

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: McGRAW-EDISON

Report Number: P1049742

Luminaire Tested: **GALN-SA8B-827-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049742
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8B-827-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 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: 28033.6 lumens
Efficiency: N/A
Efficacy: 99.1 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

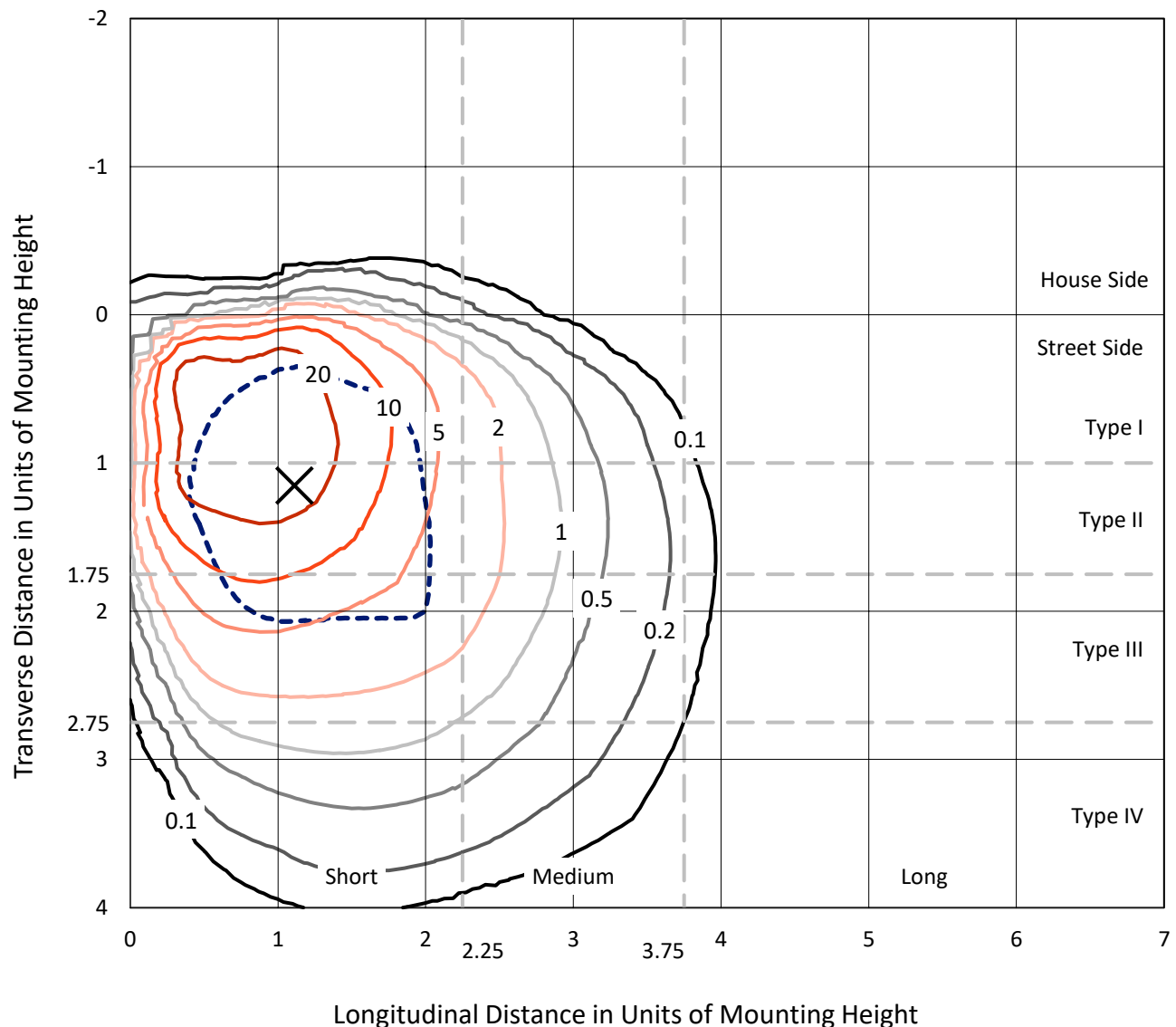
Input Watts (W): 282.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

REPORT NUMBER: P1049742

CATALOG NUMBER: GALN-SA8B-827-U-LBC

Iso-Footcandle Lines of Horizontal Illumination

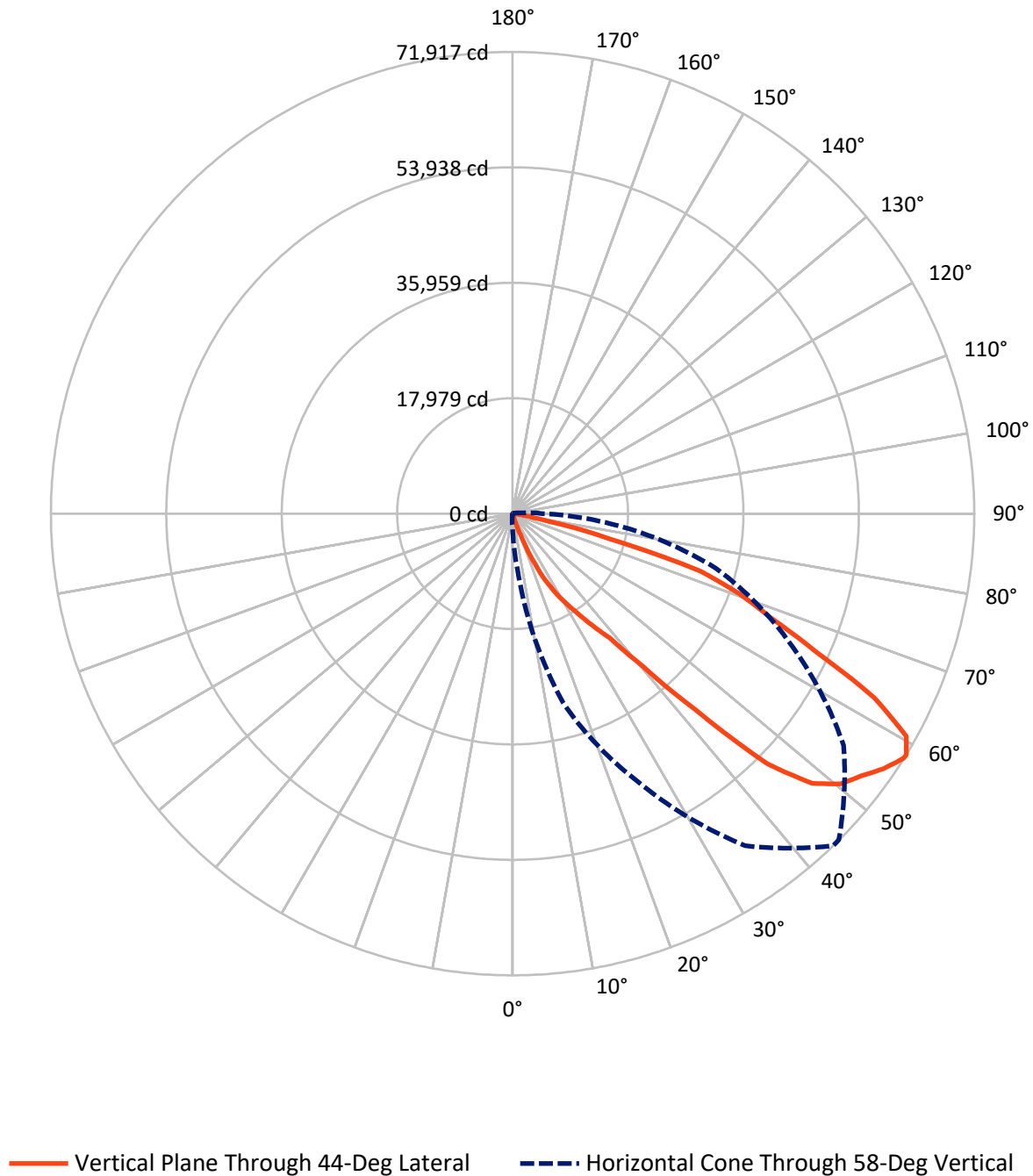
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 48.8 fc
 Type III - Short - N/A

REPORT NUMBER: P1049742
CATALOG NUMBER: GALN-SA8B-827-U-LBC

Luminous Intensity Polar Plot



REPORT NUMBER: P1049742

CATALOG NUMBER: GALN-SA8B-827-U-LBC

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	191.4	0.0	191.4
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	27842.2	0.0	27842.2
	% Fixture	99.3	0.0	99.3
Total	Lumens	28033.6	0.0	28033.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.0	0.0
10°-20°	61.5	0.2
20°-30°	664.1	2.4
30°-40°	1964.0	7.0
40°-50°	5853.9	20.9
50°-60°	9288.7	33.1
60°-70°	7747.8	27.6
70°-80°	2389.6	8.5
80°-90°	53.1	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°	28033.6	100.0
0°-180°	28033.6	100.0



REPORT NUMBER: P1049742

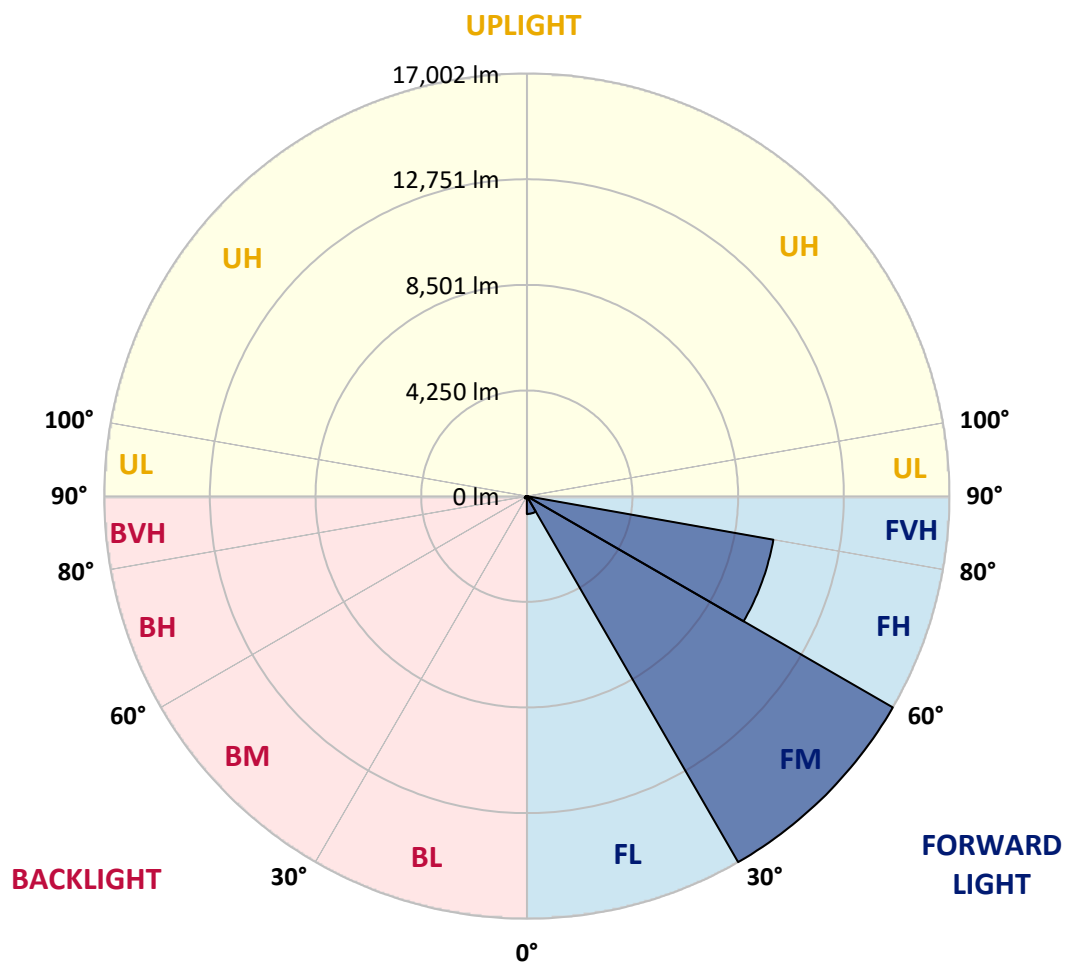
CATALOG NUMBER: GALN-SA8B-827-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	717.8	2.6			
FM	(30°-60°)	17001.8	60.6			
FH	(60°-80°)	10072.1	35.9			G4/12000
FVH	(80°-90°)	50.5	0.2			G1/100
BL	(0°-30°)	18.7	0.1	B0/110		
BM	(30°-60°)	104.8	0.4	B0/220		
BH	(60°-80°)	65.3	0.2	B0/110		G0/110
BVH	(80°-90°)	2.6	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



REPORT NUMBER: P1049742

CATALOG NUMBER: GALN-SA8B-827-U-LBC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	122.8	122.8	122.8	122.8	122.8	122.8	122.8	122.8	122.8	122.8
2.5°	158.8	158.8	152.5	144.0	135.5	127.1	124.9	120.7	118.6	116.5
5°	165.2	165.2	163.1	156.7	148.2	141.9	141.9	135.5	131.3	127.1
7.5°	169.4	171.5	175.8	173.7	169.4	163.1	163.1	158.8	152.5	141.9
10°	175.8	182.1	190.6	194.8	196.9	196.9	194.8	192.7	182.1	167.3
12.5°	182.1	194.8	216.0	237.2	249.9	266.8	264.7	260.5	232.9	201.2
15°	194.8	213.9	258.4	319.8	415.1	474.4	497.7	476.5	385.4	271.1
17.5°	209.7	241.4	374.8	669.2	1097.0	1300.3	1423.1	1323.6	876.7	514.6
20°	224.5	294.4	696.7	1734.4	2846.2	3511.1	3695.4	3407.4	2187.6	980.5
22.5°	249.9	413.0	1412.5	3585.3	6132.9	7130.3	7318.8	6397.6	4131.6	1935.6
25°	302.8	599.3	2435.4	5842.7	9152.7	10836.3	10757.9	9550.8	6702.5	3091.8
27.5°	379.1	872.5	3682.7	8301.4	12045.5	13530.0	13707.9	12214.9	8934.6	4546.7
30°	489.2	1209.2	5021.1	10270.8	14364.3	15969.6	15999.2	14455.4	10931.6	5823.7
32.5°	595.1	1526.9	6192.1	12174.6	16649.3	18409.2	18540.4	16640.9	12422.4	7153.6
35°	675.5	1734.4	7378.1	13847.6	18953.4	21378.2	21369.7	19114.3	14188.6	8341.6
37.5°	681.9	1941.9	8451.7	15558.7	21871.6	24586.5	24855.4	22369.2	16323.2	9811.3
40°	667.1	2174.9	9811.3	18227.0	27129.8	31295.3	31532.5	28398.3	20605.2	12327.1
42.5°	684.0	2579.4	12017.9	23154.9	35861.1	41843.6	42301.0	39005.9	28476.7	17460.4
45°	773.0	3339.6	16640.9	31399.1	48306.8	55600.2	55447.7	50701.9	37635.7	25274.7
47.5°	1067.3	5201.1	23493.7	39423.1	56260.9	62755.9	62887.2	57086.8	42980.8	31282.6
50°	1641.2	7958.3	29251.8	43664.8	59681.0	66197.1	66074.3	59371.8	45011.7	34241.1
52.5°	2134.6	9953.2	32140.3	45153.6	60119.3	67897.6	67889.2	59973.2	45327.2	34495.2
55°	2257.5	10103.5	32163.6	45234.0	61101.9	70123.3	70402.9	61453.5	45735.9	33385.5
57.5°	2208.8	8945.2	30821.0	45699.9	62851.2	71845.0	71859.9	62887.2	46773.6	32705.7
58°	2166.4	8763.0	30549.9	45964.6	63151.9	71917.0	71881.0	62952.8	47618.6	32680.3
60°	1929.2	7608.9	29493.2	46640.2	62705.0	70438.9	70102.2	61519.1	47493.6	32419.8
62.5°	1516.3	5935.9	28453.4	45858.8	57914.8	63283.2	63422.9	54465.1	43296.3	30901.5
65°	1207.1	4423.9	26284.9	40225.7	47690.6	51968.3	52489.3	44289.5	36138.5	26166.3
67.5°	961.4	3197.7	22049.5	32026.0	37737.4	43372.6	43751.6	37184.7	27998.1	20048.2
70°	781.4	2162.2	15219.9	23421.7	31125.9	37462.1	37485.4	30890.9	20897.4	13136.1
72.5°	692.5	1497.2	8835.0	17081.4	25238.7	30526.6	29910.4	25067.2	16060.6	7780.4
75°	599.3	993.2	4332.8	10442.4	15302.5	15406.3	15641.3	11628.3	8028.2	3699.6
77.5°	493.4	705.2	1706.9	2852.5	4589.1	5874.5	6092.6	4616.6	2670.4	910.6
80°	338.8	334.6	459.5	874.6	1313.0	1645.5	1535.3	1188.0	698.8	349.4
82.5°	146.1	158.8	207.5	249.9	203.3	196.9	188.5	120.7	93.2	72.0
85°	46.6	42.4	44.5	44.5	36.0	27.5	27.5	12.7	0.0	0.0
87.5°	23.3	19.1	19.1	16.9	10.6	4.2	2.1	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



REPORT NUMBER: P1049742

CATALOG NUMBER: GALN-SA8B-827-U-LBC

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
122.8	0°	122.8	122.8	122.8	122.8	122.8	122.8	122.8	122.8	122.8	122.8
114.4	2.5°	112.2	112.2	108.0	103.8	101.6	97.4	95.3	93.2	91.1	88.9
122.8	5°	118.6	116.5	110.1	103.8	97.4	91.1	86.8	82.6	78.4	76.2
135.5	7.5°	129.2	124.9	112.2	101.6	93.2	84.7	80.5	74.1	69.9	63.5
150.4	10°	141.9	133.4	116.5	103.8	91.1	80.5	74.1	67.8	61.4	52.9
171.5	12.5°	158.8	144.0	122.8	101.6	86.8	74.1	67.8	59.3	52.9	46.6
199.1	15°	173.7	154.6	124.9	101.6	82.6	67.8	59.3	50.8	44.5	36.0
249.9	17.5°	194.8	163.1	122.8	95.3	76.2	59.3	50.8	44.5	33.9	21.2
370.6	20°	230.8	169.4	118.6	88.9	65.6	48.7	38.1	29.6	14.8	4.2
557.0	22.5°	288.0	186.4	114.4	80.5	57.2	38.1	25.4	10.6	0.0	0.0
847.1	25°	398.1	216.0	114.4	76.2	50.8	27.5	8.5	0.0	0.0	0.0
1202.9	27.5°	529.4	256.2	114.4	65.6	40.2	14.8	0.0	0.0	0.0	0.0
1639.1	30°	662.8	300.7	114.4	57.2	31.8	2.1	0.0	0.0	0.0	0.0
2018.2	32.5°	789.9	338.8	116.5	48.7	21.2	0.0	0.0	0.0	0.0	0.0
2543.4	35°	919.1	345.2	114.4	42.4	12.7	0.0	0.0	0.0	0.0	0.0
3187.1	37.5°	1084.3	332.5	108.0	38.1	6.4	0.0	0.0	0.0	0.0	0.0
4193.0	40°	1334.1	338.8	101.6	36.0	2.1	0.0	0.0	0.0	0.0	0.0
5986.7	42.5°	1795.8	366.4	93.2	36.0	0.0	0.0	0.0	0.0	0.0	0.0
9536.0	45°	3104.5	491.3	84.7	38.1	0.0	0.0	0.0	0.0	0.0	0.0
14315.6	47.5°	5135.4	883.1	82.6	38.1	0.0	0.0	0.0	0.0	0.0	0.0
17244.4	50°	6554.3	1111.8	86.8	40.2	0.0	0.0	0.0	0.0	0.0	0.0
17610.8	52.5°	6543.7	1238.9	91.1	42.4	8.5	0.0	0.0	0.0	0.0	0.0
16232.2	55°	5817.3	1262.1	97.4	46.6	27.5	0.0	0.0	0.0	0.0	0.0
13949.3	57.5°	4862.2	1152.0	112.2	57.2	50.8	0.0	0.0	0.0	0.0	0.0
13591.4	58°	4692.8	1101.2	116.5	59.3	55.1	0.0	0.0	0.0	0.0	0.0
11789.2	60°	3845.7	897.9	148.2	74.1	74.1	0.0	0.0	0.0	0.0	0.0
9665.2	62.5°	2655.6	783.5	169.4	95.3	76.2	0.0	0.0	0.0	0.0	0.0
7126.1	65°	1878.4	707.3	184.2	101.6	61.4	0.0	0.0	0.0	0.0	0.0
5063.4	67.5°	1404.0	652.3	203.3	103.8	31.8	0.0	0.0	0.0	0.0	0.0
3176.5	70°	1075.8	612.0	249.9	110.1	8.5	0.0	0.0	0.0	0.0	0.0
1893.2	72.5°	876.7	565.4	302.8	114.4	0.0	0.0	0.0	0.0	0.0	0.0
1135.1	75°	726.4	510.4	292.2	124.9	0.0	0.0	0.0	0.0	0.0	0.0
605.7	77.5°	482.8	396.0	266.8	124.9	0.0	0.0	0.0	0.0	0.0	0.0
216.0	80°	169.4	156.7	207.5	110.1	0.0	0.0	0.0	0.0	0.0	0.0
44.5	82.5°	25.4	21.2	29.6	38.1	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

REPORT NUMBER: P1049742

CATALOG NUMBER: GALN-SA8B-827-U-LBC

CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
122.8	0°	122.8	122.8	122.8	122.8	122.8	122.8	122.8	122.8	122.8	122.8
86.8	2.5°	86.8	86.8	84.7	86.8	86.8	91.1	101.6	116.5	133.4	139.8
74.1	5°	72.0	69.9	67.8	67.8	67.8	74.1	82.6	99.5	118.6	127.1
61.4	7.5°	59.3	57.2	55.1	52.9	52.9	57.2	67.8	86.8	105.9	114.4
50.8	10°	48.7	44.5	42.4	40.2	40.2	44.5	55.1	74.1	95.3	103.8
42.4	12.5°	40.2	33.9	29.6	27.5	25.4	31.8	42.4	59.3	82.6	93.2
31.8	15°	27.5	21.2	14.8	12.7	10.6	16.9	27.5	46.6	69.9	82.6
16.9	17.5°	14.8	6.4	2.1	0.0	0.0	4.2	12.7	33.9	57.2	67.8
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.9	42.4	52.9
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	25.4	36.0
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.6	19.1
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
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	6.4
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5	16.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1049742

CATALOG NUMBER: GALN-SA8B-827-U-LBC

CANDELA DISTRIBUTION (continued):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
122.8	0°	122.8	122.8	122.8	122.8	122.8	122.8	122.8	122.8	122.8	122.8
146.1	2.5°	150.4	148.2	144.0	139.8	139.8	139.8	146.1	152.5	158.8	158.8
131.3	5°	139.8	139.8	137.7	133.4	133.4	135.5	144.0	154.6	163.1	165.2
120.7	7.5°	129.2	133.4	129.2	127.1	129.2	131.3	139.8	152.5	165.2	169.4
112.2	10°	122.8	124.9	124.9	122.8	122.8	127.1	135.5	152.5	169.4	175.8
101.6	12.5°	114.4	118.6	116.5	116.5	116.5	120.7	131.3	150.4	173.7	182.1
91.1	15°	105.9	112.2	112.2	110.1	110.1	112.2	127.1	148.2	180.0	194.8
78.4	17.5°	97.4	103.8	105.9	101.6	101.6	105.9	120.7	148.2	184.2	209.7
63.5	20°	80.5	91.1	97.4	91.1	91.1	95.3	110.1	139.8	186.4	224.5
46.6	22.5°	63.5	74.1	82.6	80.5	80.5	82.6	101.6	133.4	188.5	249.9
27.5	25°	46.6	57.2	63.5	67.8	67.8	74.1	93.2	129.2	196.9	302.8
12.7	27.5°	27.5	40.2	48.7	52.9	55.1	63.5	86.8	124.9	211.8	379.1
0.0	30°	12.7	23.3	33.9	42.4	42.4	57.2	80.5	120.7	230.8	489.2
0.0	32.5°	0.0	10.6	16.9	29.6	31.8	46.6	74.1	116.5	258.4	595.1
0.0	35°	0.0	0.0	8.5	23.3	23.3	38.1	67.8	112.2	300.7	675.5
0.0	37.5°	0.0	0.0	0.0	16.9	19.1	33.9	65.6	110.1	309.2	681.9
0.0	40°	0.0	0.0	0.0	12.7	14.8	31.8	65.6	112.2	279.5	667.1
0.0	42.5°	0.0	0.0	0.0	8.5	10.6	31.8	65.6	116.5	252.0	684.0
0.0	45°	0.0	0.0	0.0	6.4	8.5	33.9	63.5	114.4	237.2	773.0
0.0	47.5°	0.0	0.0	0.0	8.5	12.7	33.9	61.4	112.2	239.3	1067.3
0.0	50°	0.0	0.0	0.0	10.6	14.8	33.9	63.5	108.0	262.6	1641.2
0.0	52.5°	0.0	0.0	0.0	8.5	12.7	38.1	69.9	105.9	285.9	2134.6
0.0	55°	0.0	0.0	0.0	2.1	6.4	48.7	76.2	105.9	321.9	2257.5
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	55.1	86.8	112.2	381.2	2208.8
0.0	58°	0.0	0.0	0.0	0.0	0.0	55.1	88.9	112.2	385.4	2166.4
0.0	60°	0.0	0.0	0.0	0.0	0.0	55.1	97.4	124.9	415.1	1929.2
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	46.6	116.5	156.7	432.0	1516.3
0.0	65°	0.0	0.0	0.0	0.0	0.0	38.1	137.7	171.5	444.7	1207.1
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	36.0	141.9	173.7	451.1	961.4
0.0	70°	0.0	0.0	0.0	0.0	0.0	38.1	139.8	186.4	472.2	781.4
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	42.4	127.1	205.4	472.2	692.5
0.0	75°	0.0	0.0	0.0	0.0	0.0	44.5	118.6	230.8	429.9	599.3
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	42.4	116.5	268.9	383.3	493.4
0.0	80°	4.2	6.4	6.4	4.2	4.2	36.0	114.4	273.2	326.1	338.8
2.1	82.5°	12.7	16.9	14.8	10.6	10.6	31.8	101.6	228.7	169.4	146.1
12.7	85°	23.3	27.5	27.5	23.3	23.3	29.6	63.5	82.6	57.2	46.6
23.3	87.5°	31.8	36.0	36.0	31.8	31.8	29.6	27.5	25.4	23.3	23.3
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



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

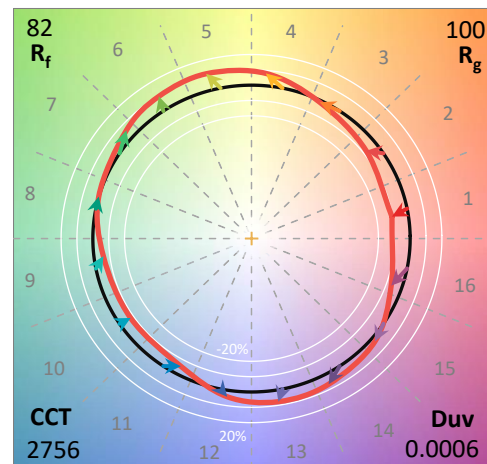
Test Information

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

REPORT NUMBER: SP1-2407-184-8

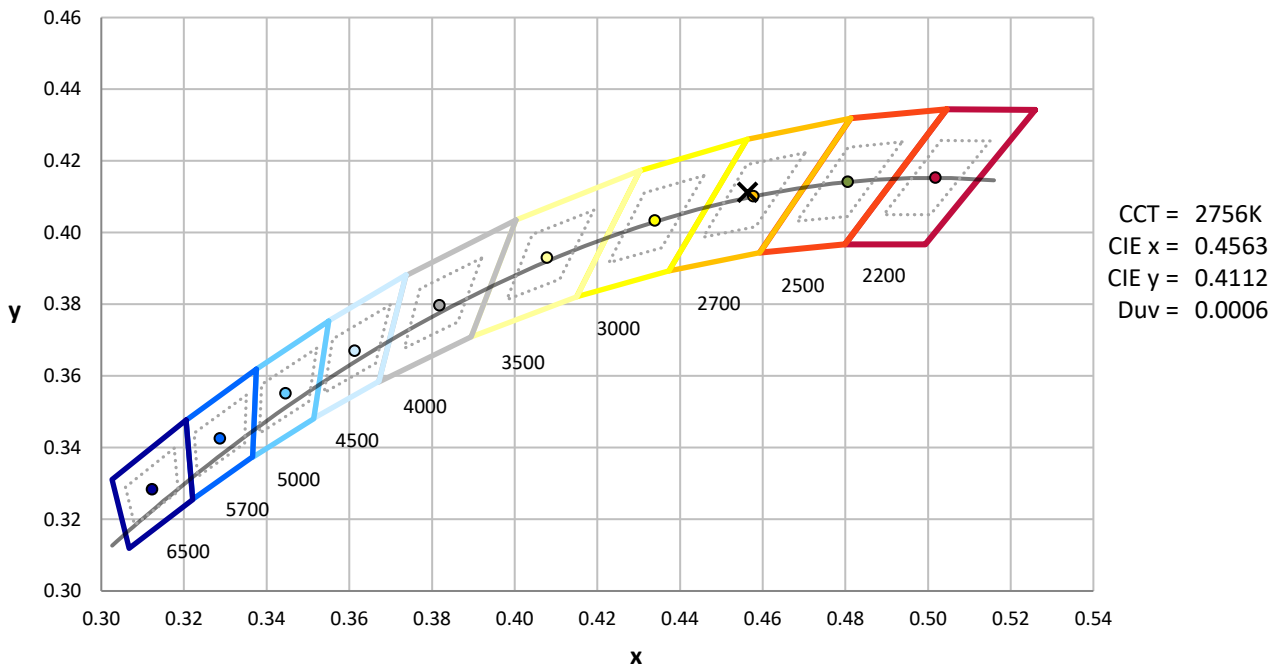
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-8

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

REPORT NUMBER: SP1-2407-184-8

Photopic Flux vs. Wavelength



Photopic Lumens: NR

λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /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

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			

REPORT NUMBER: SP1-2407-184-8

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

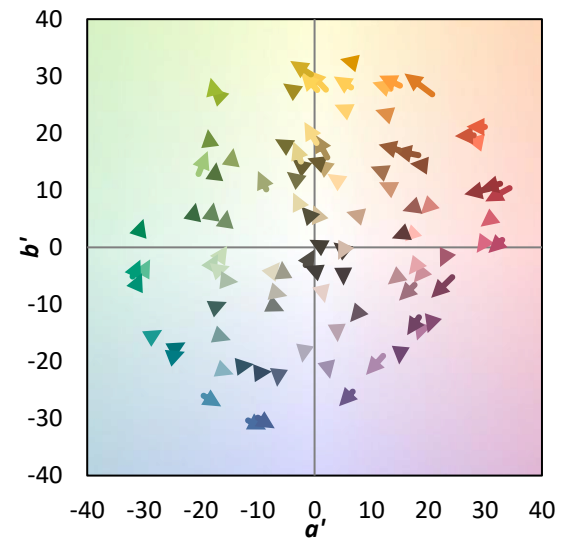
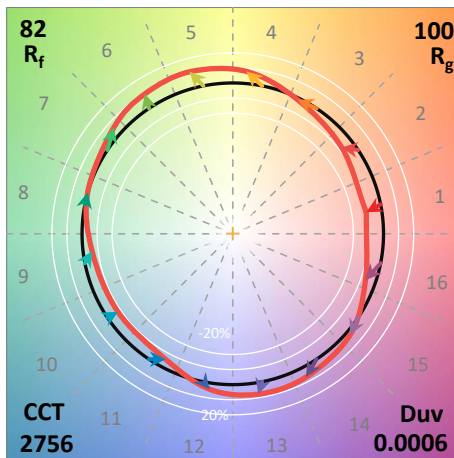
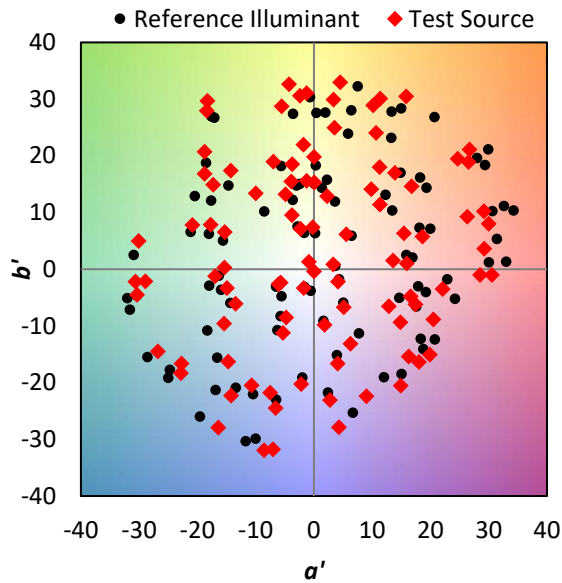
TM-30-18

Summary

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

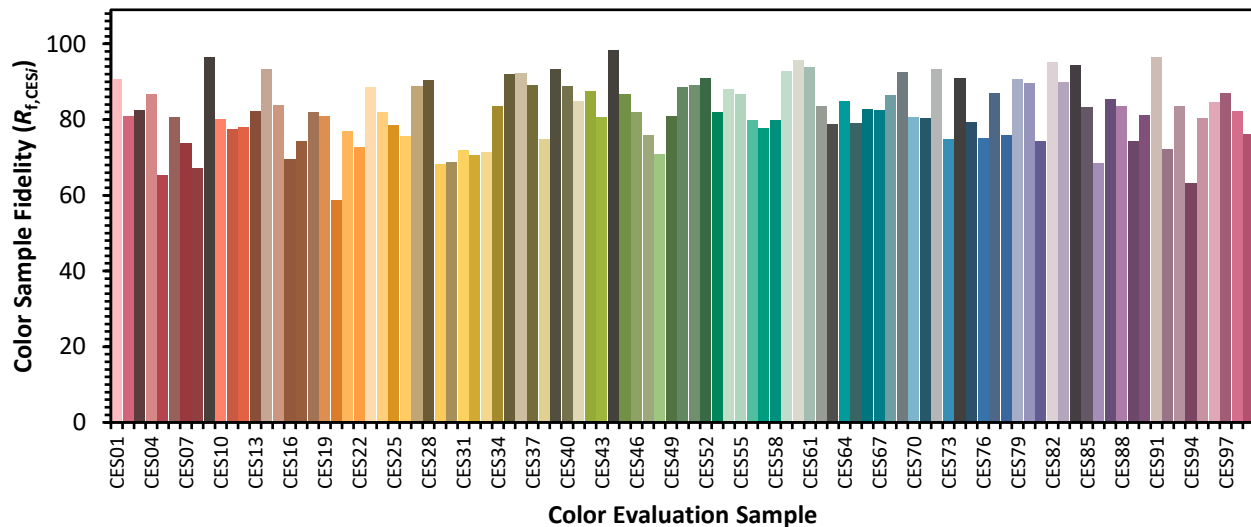


Color Vector Graphics

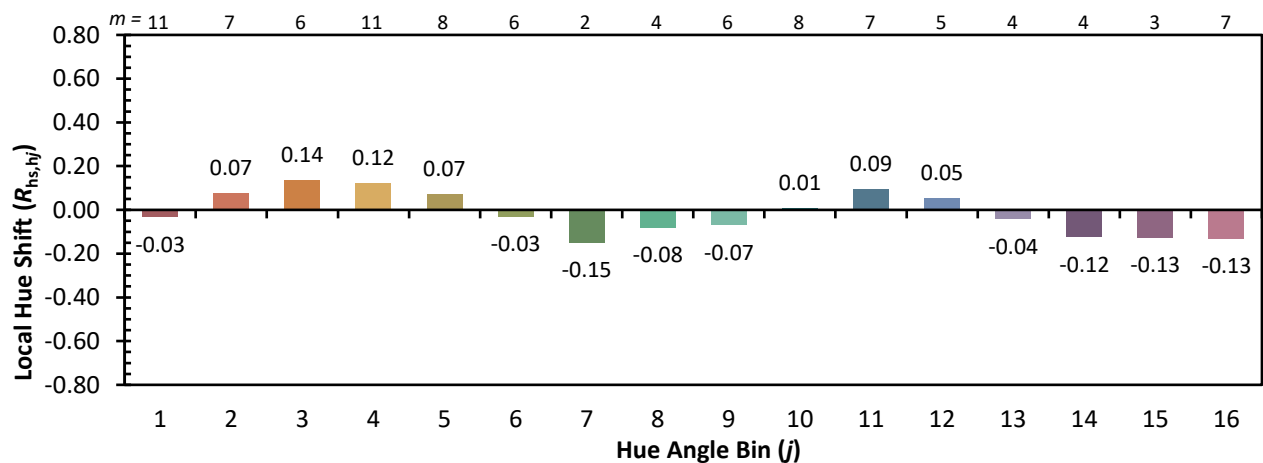


Individual Sample Fidelity Index ($R_{f,i}$)

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)