

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



Scaled data based on original data using
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: P1065382

Luminaire Tested: **GLAN-SA9B-827-U-LBC**

Issue Date: 08/07/2025



Test Information

Test Method: LM-79-08
Report Number: P1065382
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9B-827-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 9xLight Square PACKAGE
80CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (126) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31088.4 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

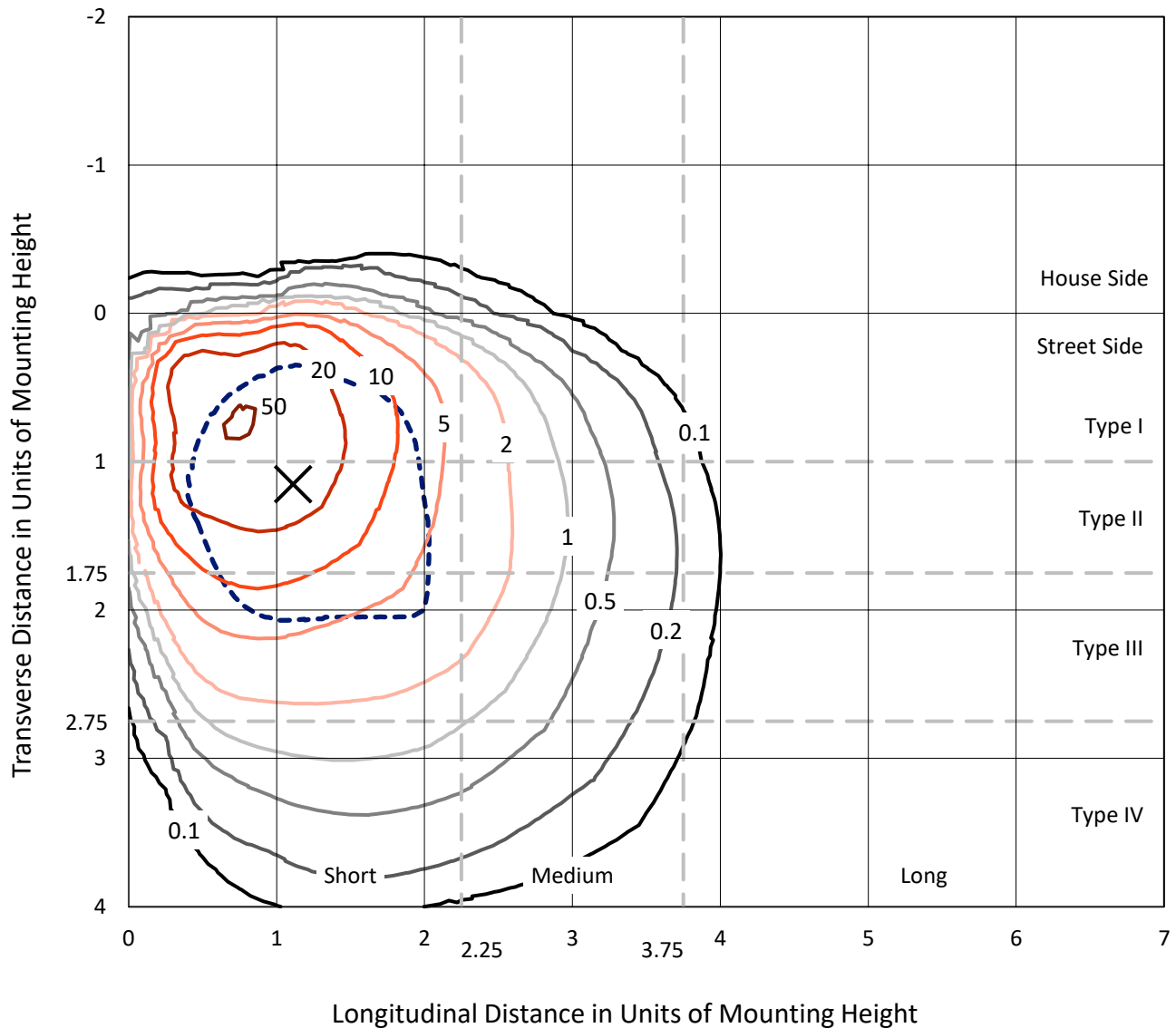
Input Watts (W): 312.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

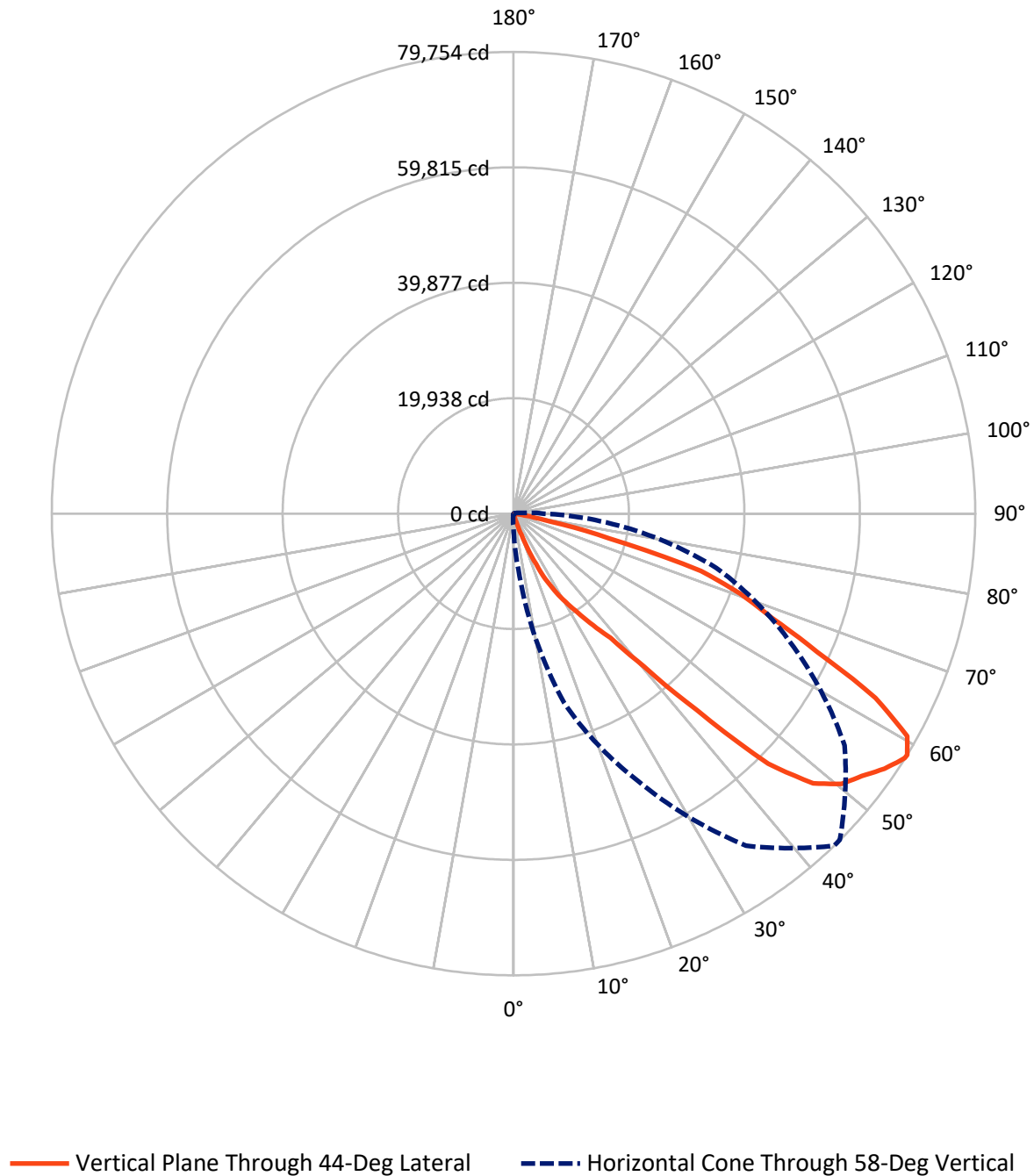
× Max cd
- - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 54.1 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	212.3	0.0	212.3
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	30876.1	0.0	30876.1
	% Fixture	99.3	0.0	99.3
Total	Lumens	31088.4	0.0	31088.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.2	0.0
10°-20°	68.2	0.2
20°-30°	736.5	2.4
30°-40°	2178.0	7.0
40°-50°	6491.7	20.9
50°-60°	10300.8	33.1
60°-70°	8592.1	27.6
70°-80°	2650.0	8.5
80°-90°	58.9	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°	31088.4	100.0
0°-180°	31088.4	100.0



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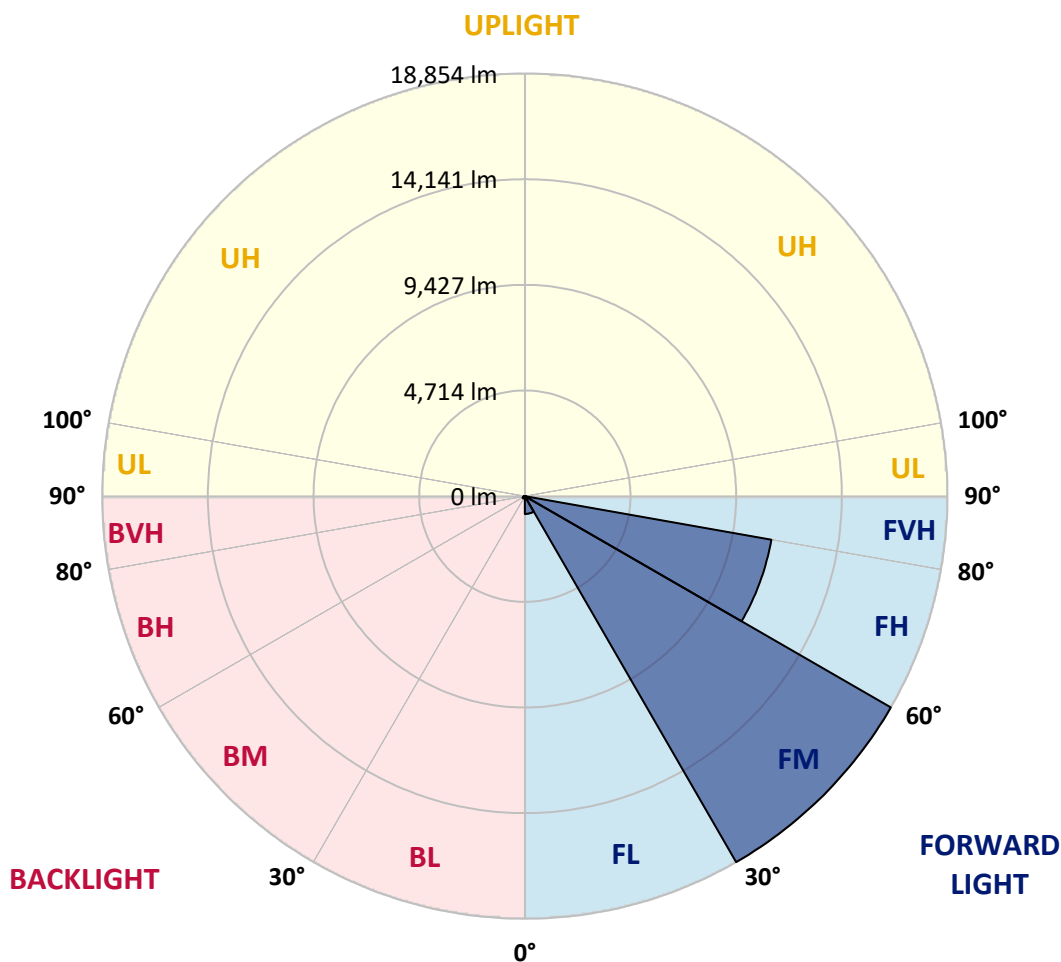
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	796.0	2.6			
FM	(30°-60°)	18854.5	60.6			
FH	(60°-80°)	11169.6	35.9			G4/12000
FVH	(80°-90°)	56.0	0.2			G1/100
BL	(0°-30°)	20.8	0.1	B0/110		
BM	(30°-60°)	116.2	0.4	B0/220		
BH	(60°-80°)	72.5	0.2	B0/110		G0/110
BVH	(80°-90°)	2.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	136.2	136.2	136.2	136.2	136.2	136.2	136.2	136.2	136.2	136.2
2.5°	176.1	176.1	169.1	159.7	150.3	140.9	138.6	133.9	131.5	129.2
5°	183.2	183.2	180.8	173.8	164.4	157.3	157.3	150.3	145.6	140.9
7.5°	187.9	190.2	194.9	192.6	187.9	180.8	180.8	176.1	169.1	157.3
10°	194.9	202.0	211.4	216.1	218.4	218.4	216.1	213.7	202.0	185.5
12.5°	202.0	216.1	239.5	263.0	277.1	295.9	293.6	288.9	258.3	223.1
15°	216.1	237.2	286.5	354.6	460.3	526.1	551.9	528.4	427.4	300.6
17.5°	232.5	267.7	415.7	742.1	1216.5	1442.0	1578.2	1467.8	972.3	570.7
20°	248.9	326.4	772.6	1923.4	3156.3	3893.8	4098.1	3778.7	2426.0	1087.3
22.5°	277.1	458.0	1566.4	3975.9	6801.1	7907.3	8116.3	7094.7	4581.9	2146.5
25°	335.8	664.6	2700.7	6479.4	10150.1	12017.1	11930.2	10591.6	7432.9	3428.8
27.5°	420.4	967.6	4084.0	9206.0	13358.1	15004.3	15201.6	13545.9	9908.2	5042.1
30°	542.5	1341.0	5568.2	11390.0	15929.6	17709.8	17742.6	16030.6	12122.8	6458.3
32.5°	659.9	1693.2	6866.9	13501.3	18463.6	20415.2	20560.8	18454.2	13776.1	7933.1
35°	749.2	1923.4	8182.0	15356.6	21018.7	23707.7	23698.3	21197.2	15734.7	9250.6
37.5°	756.2	2153.5	9372.7	17254.2	24254.9	27265.7	27563.9	24806.8	18102.0	10880.4
40°	739.8	2411.9	10880.4	20213.2	30086.2	34705.6	34968.6	31492.9	22850.5	13670.4
42.5°	758.6	2860.4	13327.5	25678.1	39768.9	46403.3	46910.5	43256.3	31579.8	19363.1
45°	857.2	3703.5	18454.2	34820.7	53570.8	61658.9	61489.8	56226.9	41736.9	28028.9
47.5°	1183.6	5767.8	26053.8	43719.0	62391.6	69594.4	69740.0	63307.5	47664.4	34691.5
50°	1820.1	8825.5	32439.3	48423.0	66184.4	73410.6	73274.4	65841.5	49916.6	37972.3
52.5°	2367.3	11037.8	35642.6	50073.9	66670.5	75296.4	75287.0	66508.5	50266.5	38254.1
55°	2503.5	11204.5	35668.5	50163.2	67760.2	77764.7	78074.7	68150.0	50719.8	37023.5
57.5°	2449.4	9919.9	34179.5	50679.8	69700.0	79674.0	79690.4	69740.0	51870.5	36269.7
58°	2402.5	9717.9	33878.9	50973.4	70033.5	79753.8	79713.9	69812.8	52807.5	36241.5
60°	2139.4	8438.0	32707.0	51722.5	69538.0	78114.6	77741.2	68222.8	52669.0	35952.6
62.5°	1681.5	6582.7	31553.9	50856.0	64225.8	70179.1	70334.1	60400.1	48014.3	34268.8
65°	1338.6	4905.9	29149.1	44609.1	52887.4	57631.3	58209.0	49115.8	40076.5	29017.6
67.5°	1066.2	3546.2	24452.2	35515.8	41849.6	48098.9	48519.2	41236.7	31049.0	22232.9
70°	866.6	2397.8	16878.4	25974.0	34517.7	41544.3	41570.1	34257.0	23174.6	14567.5
72.5°	767.9	1660.4	9797.8	18942.7	27989.0	33853.1	33169.7	27798.8	17810.7	8628.3
75°	664.6	1101.4	4805.0	11580.3	16970.0	17085.1	17345.7	12895.4	8903.0	4102.8
77.5°	547.2	782.0	1892.9	3163.4	5089.1	6514.6	6756.5	5119.6	2961.4	1009.8
80°	375.8	371.1	509.6	969.9	1456.0	1824.8	1702.6	1317.5	775.0	387.5
82.5°	162.0	176.1	230.1	277.1	225.5	218.4	209.0	133.9	103.3	79.8
85°	51.7	47.0	49.3	49.3	39.9	30.5	30.5	14.1	0.0	0.0
87.5°	25.8	21.1	21.1	18.8	11.7	4.7	2.3	0.0	0.0	0.0
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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
136.2	0°	136.2	136.2	136.2	136.2	136.2	136.2	136.2	136.2	136.2	136.2
126.8	2.5°	124.5	124.5	119.8	115.1	112.7	108.0	105.7	103.3	101.0	98.6
136.2	5°	131.5	129.2	122.1	115.1	108.0	101.0	96.3	91.6	86.9	84.5
150.3	7.5°	143.3	138.6	124.5	112.7	103.3	93.9	89.2	82.2	77.5	70.5
166.7	10°	157.3	148.0	129.2	115.1	101.0	89.2	82.2	75.2	68.1	58.7
190.2	12.5°	176.1	159.7	136.2	112.7	96.3	82.2	75.2	65.8	58.7	51.7
220.8	15°	192.6	171.4	138.6	112.7	91.6	75.2	65.8	56.4	49.3	39.9
277.1	17.5°	216.1	180.8	136.2	105.7	84.5	65.8	56.4	49.3	37.6	23.5
411.0	20°	256.0	187.9	131.5	98.6	72.8	54.0	42.3	32.9	16.4	4.7
617.6	22.5°	319.4	206.7	126.8	89.2	63.4	42.3	28.2	11.7	0.0	0.0
939.4	25°	441.5	239.5	126.8	84.5	56.4	30.5	9.4	0.0	0.0	0.0
1333.9	27.5°	587.1	284.2	126.8	72.8	44.6	16.4	0.0	0.0	0.0	0.0
1817.7	30°	735.1	333.5	126.8	63.4	35.2	2.3	0.0	0.0	0.0	0.0
2238.1	32.5°	876.0	375.8	129.2	54.0	23.5	0.0	0.0	0.0	0.0	0.0
2820.5	35°	1019.2	382.8	126.8	47.0	14.1	0.0	0.0	0.0	0.0	0.0
3534.4	37.5°	1202.4	368.7	119.8	42.3	7.0	0.0	0.0	0.0	0.0	0.0
4650.0	40°	1479.5	375.8	112.7	39.9	2.3	0.0	0.0	0.0	0.0	0.0
6639.1	42.5°	1991.5	406.3	103.3	39.9	0.0	0.0	0.0	0.0	0.0	0.0
10575.1	45°	3442.8	544.8	93.9	42.3	0.0	0.0	0.0	0.0	0.0	0.0
15875.6	47.5°	5695.0	979.3	91.6	42.3	0.0	0.0	0.0	0.0	0.0	0.0
19123.5	50°	7268.5	1232.9	96.3	44.6	0.0	0.0	0.0	0.0	0.0	0.0
19529.8	52.5°	7256.8	1373.9	101.0	47.0	9.4	0.0	0.0	0.0	0.0	0.0
18001.0	55°	6451.2	1399.7	108.0	51.7	30.5	0.0	0.0	0.0	0.0	0.0
15469.3	57.5°	5392.1	1277.6	124.5	63.4	56.4	0.0	0.0	0.0	0.0	0.0
15072.4	58°	5204.2	1221.2	129.2	65.8	61.1	0.0	0.0	0.0	0.0	0.0
13073.9	60°	4264.8	995.7	164.4	82.2	82.2	0.0	0.0	0.0	0.0	0.0
10718.4	62.5°	2945.0	868.9	187.9	105.7	84.5	0.0	0.0	0.0	0.0	0.0
7902.6	65°	2083.1	784.4	204.3	112.7	68.1	0.0	0.0	0.0	0.0	0.0
5615.2	67.5°	1557.0	723.3	225.5	115.1	35.2	0.0	0.0	0.0	0.0	0.0
3522.7	70°	1193.0	678.7	277.1	122.1	9.4	0.0	0.0	0.0	0.0	0.0
2099.5	72.5°	972.3	627.0	335.8	126.8	0.0	0.0	0.0	0.0	0.0	0.0
1258.8	75°	805.5	566.0	324.1	138.6	0.0	0.0	0.0	0.0	0.0	0.0
671.7	77.5°	535.4	439.2	295.9	138.6	0.0	0.0	0.0	0.0	0.0	0.0
239.5	80°	187.9	173.8	230.1	122.1	0.0	0.0	0.0	0.0	0.0	0.0
49.3	82.5°	28.2	23.5	32.9	42.3	0.0	0.0	0.0	0.0	0.0	0.0
0.0	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	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):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
136.2	0°	136.2	136.2	136.2	136.2	136.2	136.2	136.2	136.2	136.2	136.2
96.3	2.5°	96.3	96.3	93.9	96.3	96.3	101.0	112.7	129.2	148.0	155.0
82.2	5°	79.8	77.5	75.2	75.2	75.2	82.2	91.6	110.4	131.5	140.9
68.1	7.5°	65.8	63.4	61.1	58.7	58.7	63.4	75.2	96.3	117.4	126.8
56.4	10°	54.0	49.3	47.0	44.6	44.6	49.3	61.1	82.2	105.7	115.1
47.0	12.5°	44.6	37.6	32.9	30.5	28.2	35.2	47.0	65.8	91.6	103.3
35.2	15°	30.5	23.5	16.4	14.1	11.7	18.8	30.5	51.7	77.5	91.6
18.8	17.5°	16.4	7.0	2.3	0.0	0.0	4.7	14.1	37.6	63.4	75.2
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.8	47.0	58.7
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	28.2	39.9
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.7	21.1
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7
0.0	30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.4	18.8
0.0	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):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
136.2	0°	136.2	136.2	136.2	136.2	136.2	136.2	136.2	136.2	136.2	136.2
162.0	2.5°	166.7	164.4	159.7	155.0	155.0	155.0	162.0	169.1	176.1	176.1
145.6	5°	155.0	155.0	152.7	148.0	148.0	150.3	159.7	171.4	180.8	183.2
133.9	7.5°	143.3	148.0	143.3	140.9	143.3	145.6	155.0	169.1	183.2	187.9
124.5	10°	136.2	138.6	138.6	136.2	136.2	140.9	150.3	169.1	187.9	194.9
112.7	12.5°	126.8	131.5	129.2	129.2	129.2	133.9	145.6	166.7	192.6	202.0
101.0	15°	117.4	124.5	124.5	122.1	122.1	124.5	140.9	164.4	199.6	216.1
86.9	17.5°	108.0	115.1	117.4	112.7	112.7	117.4	133.9	164.4	204.3	232.5
70.5	20°	89.2	101.0	108.0	101.0	101.0	105.7	122.1	155.0	206.7	248.9
51.7	22.5°	70.5	82.2	91.6	89.2	89.2	91.6	112.7	148.0	209.0	277.1
30.5	25°	51.7	63.4	70.5	75.2	75.2	82.2	103.3	143.3	218.4	335.8
14.1	27.5°	30.5	44.6	54.0	58.7	61.1	70.5	96.3	138.6	234.8	420.4
0.0	30°	14.1	25.8	37.6	47.0	47.0	63.4	89.2	133.9	256.0	542.5
0.0	32.5°	0.0	11.7	18.8	32.9	35.2	51.7	82.2	129.2	286.5	659.9
0.0	35°	0.0	0.0	9.4	25.8	25.8	42.3	75.2	124.5	333.5	749.2
0.0	37.5°	0.0	0.0	0.0	18.8	21.1	37.6	72.8	122.1	342.9	756.2
0.0	40°	0.0	0.0	0.0	14.1	16.4	35.2	72.8	124.5	310.0	739.8
0.0	42.5°	0.0	0.0	0.0	9.4	11.7	35.2	72.8	129.2	279.5	758.6
0.0	45°	0.0	0.0	0.0	7.0	9.4	37.6	70.5	126.8	263.0	857.2
0.0	47.5°	0.0	0.0	0.0	9.4	14.1	37.6	68.1	124.5	265.4	1183.6
0.0	50°	0.0	0.0	0.0	11.7	16.4	37.6	70.5	119.8	291.2	1820.1
0.0	52.5°	0.0	0.0	0.0	9.4	14.1	42.3	77.5	117.4	317.0	2367.3
0.0	55°	0.0	0.0	0.0	2.3	7.0	54.0	84.5	117.4	357.0	2503.5
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	61.1	96.3	124.5	422.7	2449.4
0.0	58°	0.0	0.0	0.0	0.0	0.0	61.1	98.6	124.5	427.4	2402.5
0.0	60°	0.0	0.0	0.0	0.0	0.0	61.1	108.0	138.6	460.3	2139.4
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	51.7	129.2	173.8	479.1	1681.5
0.0	65°	0.0	0.0	0.0	0.0	0.0	42.3	152.7	190.2	493.2	1338.6
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	39.9	157.3	192.6	500.2	1066.2
0.0	70°	0.0	0.0	0.0	0.0	0.0	42.3	155.0	206.7	523.7	866.6
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	47.0	140.9	227.8	523.7	767.9
0.0	75°	0.0	0.0	0.0	0.0	0.0	49.3	131.5	256.0	476.7	664.6
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	47.0	129.2	298.3	425.1	547.2
0.0	80°	4.7	7.0	7.0	4.7	4.7	39.9	126.8	303.0	361.7	375.8
2.3	82.5°	14.1	18.8	16.4	11.7	11.7	35.2	112.7	253.6	187.9	162.0
14.1	85°	25.8	30.5	30.5	25.8	25.8	32.9	70.5	91.6	63.4	51.7
25.8	87.5°	35.2	39.9	39.9	35.2	35.2	32.9	30.5	28.2	25.8	25.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF RI



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-8

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-827-U-5WQ

Data in this report applies to families of products including GSS-SB1A-827-U-5WQ

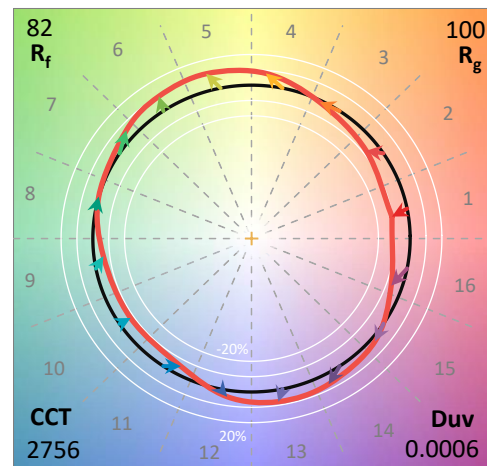
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-8
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 10/15/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: McGraw-Edison
 Catalog Number: **GSS-SB1A-827-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 2700K CCT 26 LEDS

Spectral Parameters

CCT (K): 2756
 CIE u' : 0.2599
 CIE v' : 0.5271
 Duv: 0.0006
 CIE x: 0.4563
 CIE y: 0.4112
 CIE z: 0.1325
 Peak Wavelength (nm): 609
 Dominant Wavelength (nm): 583
 Purity: 60.41121
 R_f: 82.2
 R_g: 99.9

CRI (Ra): 82.9
 R1: 81.6
 R2: 88.8
 R3: 96.0
 R4: 83.4
 R5: 81.4
 R6: 87.0
 R7: 84.0
 R8: 60.8
 R9: 10.8
 R10: 74.8
 R11: 84.3
 R12: 72.1
 R13: 82.9
 R14: 97.3
 R15: 73.7



Test Conditions

Stabilization Time: 29M
 Operation Time: 1H 29M
 Sphere Temperature (°C): 25.2

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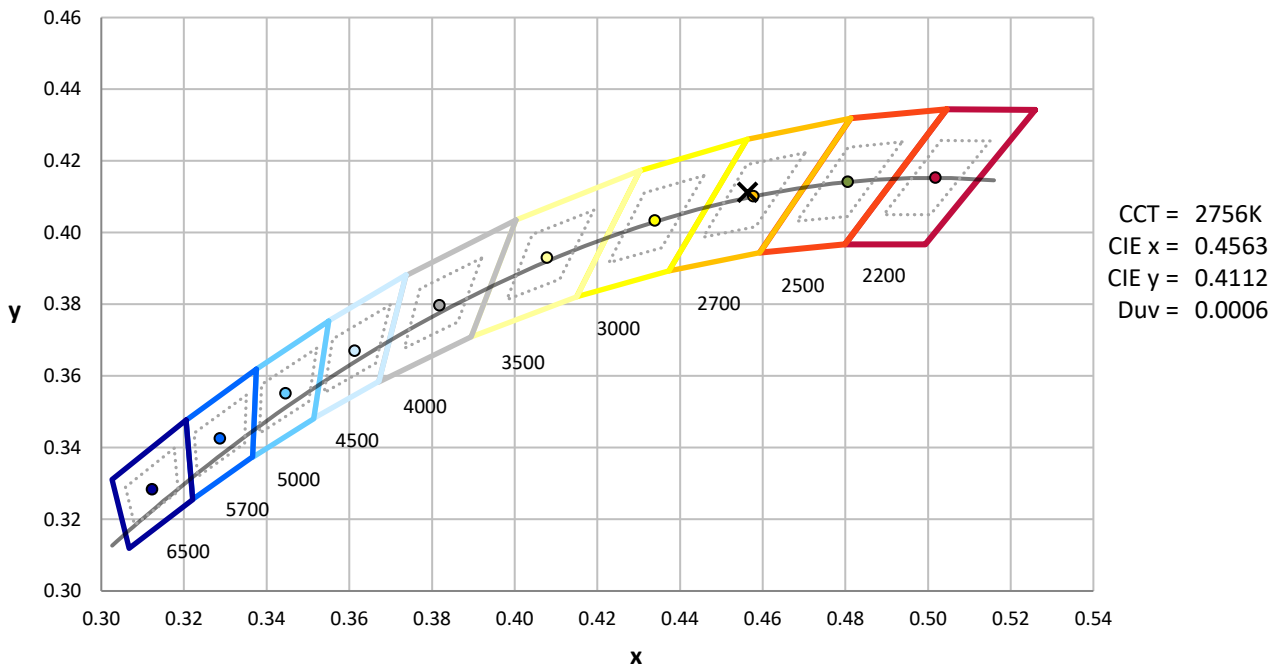
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

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CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

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Photopic Flux vs. Wavelength



Photopic Lumens: NR

λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



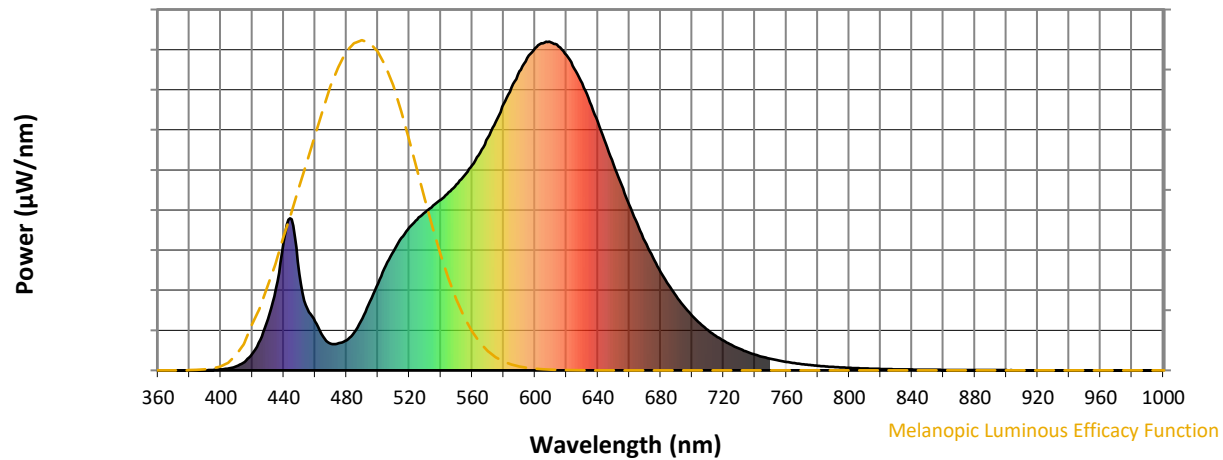
Scotopic Lumens: NR

S/P: 1.2

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.16

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-8

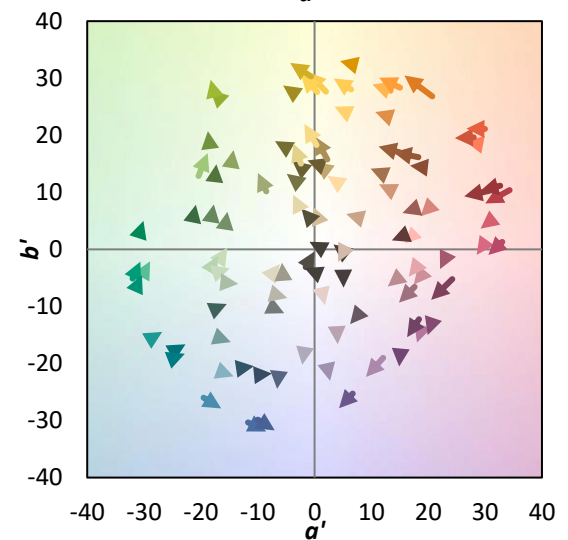
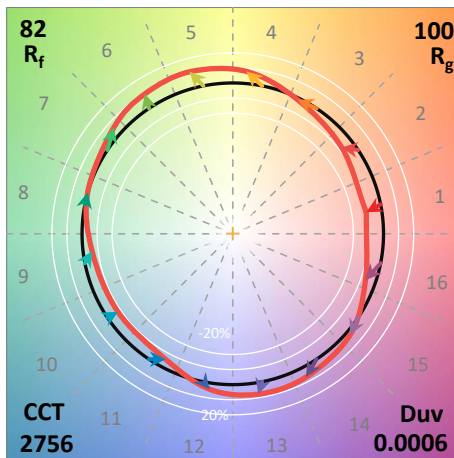
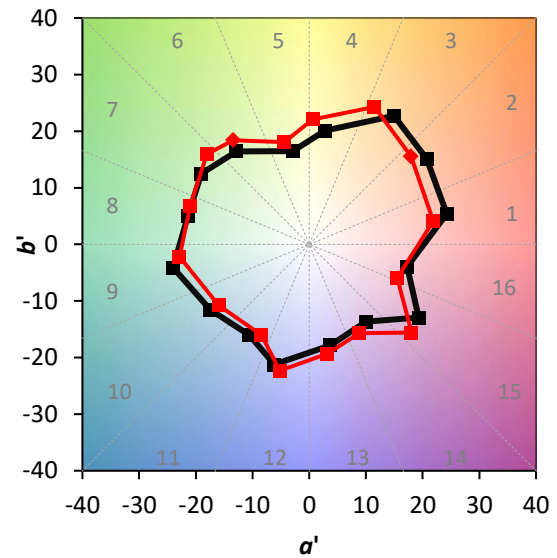
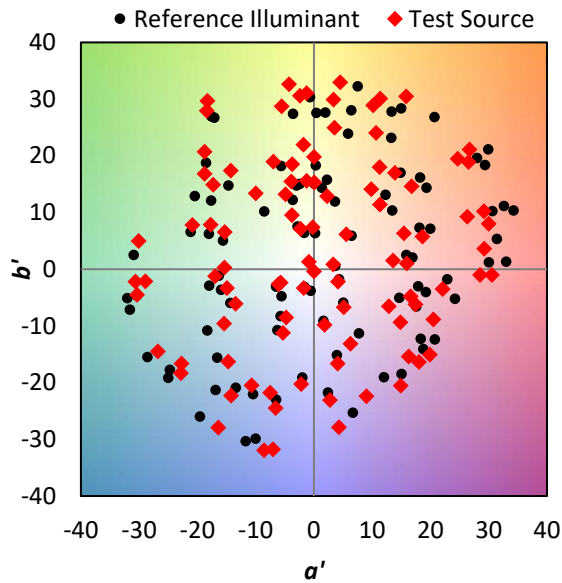
TM-30-18

Summary

$R_f = 82.2$
 $R_g = 99.9$
 $CIE R_a = 82.9$
 $R_9 = 10.8$

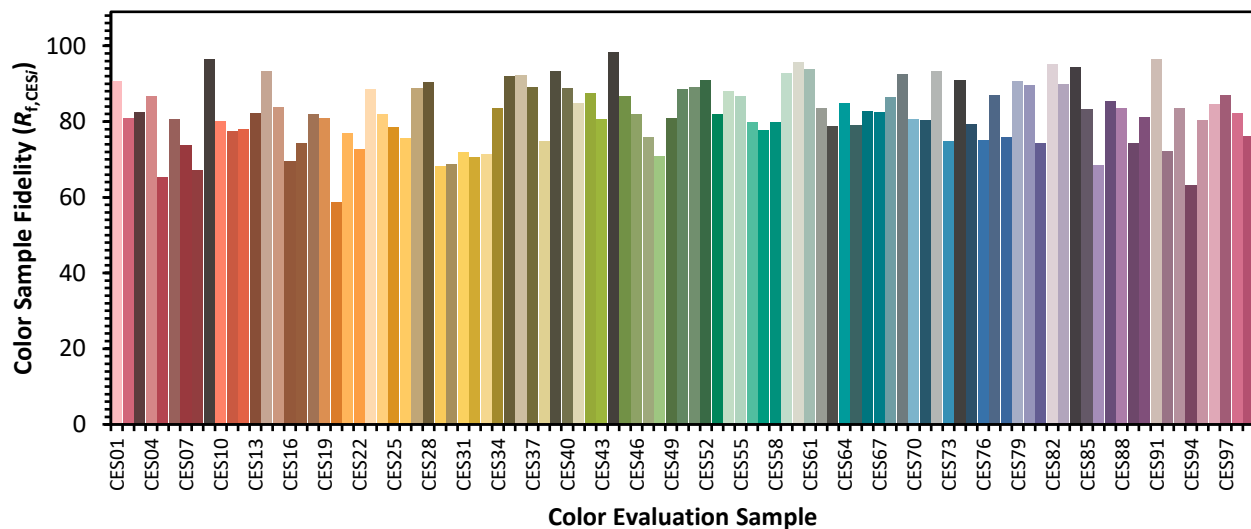


Color Vector Graphics

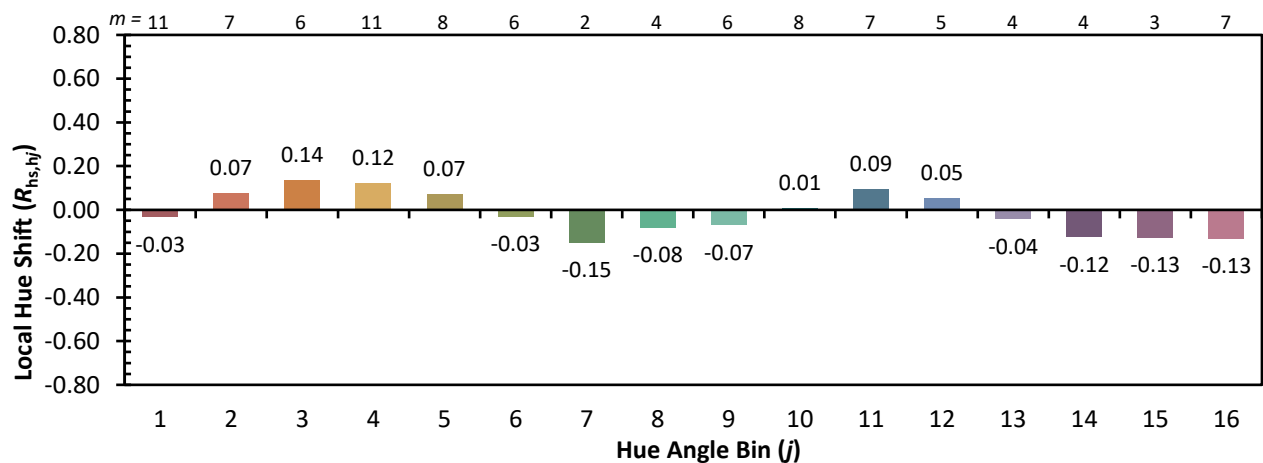


Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 76	CES51 = 89	CES76 = 75
CES02 = 63	CES27 = 89	CES52 = 91	CES77 = 87
CES03 = 31	CES28 = 90	CES53 = 82	CES78 = 76
CES04 = 71	CES29 = 68	CES54 = 88	CES79 = 91
CES05 = 50	CES30 = 69	CES55 = 87	CES80 = 90
CES06 = 52	CES31 = 72	CES56 = 80	CES81 = 74
CES07 = 43	CES32 = 71	CES57 = 78	CES82 = 95
CES08 = 42	CES33 = 71	CES58 = 80	CES83 = 90
CES09 = 29	CES34 = 84	CES59 = 93	CES84 = 94
CES10 = 77	CES35 = 92	CES60 = 96	CES85 = 83
CES11 = 59	CES36 = 92	CES61 = 94	CES86 = 69
CES12 = 66	CES37 = 89	CES62 = 84	CES87 = 85
CES13 = 44	CES38 = 75	CES63 = 79	CES88 = 84
CES14 = 74	CES39 = 93	CES64 = 85	CES89 = 74
CES15 = 72	CES40 = 89	CES65 = 79	CES90 = 81
CES16 = 48	CES41 = 85	CES66 = 83	CES91 = 96
CES17 = 50	CES42 = 88	CES67 = 82	CES92 = 72
CES18 = 57	CES43 = 81	CES68 = 86	CES93 = 84
CES19 = 73	CES44 = 98	CES69 = 92	CES94 = 63
CES20 = 67	CES45 = 87	CES70 = 81	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 81	CES96 = 85
CES22 = 79	CES47 = 76	CES72 = 93	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 75	CES98 = 82
CES24 = 91	CES49 = 81	CES74 = 91	CES99 = 76
CES25 = 72	CES50 = 88	CES75 = 79	



Color Rendition by Hue-Angle Bin



Measure Comparisons


(END OF REPORT)