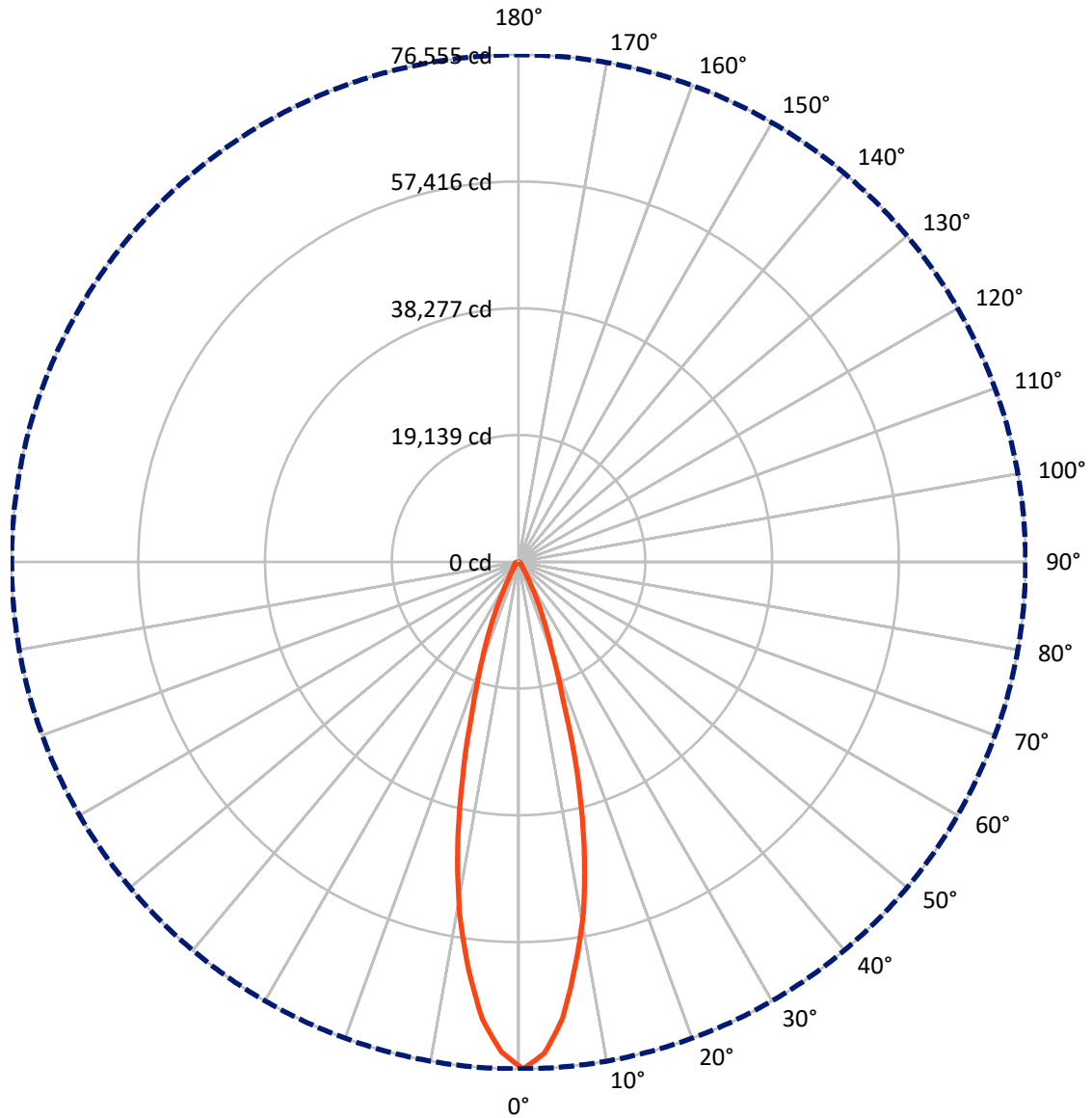
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 122.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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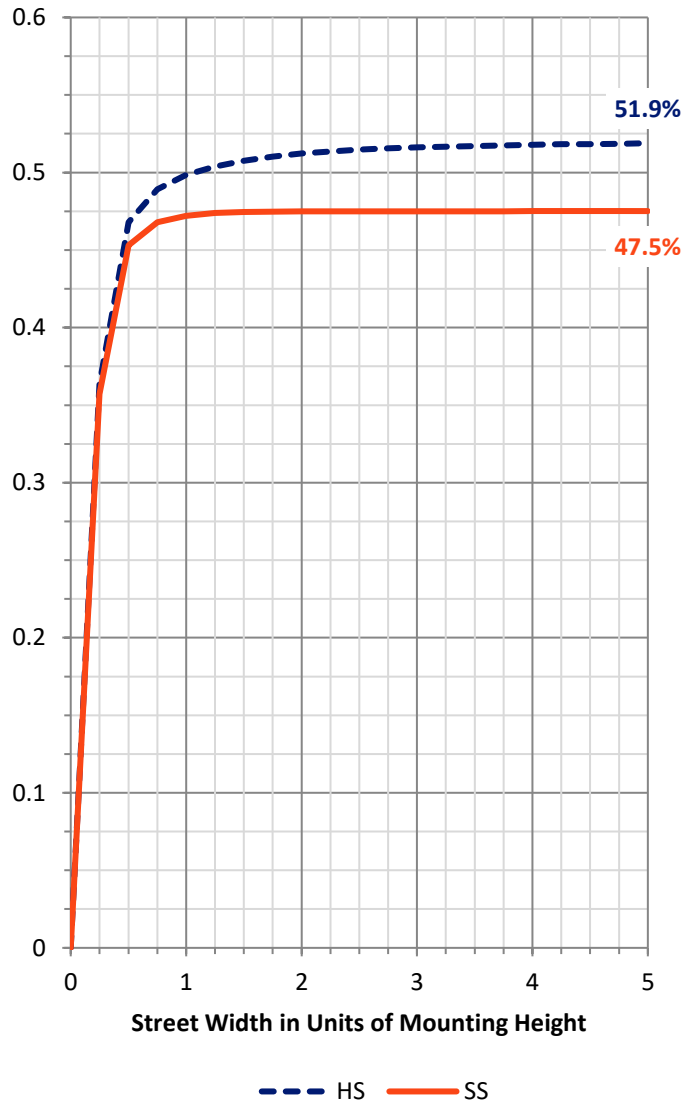
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11455.7	0.0	11455.7
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	10270.8	0.0	10270.8
	% Fixture	47.3	0.0	47.3
Total	Lumens	21726.5	0.0	21726.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6178.6	28.4
10°-20°	9357.5	43.1
20°-30°	3948.9	18.2
30°-40°	1029.9	4.7
40°-50°	520.9	2.4
50°-60°	340.5	1.6
60°-70°	204.0	0.9
70°-80°	107.3	0.5
80°-90°	38.8	0.2
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°	21726.5	100.0
0°-180°	21726.5	100.0

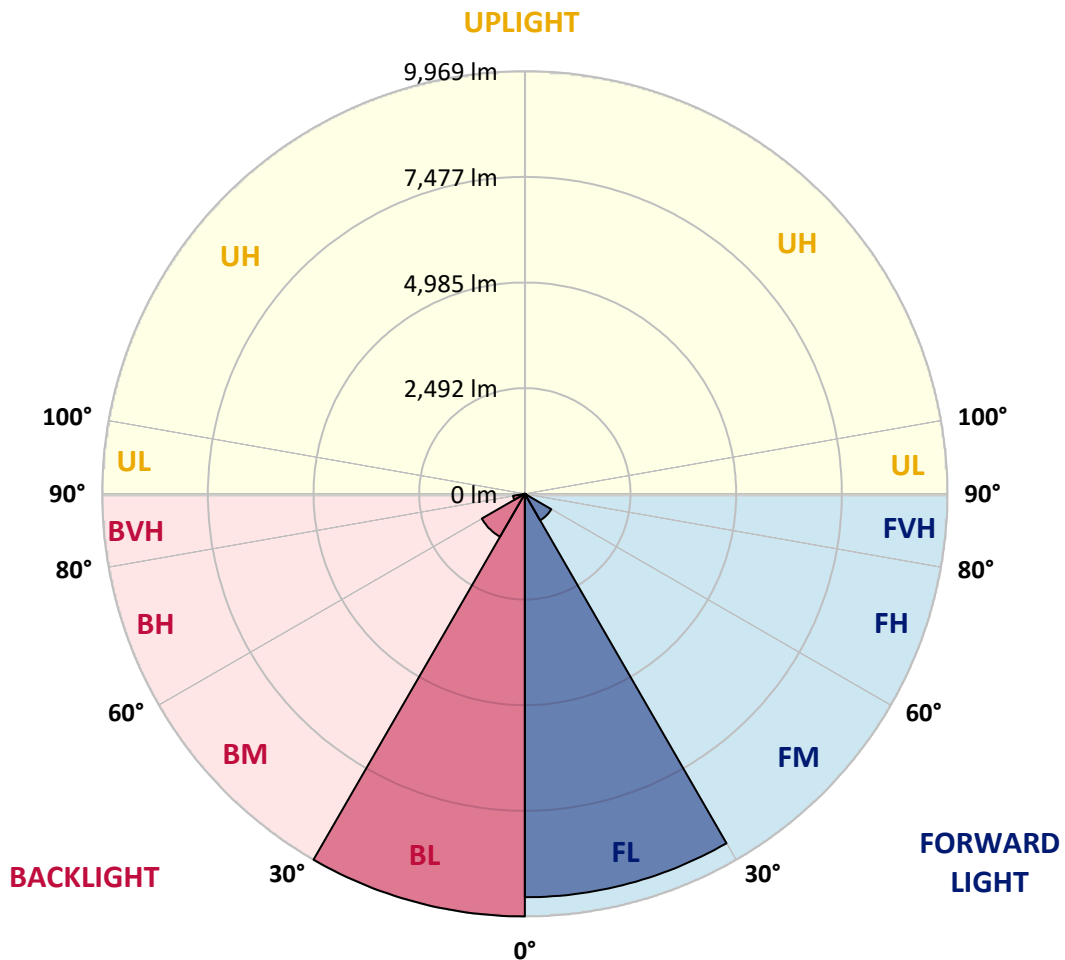


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9516.1	43.8			
FM (30°-60°)	720.7	3.3			
FH (60°-80°)	29.4	0.1			G0/660
FVH (80°-90°)	4.7	0.0			G0/10
BL (0°-30°)	9969.0	45.9	B5		
BM (30°-60°)	1170.6	5.4	B2/2500		
BH (60°-80°)	281.9	1.3	B1/500		G0/660
BVH (80°-90°)	34.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1
 Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	76554.7	76554.7	76554.7	76554.7	76554.7	76554.7	76554.7	76554.7	76554.7	76554.7
2.5°	74324.6	74366.1	74212.4	74544.2	74285.6	74978.5	74634.5	75171.3	74990.7	75290.8
5°	69249.6	69181.3	69137.3	69652.2	69503.3	70247.5	69771.7	69615.6	70098.7	70010.8
7.5°	61585.8	61766.4	61663.9	61798.1	61873.7	62722.8	62991.2	62781.4	62788.7	62910.7
10°	53729.3	53463.4	53085.2	53336.5	53868.4	54239.2	54090.4	54397.8	54329.5	54619.9
12.5°	44062.4	44272.2	44059.9	43835.5	44765.1	44662.6	44921.2	45089.6	44667.5	45606.8
15°	33190.1	33299.9	33558.6	33541.5	34256.4	34400.3	34366.2	34544.3	34214.9	34371.0
17.5°	21322.4	21693.3	22388.6	23564.7	24887.1	25040.8	25001.8	24855.4	24696.8	24521.1
20°	14322.3	14283.2	14534.6	14878.6	17616.2	18340.8	18318.9	17860.2	17196.5	17069.6
22.5°	10032.9	10106.1	10072.0	10413.5	10979.6	12977.9	12731.5	12265.4	12048.3	11906.8
25°	6600.0	6573.1	6743.9	6846.4	7331.9	7575.9	8439.7	8266.4	7932.2	7968.8
27.5°	4023.4	4057.6	4121.0	4208.8	4552.9	4474.8	4967.7	5033.5	4926.2	4811.5
30°	2469.2	2493.6	2544.8	2608.3	2727.8	2642.4	2779.1	3015.7	2976.7	2896.2
32.5°	1676.2	1678.7	1715.3	1739.7	1725.0	1644.5	1688.4	1912.9	1917.8	1910.5
35°	1205.3	1205.3	1239.5	1259.0	1217.5	1151.6	1159.0	1298.0	1359.0	1371.2
37.5°	832.0	834.4	893.0	951.6	905.2	888.1	858.8	951.6	1049.2	1063.8
40°	631.9	629.5	658.8	702.7	707.6	675.9	685.6	744.2	844.2	856.4
42.5°	512.4	514.8	529.5	524.6	527.0	568.5	583.1	610.0	702.7	724.7
45°	431.9	434.3	441.6	417.2	407.5	470.9	490.4	505.1	583.1	610.0
47.5°	356.2	361.1	368.4	341.6	336.7	378.2	412.3	427.0	495.3	524.6
50°	256.2	261.1	287.9	273.3	287.9	297.7	344.0	366.0	412.3	451.4
52.5°	185.4	190.3	197.6	200.1	236.7	241.6	275.7	309.9	331.8	375.7
55°	146.4	151.3	146.4	141.5	173.2	200.1	212.3	248.9	266.0	317.2
57.5°	83.0	87.8	95.2	109.8	114.7	153.7	165.9	197.6	212.3	261.1
60°	14.6	17.1	26.8	65.9	80.5	97.6	124.4	151.3	170.8	205.0
62.5°	2.4	2.4	4.9	14.6	46.4	68.3	90.3	107.4	124.4	156.2
65°	0.0	0.0	2.4	4.9	12.2	39.0	48.8	63.4	85.4	112.2
67.5°	0.0	0.0	2.4	4.9	7.3	14.6	22.0	39.0	48.8	75.6
70°	0.0	0.0	2.4	4.9	7.3	9.8	12.2	17.1	29.3	46.4
72.5°	0.0	0.0	2.4	4.9	7.3	9.8	12.2	14.6	14.6	29.3
75°	0.0	0.0	2.4	4.9	7.3	12.2	14.6	14.6	12.2	12.2
77.5°	0.0	0.0	2.4	4.9	9.8	14.6	17.1	14.6	9.8	9.8
80°	0.0	0.0	4.9	7.3	12.2	17.1	22.0	17.1	9.8	4.9
82.5°	0.0	0.0	4.9	9.8	12.2	19.5	26.8	22.0	9.8	4.9
85°	0.0	0.0	2.4	7.3	14.6	19.5	26.8	19.5	9.8	2.4
87.5°	0.0	0.0	2.4	2.4	4.9	7.3	14.6	12.2	4.9	2.4
90°	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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
76554.7	0°	76554.7	76554.7	76554.7	76554.7	76554.7	76554.7	76554.7	76554.7	76554.7
74722.3	2.5°	75151.7	75542.1	75622.6	75515.3	75671.4	75390.8	75176.1	74619.8	74285.6
69984.0	5°	70435.4	70376.8	70784.3	70918.5	70901.4	70686.7	70386.6	70049.9	69722.9
62674.0	7.5°	63064.4	63140.0	63510.9	63747.6	63628.0	63359.6	63152.2	62898.5	62678.9
54724.8	10°	55225.0	54705.3	55166.4	55166.4	55486.0	54727.2	54798.0	54158.7	54188.0
45589.8	12.5°	45745.9	45933.8	46009.4	46226.6	45853.3	45450.7	44957.8	44860.2	44555.2
34073.4	15°	34563.8	35100.6	34639.4	35427.5	35046.9	34627.2	34551.6	33795.2	34034.3
24713.9	17.5°	24591.9	25184.8	25370.2	25821.6	25475.1	25226.3	24911.5	24682.2	24665.1
17301.4	20°	17438.1	18033.4	18170.0	18711.7	18672.6	18594.6	18328.6	18038.3	17723.5
11777.5	22.5°	11955.6	12441.1	12894.9	13624.5	13612.3	13382.9	13356.1	12946.2	12953.5
7956.6	25°	8039.5	8393.3	8500.7	9247.3	9330.2	9305.8	9166.7	8786.1	8930.1
4860.3	27.5°	4865.2	5175.1	5538.6	5802.1	6051.0	6011.9	5872.9	5660.6	5567.9
2920.6	30°	2998.7	3137.7	3271.9	3589.1	3737.9	3816.0	3750.1	3552.5	3567.2
1922.7	32.5°	1964.1	2081.2	2178.8	2378.9	2457.0	2600.9	2574.1	2532.6	2483.8
1383.4	35°	1432.2	1517.6	1583.5	1676.2	1776.3	1898.3	1917.8	1900.7	1881.2
1068.7	37.5°	1093.1	1180.9	1256.6	1295.6	1373.7	1468.8	1522.5	1520.1	1505.4
871.0	40°	888.1	954.0	1022.3	1073.6	1127.2	1198.0	1263.9	1271.2	1271.2
732.0	42.5°	741.7	797.9	866.2	919.8	958.9	1024.8	1093.1	1098.0	1093.1
619.7	45°	634.4	683.2	749.1	812.5	844.2	893.0	958.9	973.5	963.8
531.9	47.5°	551.4	595.3	651.5	719.8	753.9	797.9	858.8	875.9	873.5
458.7	50°	473.3	524.6	580.7	636.8	680.7	722.2	780.8	800.3	793.0
390.4	52.5°	417.2	463.6	512.4	573.4	624.6	661.2	707.6	741.7	732.0
329.4	55°	348.9	405.0	456.3	507.5	570.9	610.0	653.9	695.4	685.6
278.1	57.5°	302.5	348.9	407.5	453.8	517.3	563.6	607.5	651.5	649.0
226.9	60°	253.8	302.5	358.7	407.5	466.0	517.3	561.2	610.0	614.9
170.8	62.5°	200.1	258.6	307.4	363.5	422.1	478.2	517.3	566.1	573.4
129.3	65°	151.3	212.3	266.0	319.6	378.2	439.2	473.3	514.8	522.1
95.2	67.5°	112.2	163.5	226.9	275.7	336.7	395.3	427.0	461.1	473.3
58.6	70°	85.4	124.4	190.3	236.7	300.1	346.5	380.6	409.9	419.7
39.0	72.5°	53.7	97.6	153.7	202.5	258.6	300.1	324.5	341.6	356.2
22.0	75°	36.6	75.6	124.4	173.2	214.7	246.4	268.4	283.0	295.2
9.8	77.5°	22.0	58.6	102.5	144.0	170.8	195.2	217.2	226.9	234.2
7.3	80°	12.2	43.9	85.4	117.1	134.2	151.3	168.4	180.6	185.4
4.9	82.5°	7.3	34.2	68.3	90.3	97.6	114.7	131.8	139.1	139.1
2.4	85°	4.9	24.4	46.4	65.9	70.8	83.0	87.8	92.7	97.6
2.4	87.5°	4.9	14.6	29.3	36.6	39.0	43.9	46.4	51.2	56.1
0.0	90°	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


NVLAP Lab Code: 200050-0



180°
76554.7
74039.1
69356.9
61934.7
53902.5
44277.1
33795.2
24211.2
17586.9
12812.0
8703.2
5487.4
3503.7
2466.8
1873.9
1498.1
1256.6
1088.2
963.8
868.6
788.1
729.5
690.5
651.5
617.3
578.3
529.5
478.2
424.5
353.8
292.8
231.8
180.6
136.6
95.2
53.7
0.0

(END OF REPORT)