

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: P1049546

Luminaire Tested: **GALN-SA4B-727-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049546
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-727-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 4xLight Square PACKAGE
70CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (56) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14935.2 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 144.1
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

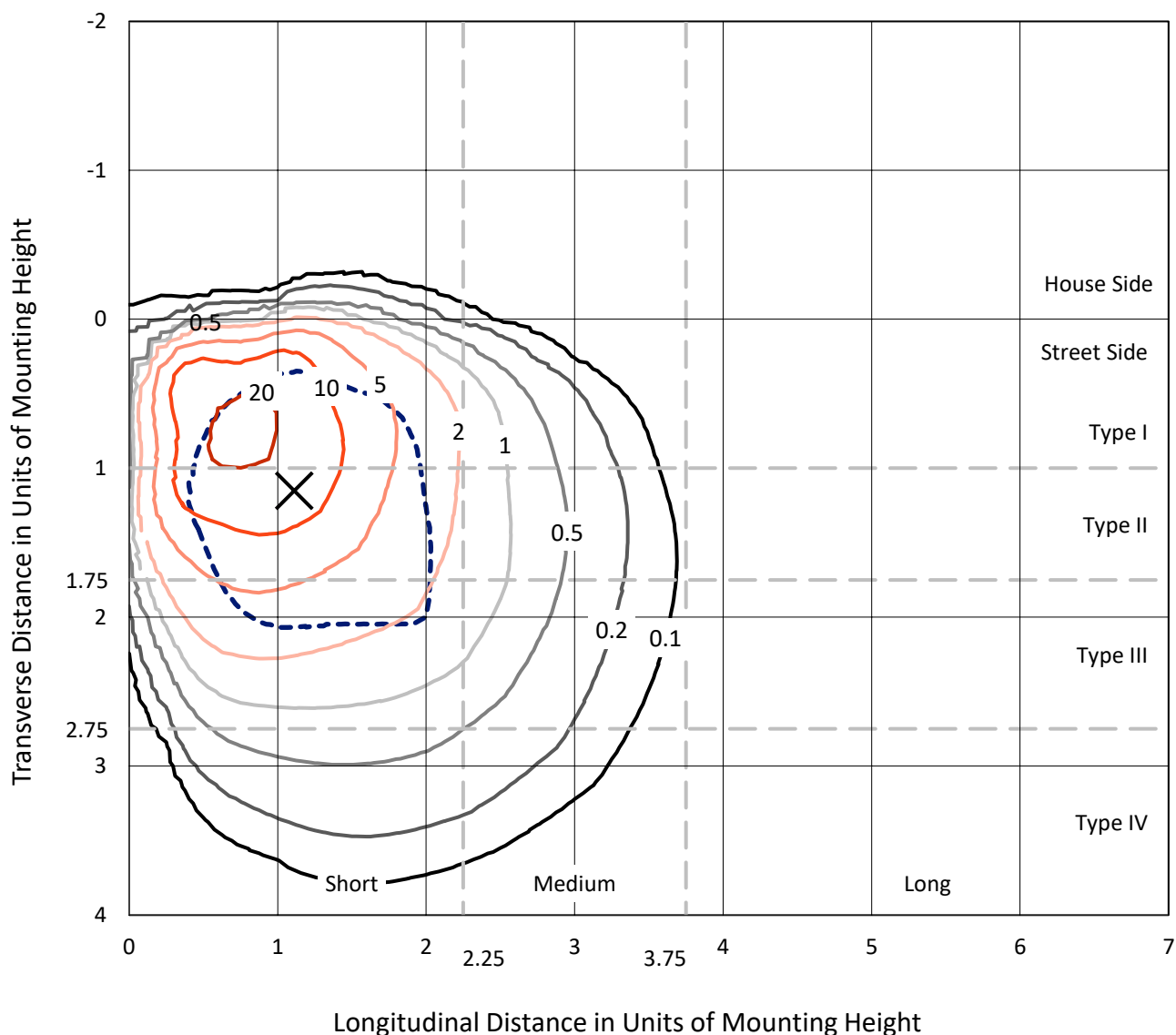
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

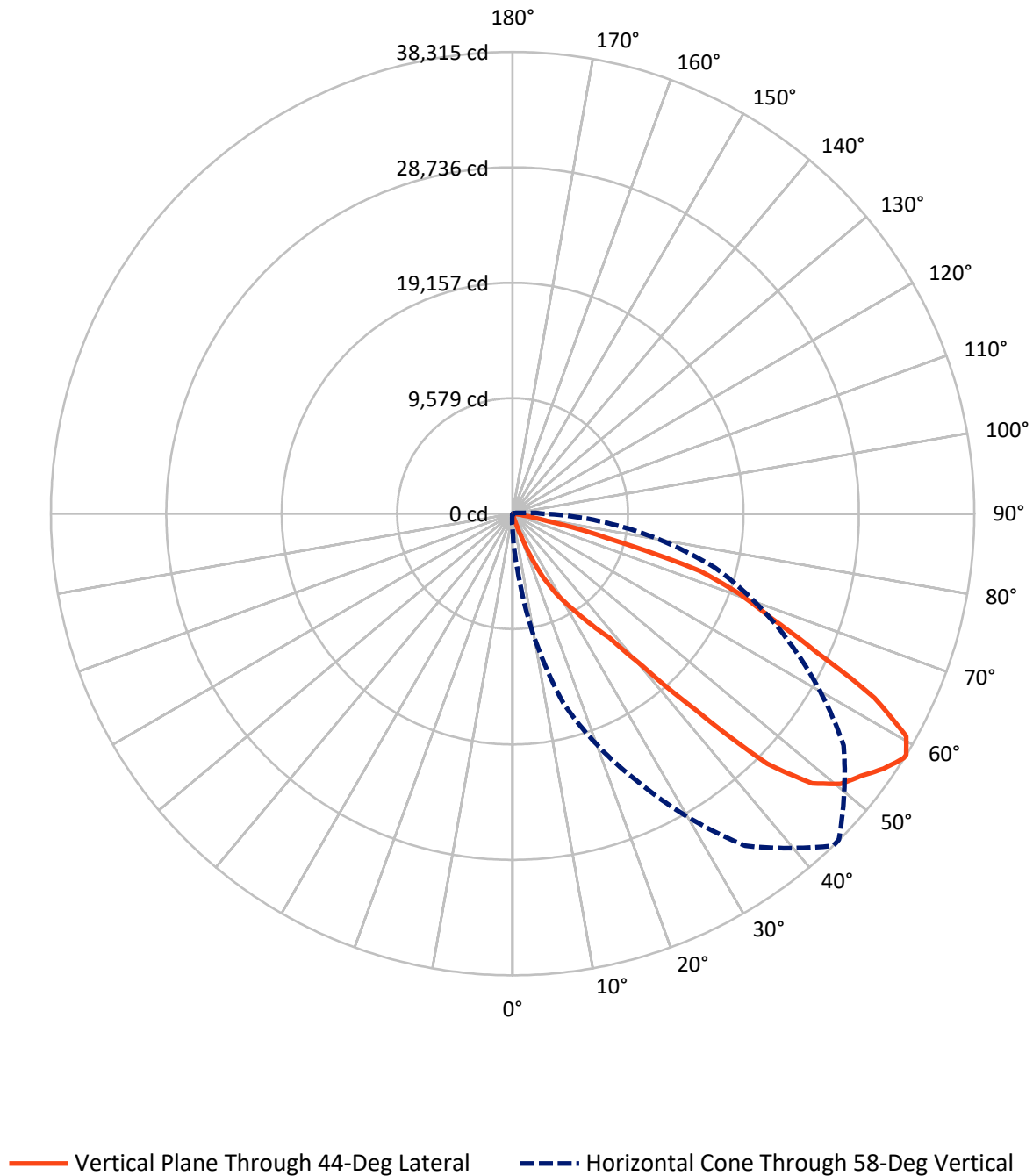


Based on 20 foot mounting height. Maximum calculated value = 26 fc

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	102.0	0.0	102.0
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	14833.2	0.0	14833.2
	% Fixture	99.3	0.0	99.3
Total	Lumens	14935.2	0.0	14935.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.8	0.0
10°-20°	32.8	0.2
20°-30°	353.8	2.4
30°-40°	1046.4	7.0
40°-50°	3118.7	20.9
50°-60°	4948.6	33.1
60°-70°	4127.8	27.6
70°-80°	1273.1	8.5
80°-90°	28.3	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°	14935.2	100.0
0°-180°	14935.2	100.0



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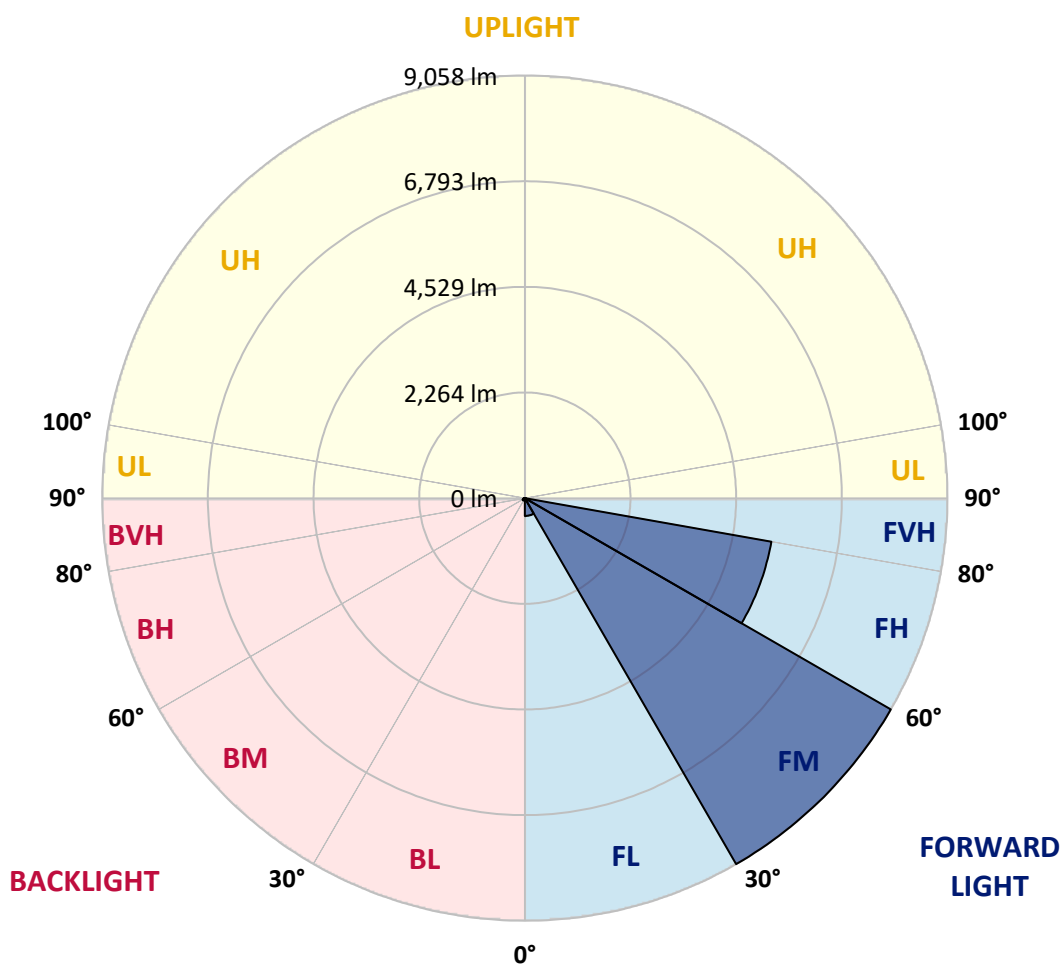
CATALOG NUMBER: GALN-SA4B-727-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	382.4	2.6			
FM	(30°-60°)	9057.9	60.6			
FH	(60°-80°)	5366.0	35.9			G3/7500
FVH	(80°-90°)	26.9	0.2			G1/100
BL	(0°-30°)	10.0	0.1	B0/110		
BM	(30°-60°)	55.8	0.4	B0/220		
BH	(60°-80°)	34.8	0.2	B0/110		G0/110
BVH	(80°-90°)	1.4	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
2.5°	84.6	84.6	81.2	76.7	72.2	67.7	66.6	64.3	63.2	62.1	60.9
5°	88.0	88.0	86.9	83.5	79.0	75.6	75.6	72.2	70.0	67.7	65.4
7.5°	90.3	91.4	93.6	92.5	90.3	86.9	86.9	84.6	81.2	75.6	72.2
10°	93.6	97.0	101.5	103.8	104.9	104.9	103.8	102.7	97.0	89.1	80.1
12.5°	97.0	103.8	115.1	126.4	133.1	142.2	141.0	138.8	124.1	107.2	91.4
15°	103.8	114.0	137.6	170.4	221.1	252.7	265.1	253.9	205.3	144.4	106.1
17.5°	111.7	128.6	199.7	356.5	584.4	692.7	758.2	705.1	467.1	274.2	133.1
20°	119.6	156.8	371.2	924.0	1516.3	1870.6	1968.8	1815.3	1165.5	522.4	197.4
22.5°	133.1	220.0	752.5	1910.1	3267.4	3798.7	3899.2	3408.4	2201.2	1031.2	296.7
25°	161.3	319.3	1297.5	3112.8	4876.2	5773.1	5731.4	5088.3	3570.8	1647.2	451.3
27.5°	202.0	464.8	1962.0	4422.7	6417.4	7208.3	7303.0	6507.6	4760.0	2422.3	640.8
30°	260.6	644.2	2675.0	5471.9	7652.8	8508.0	8523.8	7701.3	5823.9	3102.6	873.2
32.5°	317.0	813.5	3298.9	6486.2	8870.1	9807.7	9877.6	8865.6	6618.2	3811.2	1075.2
35°	359.9	924.0	3930.7	7377.5	10097.6	11389.5	11385.0	10183.4	7559.1	4444.1	1355.0
37.5°	363.3	1034.6	4502.8	8289.1	11652.3	13098.7	13242.0	11917.5	8696.4	5227.1	1698.0
40°	355.4	1158.7	5227.1	9710.7	14453.7	16673.0	16799.3	15129.5	10977.7	6567.4	2233.9
42.5°	364.4	1374.2	6402.7	12336.1	19105.4	22292.7	22536.4	20780.8	15171.3	9302.2	3189.5
45°	411.8	1779.2	8865.6	16728.2	25736.0	29621.6	29540.4	27012.1	20050.9	13465.4	5080.4
47.5°	568.6	2770.9	12516.6	21003.1	29973.7	33433.9	33503.9	30413.7	22898.5	16666.2	7626.8
50°	874.4	4239.9	15584.2	23262.9	31795.7	35267.3	35201.9	31631.0	23980.5	18242.3	9187.2
52.5°	1137.3	5302.7	17123.1	24056.1	32029.3	36173.3	36168.8	31951.4	24148.6	18377.7	9382.4
55°	1202.7	5382.8	17135.5	24099.0	32552.8	37359.0	37508.0	32740.1	24366.4	17786.5	8647.9
57.5°	1176.7	4765.6	16420.2	24347.2	33484.7	38276.3	38284.2	33503.9	24919.2	17424.4	7431.6
58°	1154.2	4668.6	16275.8	24488.2	33644.9	38314.6	38295.5	33538.9	25369.4	17410.8	7241.0
60°	1027.8	4053.7	15712.8	24848.1	33406.9	37527.1	37347.8	32775.0	25302.8	17272.1	6280.8
62.5°	807.8	3162.4	15158.9	24431.8	30854.8	33714.9	33789.3	29016.9	23066.6	16463.1	5149.2
65°	643.1	2356.9	14003.6	21430.7	25407.7	27686.7	27964.3	23595.8	19253.2	13940.4	3796.5
67.5°	512.2	1703.6	11747.1	17062.2	20105.0	23107.3	23309.2	19810.6	14916.3	10680.9	2697.6
70°	416.3	1151.9	8108.6	12478.2	16582.7	19958.4	19970.8	16457.5	11133.4	6998.4	1692.3
72.5°	368.9	797.7	4707.0	9100.3	13446.2	16263.4	15935.1	13354.8	8556.5	4145.1	1008.6
75°	319.3	529.1	2308.4	5563.3	8152.6	8207.9	8333.1	6195.1	4277.1	1971.0	604.7
77.5°	262.9	375.7	909.4	1519.7	2444.9	3129.7	3245.9	2459.5	1422.7	485.1	322.7
80°	180.5	178.3	244.8	466.0	699.5	876.6	818.0	632.9	372.3	186.2	115.1
82.5°	77.8	84.6	110.6	133.1	108.3	104.9	100.4	64.3	49.6	38.4	23.7
85°	24.8	22.6	23.7	23.7	19.2	14.7	14.7	6.8	0.0	0.0	0.0
87.5°	12.4	10.2	10.2	9.0	5.6	2.3	1.1	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	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
2.5°	59.8	59.8	57.5	55.3	54.2	51.9	50.8	49.6	48.5	47.4	46.3
5°	63.2	62.1	58.7	55.3	51.9	48.5	46.3	44.0	41.7	40.6	39.5
7.5°	68.8	66.6	59.8	54.2	49.6	45.1	42.9	39.5	37.2	33.8	32.7
10°	75.6	71.1	62.1	55.3	48.5	42.9	39.5	36.1	32.7	28.2	27.1
12.5°	84.6	76.7	65.4	54.2	46.3	39.5	36.1	31.6	28.2	24.8	22.6
15°	92.5	82.4	66.6	54.2	44.0	36.1	31.6	27.1	23.7	19.2	16.9
17.5°	103.8	86.9	65.4	50.8	40.6	31.6	27.1	23.7	18.1	11.3	9.0
20°	123.0	90.3	63.2	47.4	35.0	25.9	20.3	15.8	7.9	2.3	0.0
22.5°	153.4	99.3	60.9	42.9	30.5	20.3	13.5	5.6	0.0	0.0	0.0
25°	212.1	115.1	60.9	40.6	27.1	14.7	4.5	0.0	0.0	0.0	0.0
27.5°	282.1	136.5	60.9	35.0	21.4	7.9	0.0	0.0	0.0	0.0	0.0
30°	353.1	160.2	60.9	30.5	16.9	1.1	0.0	0.0	0.0	0.0	0.0
32.5°	420.8	180.5	62.1	25.9	11.3	0.0	0.0	0.0	0.0	0.0	0.0
35°	489.7	183.9	60.9	22.6	6.8	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	577.7	177.1	57.5	20.3	3.4	0.0	0.0	0.0	0.0	0.0	0.0
40°	710.8	180.5	54.2	19.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	956.7	195.2	49.6	19.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	1654.0	261.7	45.1	20.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2736.0	470.5	44.0	20.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3491.9	592.3	46.3	21.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3486.2	660.0	48.5	22.6	4.5	0.0	0.0	0.0	0.0	0.0	0.0
55°	3099.2	672.4	51.9	24.8	14.7	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	2590.4	613.8	59.8	30.5	27.1	0.0	0.0	0.0	0.0	0.0	0.0
58°	2500.2	586.7	62.1	31.6	29.3	0.0	0.0	0.0	0.0	0.0	0.0
60°	2048.9	478.4	79.0	39.5	39.5	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1414.8	417.4	90.3	50.8	40.6	0.0	0.0	0.0	0.0	0.0	0.0
65°	1000.7	376.8	98.2	54.2	32.7	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	748.0	347.5	108.3	55.3	16.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	573.1	326.1	133.1	58.7	4.5	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	467.1	301.2	161.3	60.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	387.0	271.9	155.7	66.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	257.2	211.0	142.2	66.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	90.3	83.5	110.6	58.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	13.5	11.3	15.8	20.3	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	0.0



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
2.5°	46.3	46.3	45.1	46.3	46.3	48.5	54.2	62.1	71.1	74.5	77.8
5°	38.4	37.2	36.1	36.1	36.1	39.5	44.0	53.0	63.2	67.7	70.0
7.5°	31.6	30.5	29.3	28.2	28.2	30.5	36.1	46.3	56.4	60.9	64.3
10°	25.9	23.7	22.6	21.4	21.4	23.7	29.3	39.5	50.8	55.3	59.8
12.5°	21.4	18.1	15.8	14.7	13.5	16.9	22.6	31.6	44.0	49.6	54.2
15°	14.7	11.3	7.9	6.8	5.6	9.0	14.7	24.8	37.2	44.0	48.5
17.5°	7.9	3.4	1.1	0.0	0.0	2.3	6.8	18.1	30.5	36.1	41.7
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	22.6	28.2	33.8
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	13.5	19.2	24.8
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	10.2	14.7
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	6.8
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	1.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	6.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	9.0	12.4
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):

	285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
0°	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
2.5°	80.1	79.0	76.7	74.5	74.5	74.5	77.8	81.2	84.6	84.6
5°	74.5	74.5	73.3	71.1	71.1	72.2	76.7	82.4	86.9	88.0
7.5°	68.8	71.1	68.8	67.7	68.8	70.0	74.5	81.2	88.0	90.3
10°	65.4	66.6	66.6	65.4	65.4	67.7	72.2	81.2	90.3	93.6
12.5°	60.9	63.2	62.1	62.1	62.1	64.3	70.0	80.1	92.5	97.0
15°	56.4	59.8	59.8	58.7	58.7	59.8	67.7	79.0	95.9	103.8
17.5°	51.9	55.3	56.4	54.2	54.2	56.4	64.3	79.0	98.2	111.7
20°	42.9	48.5	51.9	48.5	48.5	50.8	58.7	74.5	99.3	119.6
22.5°	33.8	39.5	44.0	42.9	42.9	44.0	54.2	71.1	100.4	133.1
25°	24.8	30.5	33.8	36.1	36.1	39.5	49.6	68.8	104.9	161.3
27.5°	14.7	21.4	25.9	28.2	29.3	33.8	46.3	66.6	112.8	202.0
30°	6.8	12.4	18.1	22.6	22.6	30.5	42.9	64.3	123.0	260.6
32.5°	0.0	5.6	9.0	15.8	16.9	24.8	39.5	62.1	137.6	317.0
35°	0.0	0.0	4.5	12.4	12.4	20.3	36.1	59.8	160.2	359.9
37.5°	0.0	0.0	0.0	9.0	10.2	18.1	35.0	58.7	164.7	363.3
40°	0.0	0.0	0.0	6.8	7.9	16.9	35.0	59.8	148.9	355.4
42.5°	0.0	0.0	0.0	4.5	5.6	16.9	35.0	62.1	134.3	364.4
45°	0.0	0.0	0.0	3.4	4.5	18.1	33.8	60.9	126.4	411.8
47.5°	0.0	0.0	0.0	4.5	6.8	18.1	32.7	59.8	127.5	568.6
50°	0.0	0.0	0.0	5.6	7.9	18.1	33.8	57.5	139.9	874.4
52.5°	0.0	0.0	0.0	4.5	6.8	20.3	37.2	56.4	152.3	1137.3
55°	0.0	0.0	0.0	1.1	3.4	25.9	40.6	56.4	171.5	1202.7
57.5°	0.0	0.0	0.0	0.0	0.0	29.3	46.3	59.8	203.1	1176.7
58°	0.0	0.0	0.0	0.0	0.0	29.3	47.4	59.8	205.3	1154.2
60°	0.0	0.0	0.0	0.0	0.0	29.3	51.9	66.6	221.1	1027.8
62.5°	0.0	0.0	0.0	0.0	0.0	24.8	62.1	83.5	230.2	807.8
65°	0.0	0.0	0.0	0.0	0.0	20.3	73.3	91.4	236.9	643.1
67.5°	0.0	0.0	0.0	0.0	0.0	19.2	75.6	92.5	240.3	512.2
70°	0.0	0.0	0.0	0.0	0.0	20.3	74.5	99.3	251.6	416.3
72.5°	0.0	0.0	0.0	0.0	0.0	22.6	67.7	109.4	251.6	368.9
75°	0.0	0.0	0.0	0.0	0.0	23.7	63.2	123.0	229.0	319.3
77.5°	0.0	0.0	0.0	0.0	0.0	22.6	62.1	143.3	204.2	262.9
80°	2.3	3.4	3.4	2.3	2.3	19.2	60.9	145.5	173.7	180.5
82.5°	6.8	9.0	7.9	5.6	5.6	16.9	54.2	121.8	90.3	77.8
85°	12.4	14.7	14.7	12.4	12.4	15.8	33.8	44.0	30.5	24.8
87.5°	16.9	19.2	19.2	16.9	16.9	15.8	14.7	13.5	12.4	12.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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: SP1-2407-184-3

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-727-U-5WQ

Data in this report applies to families of products including GSS-SB1A-727-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-3
 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-727-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 2700K CCT 26 LEDS

Spectral Parameters

CCT (K):	2672	CRI (Ra):	71.1		
CIE u':	0.2638	R1:	68.3	R9:	-27.8
CIE v':	0.5276	R2:	79.8	R10:	54.4
Duv:	-0.0002	R3:	91.2	R11:	65.8
CIE x:	0.4619	R4:	69.4	R12:	45.6
CIE y:	0.4106	R5:	66.5	R13:	69.8
CIE z:	0.1275	R6:	72.6	R14:	94.5
Peak Wavelength (nm):	601	R7:	77.0	R15:	60.1
Dominant Wavelength (nm):	584	R8:	44.1		
Purity:	61.88407				
Rf:	67.9				
Rg:	98.6				



Test Conditions

Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

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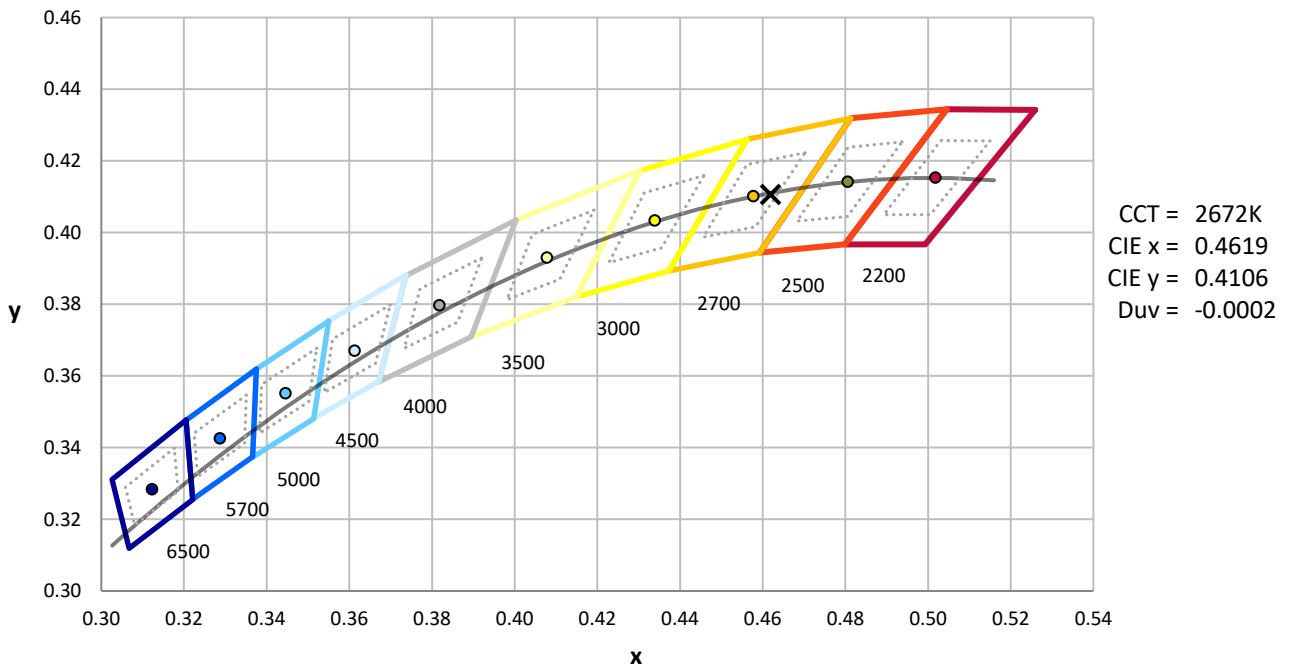
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram

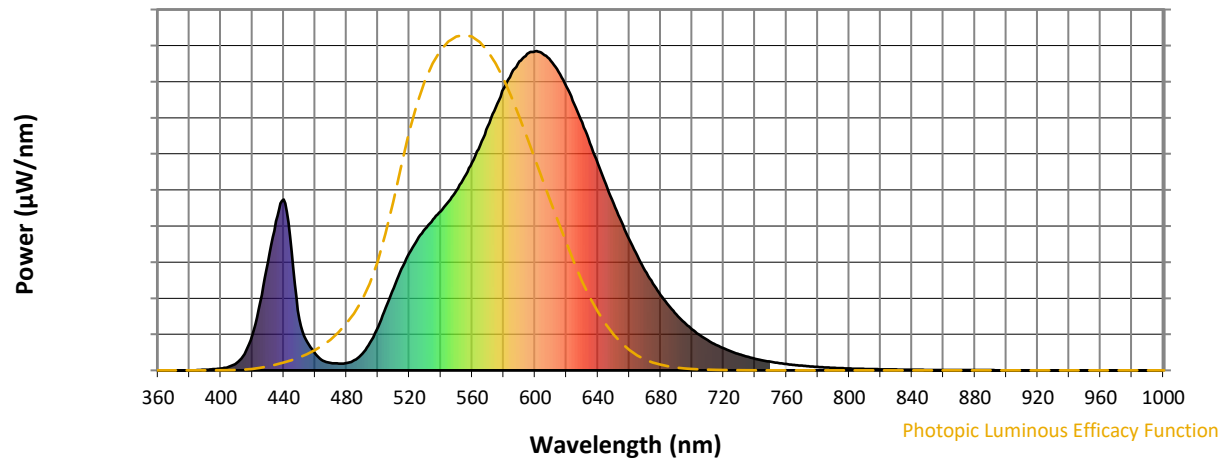


CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



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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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.02

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.71

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

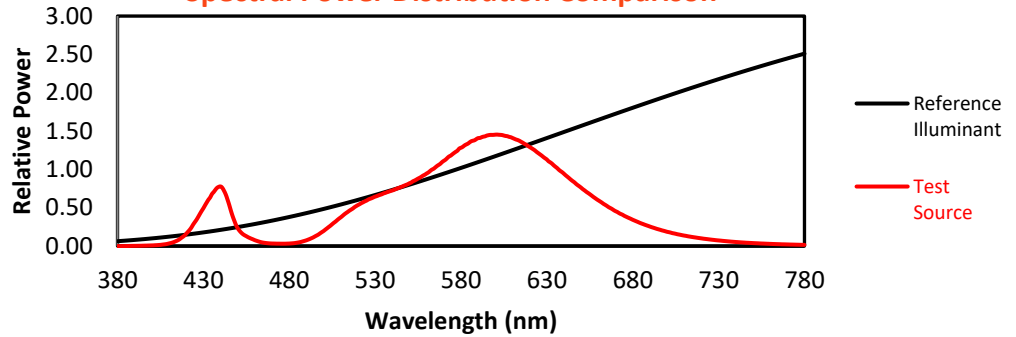
REPORT NUMBER: SP1-2407-184-3

TM-30-18

Summary

$R_f = 67.9$
 $R_g = 98.6$
 $CIE R_a = 71.1$
 $R_g = -27.8$

Spectral Power Distribution Comparison



Color Vector Graphics



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

CES01 = 86	CES26 = 53	CES51 = 75	CES76 = 51
CES02 = 63	CES27 = 70	CES52 = 80	CES77 = 79
CES03 = 31	CES28 = 81	CES53 = 64	CES78 = 58
CES04 = 71	CES29 = 37	CES54 = 73	CES79 = 82
CES05 = 50	CES30 = 33	CES55 = 69	CES80 = 82
CES06 = 52	CES31 = 44	CES56 = 60	CES81 = 69
CES07 = 42	CES32 = 47	CES57 = 54	CES82 = 92
CES08 = 41	CES33 = 45	CES58 = 59	CES83 = 82
CES09 = 29	CES34 = 67	CES59 = 85	CES84 = 92
CES10 = 77	CES35 = 84	CES60 = 86	CES85 = 87
CES11 = 60	CES36 = 68	CES61 = 86	CES86 = 60
CES12 = 66	CES37 = 77	CES62 = 59	CES87 = 79
CES13 = 44	CES38 = 40	CES63 = 66	CES88 = 70
CES14 = 74	CES39 = 88	CES64 = 69	CES89 = 66
CES15 = 72	CES40 = 82	CES65 = 64	CES90 = 64
CES16 = 48	CES41 = 70	CES66 = 65	CES91 = 81
CES17 = 51	CES42 = 76	CES67 = 64	CES92 = 69
CES18 = 57	CES43 = 63	CES68 = 73	CES93 = 81
CES19 = 73	CES44 = 97	CES69 = 83	CES94 = 53
CES20 = 67	CES45 = 74	CES70 = 64	CES95 = 77
CES21 = 88	CES46 = 67	CES71 = 60	CES96 = 79
CES22 = 80	CES47 = 55	CES72 = 87	CES97 = 78
CES23 = 92	CES48 = 42	CES73 = 57	CES98 = 69
CES24 = 92	CES49 = 65	CES74 = 84	CES99 = 60
CES25 = 73	CES50 = 74	CES75 = 60	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)