

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: P1065379

Luminaire Tested: **GLAN-SA8C-827-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1065379
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA8C-827-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 8xLight Square PACKAGE
80CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34595.9 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G5

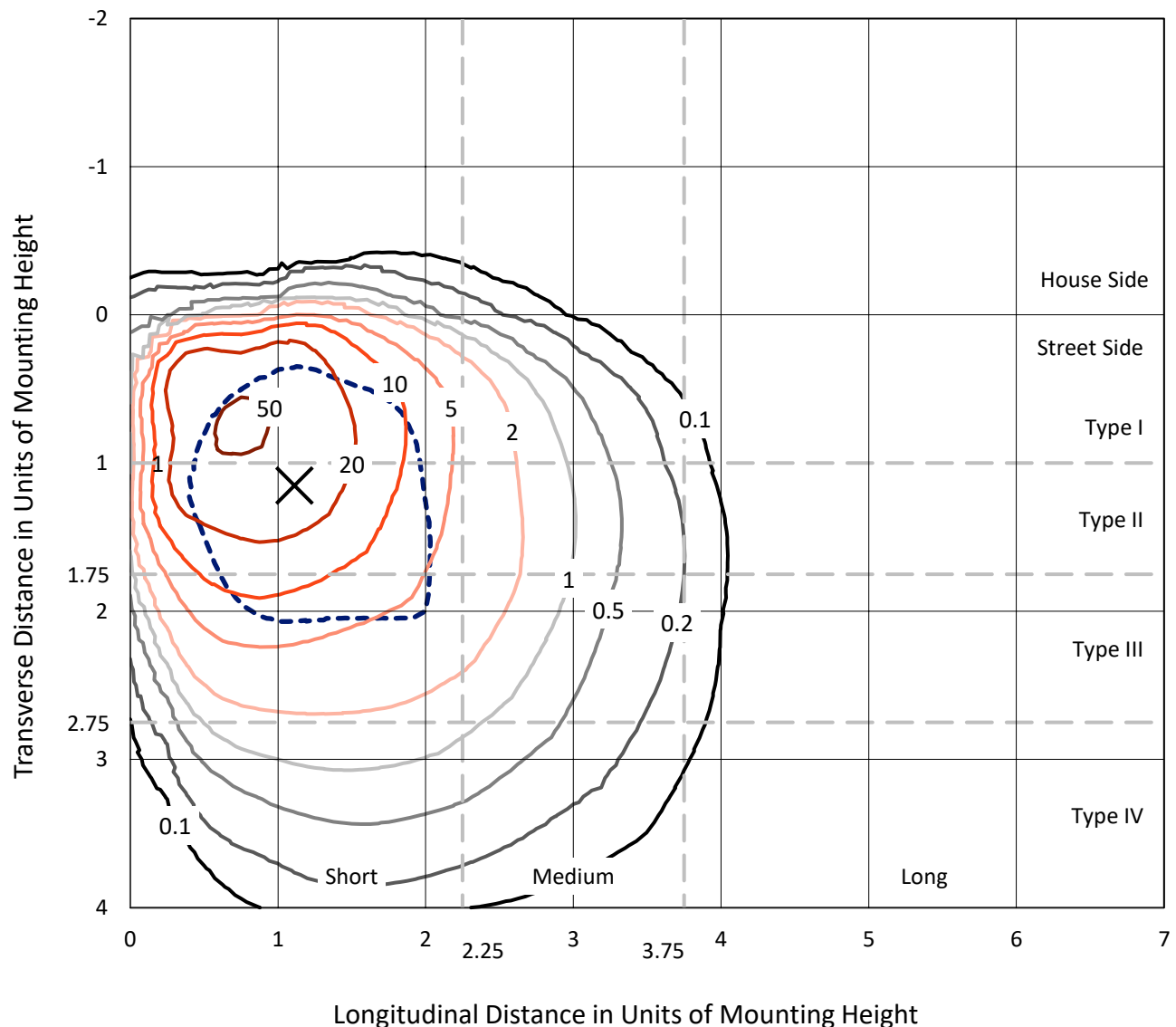
Input Watts (W): 372.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

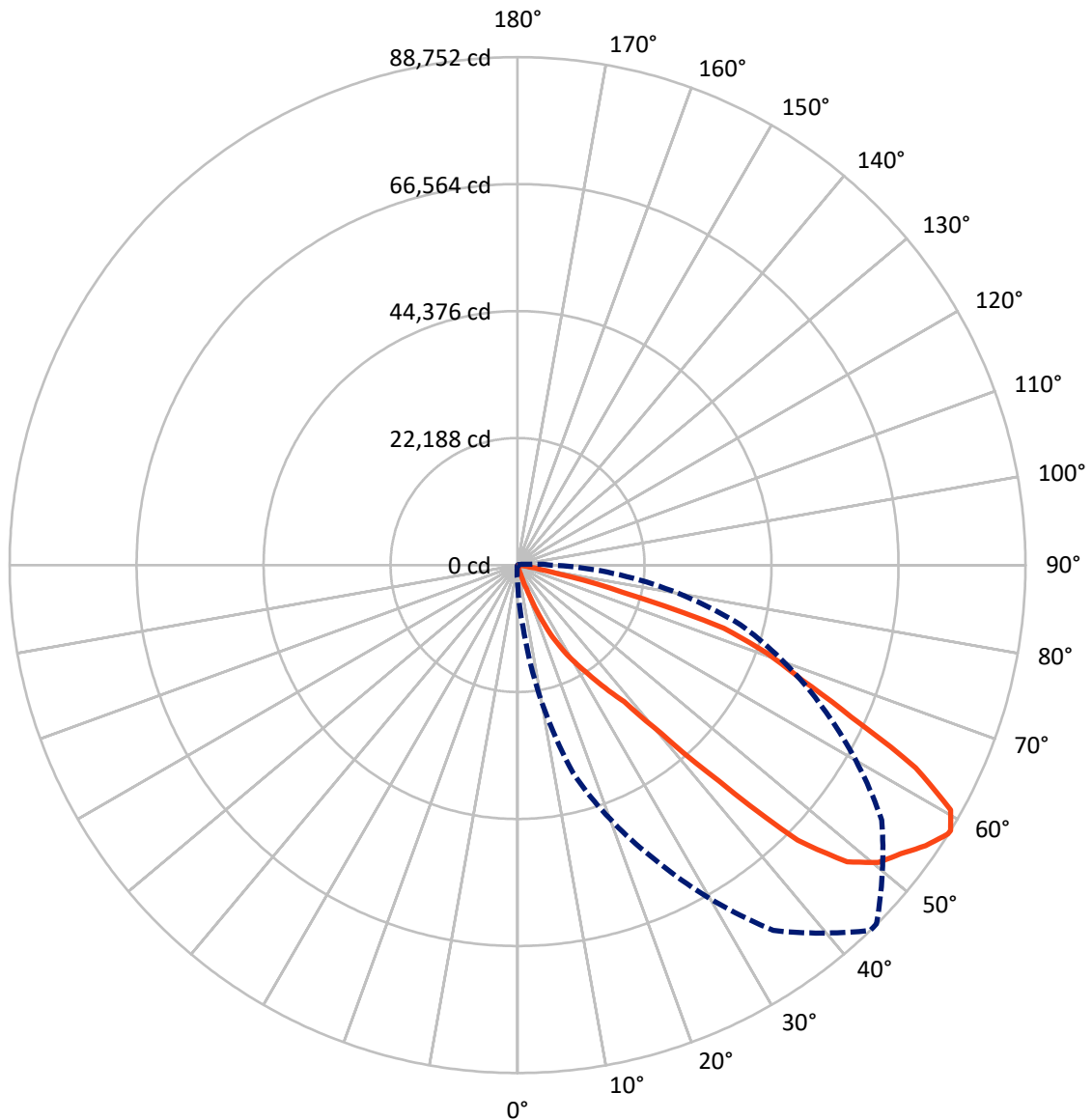
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 60.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	236.2	0.0	236.2
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	34359.7	0.0	34359.7
	% Fixture	99.3	0.0	99.3
Total	Lumens	34595.9	0.0	34595.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.5	0.0
10°-20°	75.9	0.2
20°-30°	819.6	2.4
30°-40°	2423.8	7.0
40°-50°	7224.2	20.9
50°-60°	11463.0	33.1
60°-70°	9561.5	27.6
70°-80°	2948.9	8.5
80°-90°	65.5	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°	34595.9	100.0
0°-180°	34595.9	100.0

Coefficient of Utilization



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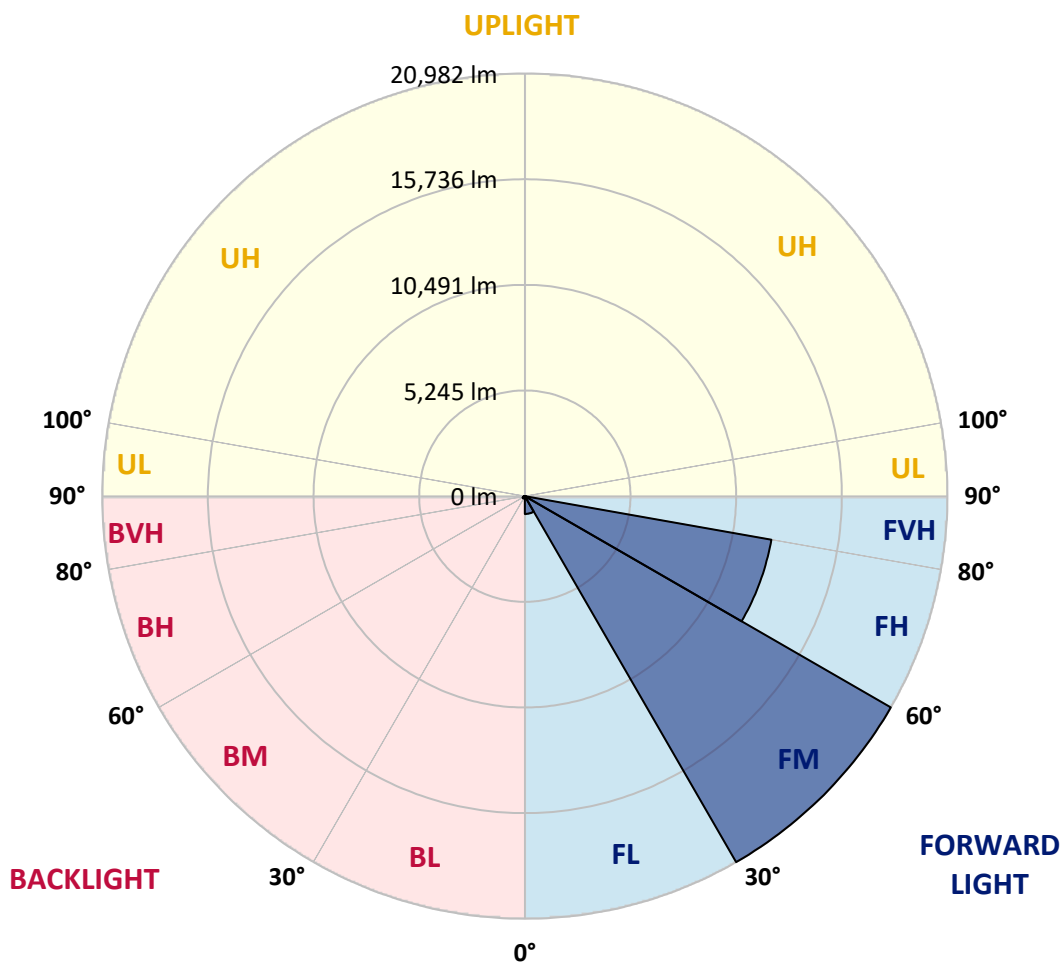
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	885.9	2.6			
FM	(30°-60°)	20981.7	60.6			
FH	(60°-80°)	12429.8	35.9			G5
FVH	(80°-90°)	62.3	0.2			G1/100
BL	(0°-30°)	23.1	0.1	B0/110		
BM	(30°-60°)	129.3	0.4	B0/220		
BH	(60°-80°)	80.7	0.2	B0/110		G0/110
BVH	(80°-90°)	3.2	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-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	151.6	151.6	151.6	151.6	151.6	151.6	151.6	151.6	151.6	151.6
2.5°	196.0	196.0	188.2	177.7	167.3	156.8	154.2	149.0	146.4	143.7
5°	203.8	203.8	201.2	193.4	182.9	175.1	175.1	167.3	162.0	156.8
7.5°	209.1	211.7	216.9	214.3	209.1	201.2	201.2	196.0	188.2	175.1
10°	216.9	224.8	235.2	240.4	243.0	243.0	240.4	237.8	224.8	206.5
12.5°	224.8	240.4	266.6	292.7	308.4	329.3	326.7	321.5	287.5	248.3
15°	240.4	264.0	318.8	394.6	512.2	585.4	614.2	588.0	475.6	334.5
17.5°	258.7	297.9	462.6	825.8	1353.8	1604.6	1756.2	1633.4	1082.0	635.1
20°	277.0	363.3	859.8	2140.4	3512.4	4333.1	4560.4	4205.0	2699.7	1210.0
22.5°	308.4	509.6	1743.2	4424.5	7568.5	8799.4	9032.0	7895.2	5098.8	2388.7
25°	373.7	739.6	3005.4	7210.5	11295.2	13372.9	13276.2	11786.6	8271.5	3815.6
27.5°	467.8	1076.7	4544.8	10244.6	14865.2	16697.2	16916.7	15074.3	11026.1	5611.0
30°	603.7	1492.3	6196.4	12675.1	17726.9	19707.9	19744.5	17839.3	13490.5	7186.9
32.5°	734.4	1884.3	7641.7	15024.6	20546.8	22718.5	22880.6	20536.3	15330.4	8828.2
35°	833.7	2140.4	9105.2	17089.2	23390.2	26382.6	26372.1	23588.8	17510.0	10294.3
37.5°	841.5	2396.5	10430.2	19200.9	26991.5	30341.9	30673.8	27605.7	20144.3	12108.0
40°	823.2	2684.0	12108.0	22493.8	33480.6	38621.3	38914.0	35046.1	25428.7	15212.8
42.5°	844.1	3183.2	14831.2	28575.2	44255.8	51638.8	52203.3	48136.8	35142.8	21547.7
45°	953.9	4121.4	20536.3	38749.3	59614.9	68615.6	68427.4	62570.7	46445.9	31191.3
47.5°	1317.2	6418.6	28993.4	48651.6	69431.0	77446.4	77608.4	70450.2	53042.2	38605.6
50°	2025.4	9821.3	36099.3	53886.3	73651.7	81693.2	81541.6	73270.1	55548.4	42256.5
52.5°	2634.3	12283.1	39664.0	55723.5	74192.7	83791.8	83781.3	74012.3	55937.8	42570.2
55°	2785.9	12468.7	39692.8	55822.9	75405.3	86538.5	86883.5	75839.1	56442.2	41200.7
57.5°	2725.8	11039.1	38035.9	56397.8	77564.0	88663.2	88681.5	77608.4	57722.8	40361.8
58°	2673.5	10814.4	37701.3	56724.5	77935.1	88752.1	88707.6	77689.4	58765.6	40330.4
60°	2380.8	9390.1	36397.2	57558.2	77383.7	86927.9	86512.4	75920.1	58611.4	40009.0
62.5°	1871.2	7325.4	35114.0	56593.8	71472.1	78097.1	78269.6	67214.8	53431.6	38135.2
65°	1489.7	5459.5	32437.9	49642.1	58854.4	64133.6	64776.5	54657.3	44598.2	32291.5
67.5°	1186.5	3946.3	27211.0	39522.9	46571.3	53525.7	53993.5	45889.2	34552.2	24741.3
70°	964.4	2668.3	18782.7	28904.5	38412.2	46231.6	46260.3	38122.1	25789.3	16211.1
72.5°	854.6	1847.7	10903.2	21079.9	31146.9	37672.6	36912.1	30935.2	19820.3	9601.7
75°	739.6	1225.7	5347.1	12886.8	18884.6	19012.7	19302.8	14350.3	9907.5	4565.7
77.5°	608.9	870.3	2106.4	3520.3	5663.3	7249.7	7518.8	5697.3	3295.5	1123.8
80°	418.1	412.9	567.1	1079.3	1620.3	2030.6	1894.7	1466.1	862.4	431.2
82.5°	180.3	196.0	256.1	308.4	250.9	243.0	232.6	149.0	115.0	88.9
85°	57.5	52.3	54.9	54.9	44.4	34.0	34.0	15.7	0.0	0.0
87.5°	28.7	23.5	23.5	20.9	13.1	5.2	2.6	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°
151.6	0°	151.6	151.6	151.6	151.6	151.6	151.6	151.6	151.6	151.6	151.6
141.1	2.5°	138.5	138.5	133.3	128.1	125.4	120.2	117.6	115.0	112.4	109.8
151.6	5°	146.4	143.7	135.9	128.1	120.2	112.4	107.2	101.9	96.7	94.1
167.3	7.5°	159.4	154.2	138.5	125.4	115.0	104.5	99.3	91.5	86.2	78.4
185.6	10°	175.1	164.6	143.7	128.1	112.4	99.3	91.5	83.6	75.8	65.3
211.7	12.5°	196.0	177.7	151.6	125.4	107.2	91.5	83.6	73.2	65.3	57.5
245.7	15°	214.3	190.8	154.2	125.4	101.9	83.6	73.2	62.7	54.9	44.4
308.4	17.5°	240.4	201.2	151.6	117.6	94.1	73.2	62.7	54.9	41.8	26.1
457.4	20°	284.9	209.1	146.4	109.8	81.0	60.1	47.0	36.6	18.3	5.2
687.3	22.5°	355.4	230.0	141.1	99.3	70.6	47.0	31.4	13.1	0.0	0.0
1045.4	25°	491.3	266.6	141.1	94.1	62.7	34.0	10.5	0.0	0.0	0.0
1484.4	27.5°	653.4	316.2	141.1	81.0	49.7	18.3	0.0	0.0	0.0	0.0
2022.8	30°	818.0	371.1	141.1	70.6	39.2	2.6	0.0	0.0	0.0	0.0
2490.6	32.5°	974.8	418.1	143.7	60.1	26.1	0.0	0.0	0.0	0.0	0.0
3138.7	35°	1134.2	426.0	141.1	52.3	15.7	0.0	0.0	0.0	0.0	0.0
3933.2	37.5°	1338.1	410.3	133.3	47.0	7.8	0.0	0.0	0.0	0.0	0.0
5174.6	40°	1646.5	418.1	125.4	44.4	2.6	0.0	0.0	0.0	0.0	0.0
7388.2	42.5°	2216.2	452.1	115.0	44.4	0.0	0.0	0.0	0.0	0.0	0.0
11768.3	45°	3831.3	606.3	104.5	47.0	0.0	0.0	0.0	0.0	0.0	0.0
17666.8	47.5°	6337.6	1089.8	101.9	47.0	0.0	0.0	0.0	0.0	0.0	0.0
21281.2	50°	8088.6	1372.1	107.2	49.7	0.0	0.0	0.0	0.0	0.0	0.0
21733.3	52.5°	8075.5	1528.9	112.4	52.3	10.5	0.0	0.0	0.0	0.0	0.0
20031.9	55°	7179.1	1557.6	120.2	57.5	34.0	0.0	0.0	0.0	0.0	0.0
17214.7	57.5°	6000.4	1421.7	138.5	70.6	62.7	0.0	0.0	0.0	0.0	0.0
16773.0	58°	5791.4	1359.0	143.7	73.2	67.9	0.0	0.0	0.0	0.0	0.0
14549.0	60°	4746.0	1108.1	182.9	91.5	91.5	0.0	0.0	0.0	0.0	0.0
11927.7	62.5°	3277.2	967.0	209.1	117.6	94.1	0.0	0.0	0.0	0.0	0.0
8794.2	65°	2318.1	872.9	227.4	125.4	75.8	0.0	0.0	0.0	0.0	0.0
6248.7	67.5°	1732.7	804.9	250.9	128.1	39.2	0.0	0.0	0.0	0.0	0.0
3920.1	70°	1327.6	755.3	308.4	135.9	10.5	0.0	0.0	0.0	0.0	0.0
2336.4	72.5°	1082.0	697.8	373.7	141.1	0.0	0.0	0.0	0.0	0.0	0.0
1400.8	75°	896.4	629.8	360.7	154.2	0.0	0.0	0.0	0.0	0.0	0.0
747.4	77.5°	595.9	488.7	329.3	154.2	0.0	0.0	0.0	0.0	0.0	0.0
266.6	80°	209.1	193.4	256.1	135.9	0.0	0.0	0.0	0.0	0.0	0.0
54.9	82.5°	31.4	26.1	36.6	47.0	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	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°
151.6	0°	151.6	151.6	151.6	151.6	151.6	151.6	151.6	151.6	151.6	151.6
107.2	2.5°	107.2	107.2	104.5	107.2	107.2	112.4	125.4	143.7	164.6	172.5
91.5	5°	88.9	86.2	83.6	83.6	83.6	91.5	101.9	122.8	146.4	156.8
75.8	7.5°	73.2	70.6	67.9	65.3	65.3	70.6	83.6	107.2	130.7	141.1
62.7	10°	60.1	54.9	52.3	49.7	49.7	54.9	67.9	91.5	117.6	128.1
52.3	12.5°	49.7	41.8	36.6	34.0	31.4	39.2	52.3	73.2	101.9	115.0
39.2	15°	34.0	26.1	18.3	15.7	13.1	20.9	34.0	57.5	86.2	101.9
20.9	17.5°	18.3	7.8	2.6	0.0	0.0	5.2	15.7	41.8	70.6	83.6
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.9	52.3	65.3
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	31.4	44.4
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.1	23.5
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2
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	7.8
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.5	20.9
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°
151.6	0°	151.6	151.6	151.6	151.6	151.6	151.6	151.6	151.6	151.6	151.6
180.3	2.5°	185.6	182.9	177.7	172.5	172.5	172.5	180.3	188.2	196.0	196.0
162.0	5°	172.5	172.5	169.9	164.6	164.6	167.3	177.7	190.8	201.2	203.8
149.0	7.5°	159.4	164.6	159.4	156.8	159.4	162.0	172.5	188.2	203.8	209.1
138.5	10°	151.6	154.2	154.2	151.6	151.6	156.8	167.3	188.2	209.1	216.9
125.4	12.5°	141.1	146.4	143.7	143.7	143.7	149.0	162.0	185.6	214.3	224.8
112.4	15°	130.7	138.5	138.5	135.9	135.9	138.5	156.8	182.9	222.1	240.4
96.7	17.5°	120.2	128.1	130.7	125.4	125.4	130.7	149.0	182.9	227.4	258.7
78.4	20°	99.3	112.4	120.2	112.4	112.4	117.6	135.9	172.5	230.0	277.0
57.5	22.5°	78.4	91.5	101.9	99.3	99.3	101.9	125.4	164.6	232.6	308.4
34.0	25°	57.5	70.6	78.4	83.6	83.6	91.5	115.0	159.4	243.0	373.7
15.7	27.5°	34.0	49.7	60.1	65.3	67.9	78.4	107.2	154.2	261.3	467.8
0.0	30°	15.7	28.7	41.8	52.3	52.3	70.6	99.3	149.0	284.9	603.7
0.0	32.5°	0.0	13.1	20.9	36.6	39.2	57.5	91.5	143.7	318.8	734.4
0.0	35°	0.0	0.0	10.5	28.7	28.7	47.0	83.6	138.5	371.1	833.7
0.0	37.5°	0.0	0.0	0.0	20.9	23.5	41.8	81.0	135.9	381.6	841.5
0.0	40°	0.0	0.0	0.0	15.7	18.3	39.2	81.0	138.5	345.0	823.2
0.0	42.5°	0.0	0.0	0.0	10.5	13.1	39.2	81.0	143.7	311.0	844.1
0.0	45°	0.0	0.0	0.0	7.8	10.5	41.8	78.4	141.1	292.7	953.9
0.0	47.5°	0.0	0.0	0.0	10.5	15.7	41.8	75.8	138.5	295.3	1317.2
0.0	50°	0.0	0.0	0.0	13.1	18.3	41.8	78.4	133.3	324.1	2025.4
0.0	52.5°	0.0	0.0	0.0	10.5	15.7	47.0	86.2	130.7	352.8	2634.3
0.0	55°	0.0	0.0	0.0	2.6	7.8	60.1	94.1	130.7	397.2	2785.9
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	67.9	107.2	138.5	470.4	2725.8
0.0	58°	0.0	0.0	0.0	0.0	0.0	67.9	109.8	138.5	475.6	2673.5
0.0	60°	0.0	0.0	0.0	0.0	0.0	67.9	120.2	154.2	512.2	2380.8
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	57.5	143.7	193.4	533.1	1871.2
0.0	65°	0.0	0.0	0.0	0.0	0.0	47.0	169.9	211.7	548.8	1489.7
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	44.4	175.1	214.3	556.7	1186.5
0.0	70°	0.0	0.0	0.0	0.0	0.0	47.0	172.5	230.0	582.8	964.4
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	52.3	156.8	253.5	582.8	854.6
0.0	75°	0.0	0.0	0.0	0.0	0.0	54.9	146.4	284.9	530.5	739.6
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	52.3	143.7	331.9	473.0	608.9
0.0	80°	5.2	7.8	7.8	5.2	5.2	44.4	141.1	337.1	402.5	418.1
2.6	82.5°	15.7	20.9	18.3	13.1	13.1	39.2	125.4	282.3	209.1	180.3
15.7	85°	28.7	34.0	34.0	28.7	28.7	36.6	78.4	101.9	70.6	57.5
28.7	87.5°	39.2	44.4	44.4	39.2	39.2	36.6	34.0	31.4	28.7	28.7
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

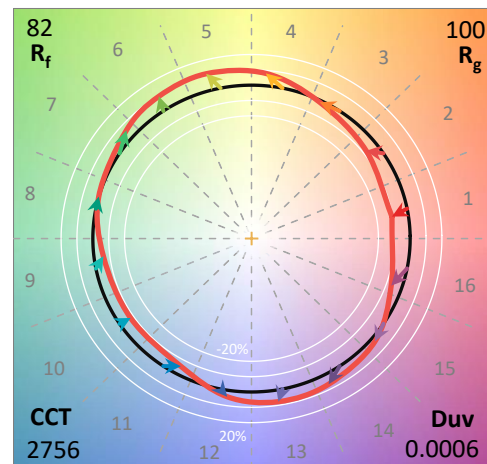
Test Information

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
 Rf: 82.2
 Rg: 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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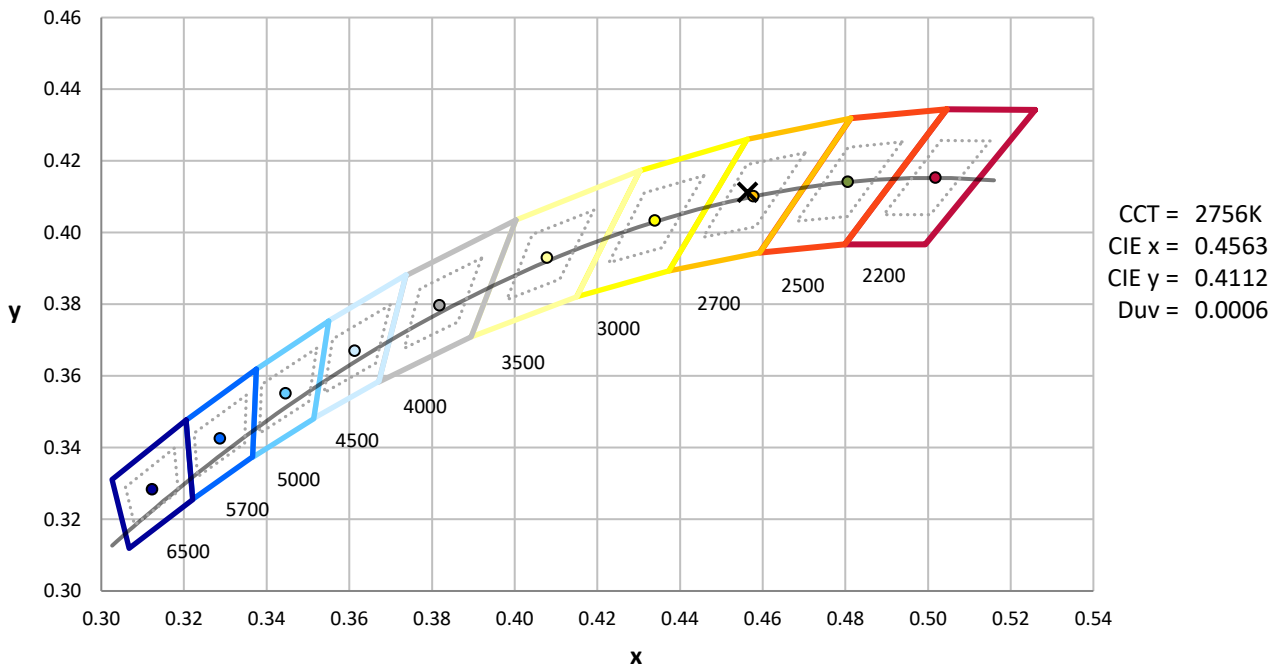
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	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 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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Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.2

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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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			

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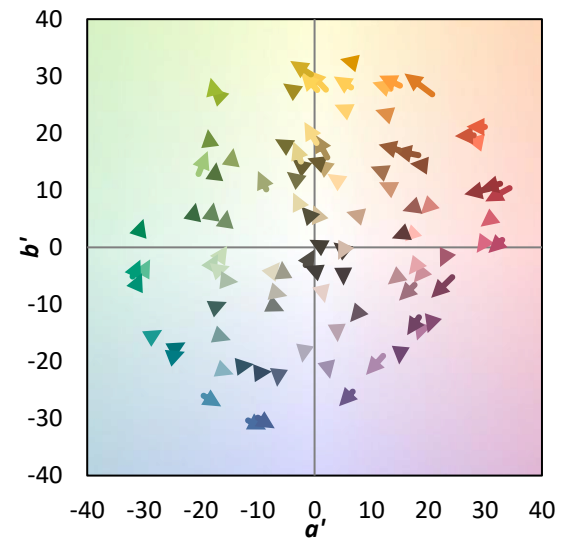
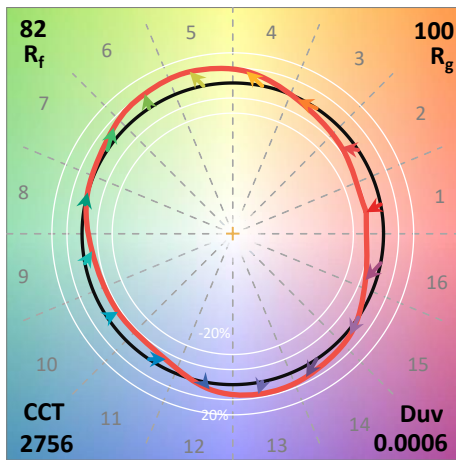
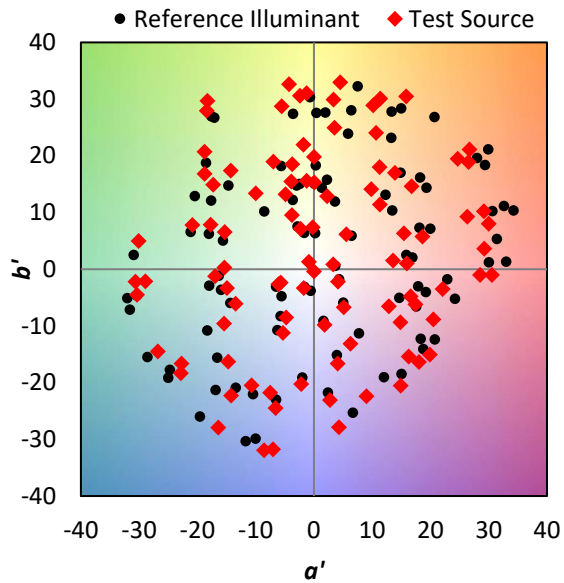
TM-30-18

Summary

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

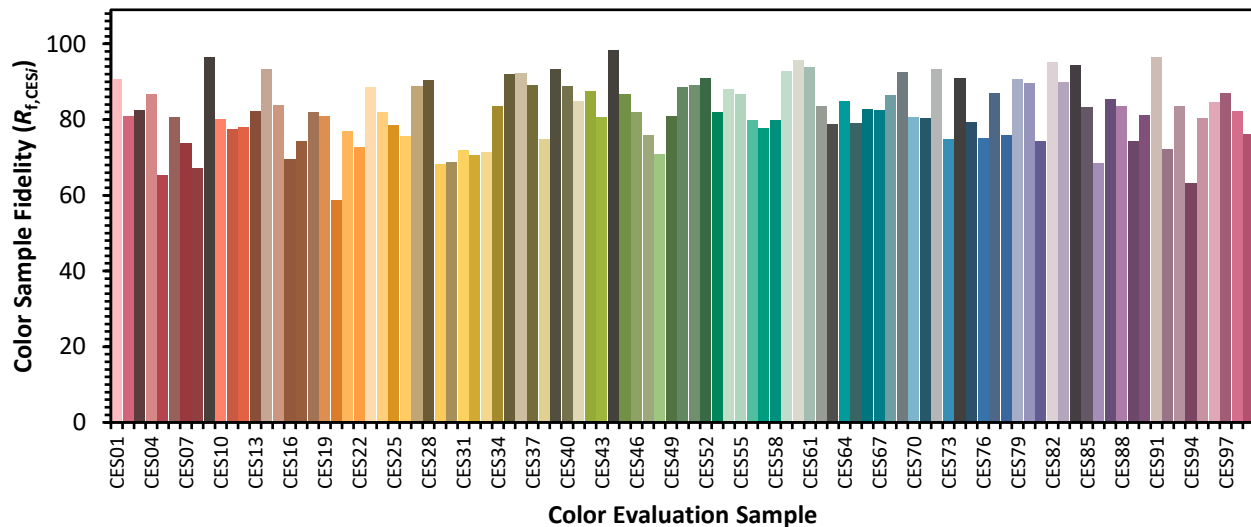


Color Vector Graphics

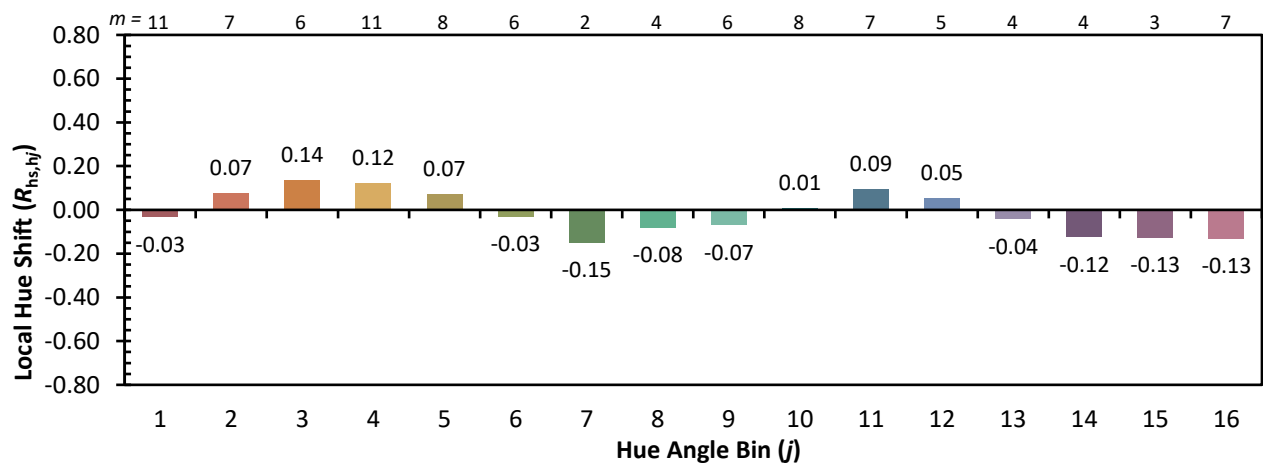


Individual Sample Fidelity Index ($R_{f,i}$)

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)