

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: P1066739

Luminaire Tested: **NVN-SA6C-727-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1066739
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SA6C-727-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 1050mA 6xLight Square PACKAGE
70CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (84) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23931.8 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

Input Watts (W): 279.1
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



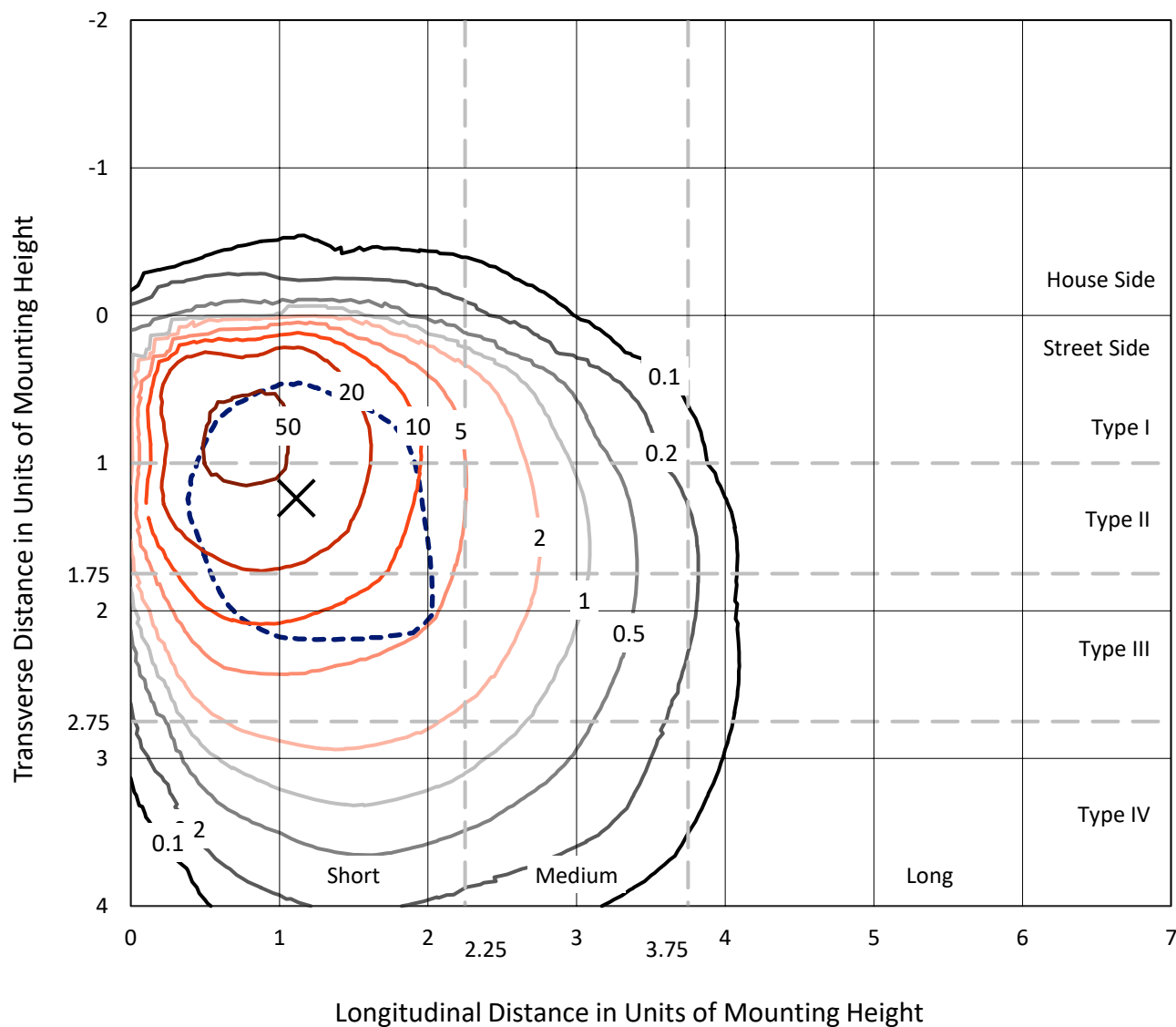
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

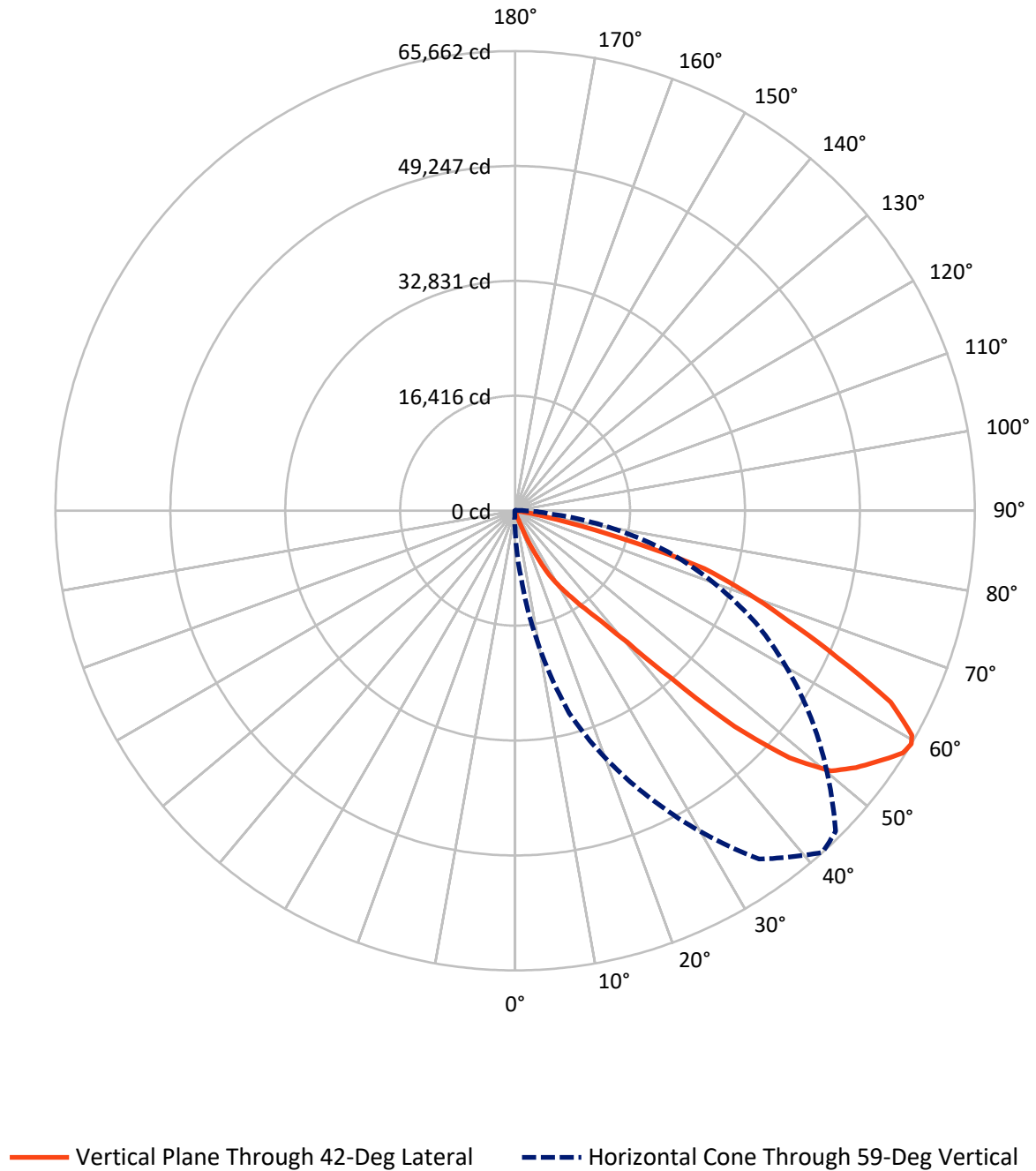


Based on 15 foot mounting height. Maximum calculated value = 71.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	115.3	0.0	115.3
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	23816.5	0.0	23816.5
	% Fixture	99.5	0.0	99.5
Total	Lumens	23931.8	0.0	23931.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.0	0.0
10°-20°	34.9	0.1
20°-30°	446.4	1.9
30°-40°	1505.0	6.3
40°-50°	4545.7	19.0
50°-60°	8024.4	33.5
60°-70°	7065.6	29.5
70°-80°	2249.0	9.4
80°-90°	53.8	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°	23931.8	100.0
0°-180°	23931.8	100.0



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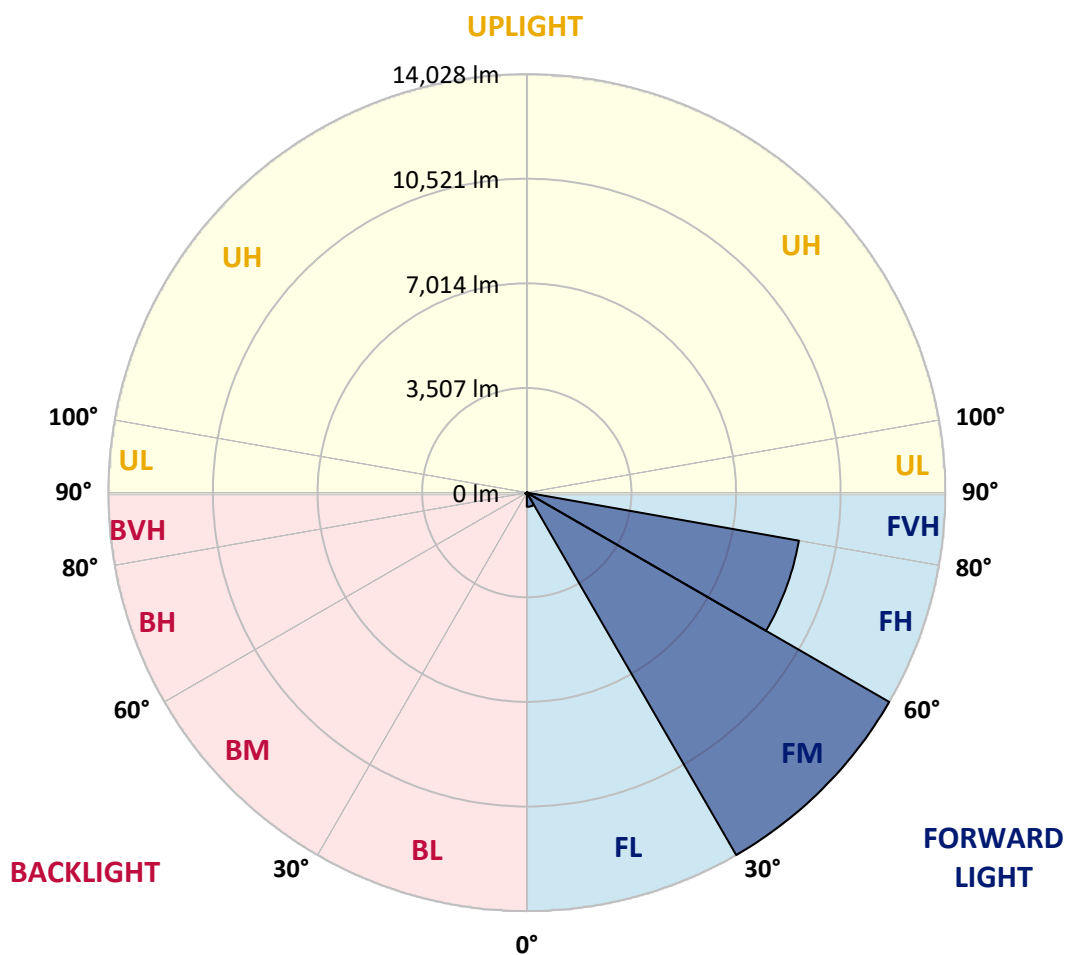
CATALOG NUMBER: NVN-SA6C-727-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	475.4	2.0			
FM	(30°-60°)	14028.0	58.6			
FH	(60°-80°)	9261.8	38.7			G4/12000
FVH	(80°-90°)	51.2	0.2			G1/100
BL	(0°-30°)	12.9	0.1	B0/110		
BM	(30°-60°)	47.1	0.2	B0/220		
BH	(60°-80°)	52.7	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
2.5°	105.0	105.0	97.5	90.0	82.5	75.0	75.0	75.0	67.5	67.5	60.0
5°	120.1	120.1	112.6	105.0	105.0	97.5	97.5	90.0	82.5	82.5	75.0
7.5°	127.6	127.6	127.6	127.6	120.1	120.1	120.1	112.6	105.0	97.5	90.0
10°	135.1	142.6	150.1	150.1	150.1	150.1	150.1	142.6	127.6	120.1	105.0
12.5°	150.1	157.6	172.6	187.6	187.6	195.1	187.6	180.1	165.1	142.6	120.1
15°	165.1	180.1	202.6	232.6	262.6	270.1	270.1	247.6	217.6	172.6	142.6
17.5°	187.6	210.1	270.1	367.7	472.7	555.3	555.3	495.2	345.2	225.1	165.1
20°	202.6	247.6	435.2	885.4	1350.6	1695.8	1628.2	1440.7	772.9	352.7	180.1
22.5°	225.1	315.1	922.9	2326.1	3601.6	4231.9	4081.9	3098.9	1733.3	630.3	217.6
25°	255.1	457.7	1830.8	4359.5	6693.0	7375.9	7278.3	5785.1	3158.9	1058.0	277.6
27.5°	315.1	675.3	2933.8	6610.5	9874.5	10459.8	10422.2	8471.4	5049.8	1703.3	360.2
30°	397.7	982.9	4352.0	8981.6	11983.0	12575.7	12388.1	10437.2	6813.1	2603.7	465.2
32.5°	495.2	1373.1	5635.1	10729.9	13926.3	14706.7	14481.6	12148.0	8231.2	3369.0	690.3
35°	645.3	1755.8	6903.1	12275.6	16169.9	17160.3	16785.1	13911.3	9454.3	4231.9	832.9
37.5°	720.3	1980.9	8066.2	13956.3	18691.0	20041.6	19756.5	16139.8	10699.9	5334.9	1020.5
40°	727.8	2251.0	9274.2	16147.3	22255.1	24663.7	24153.5	19966.6	13018.4	6753.1	1313.1
42.5°	750.3	2656.2	10842.4	19884.0	29255.8	32714.9	32137.1	27004.8	18278.3	9596.9	1860.8
45°	855.4	3421.6	14038.9	26869.7	38867.7	43940.0	43272.2	36811.7	25624.2	14946.8	3173.9
47.5°	1223.1	5147.3	19643.9	34410.7	48697.2	52741.5	52576.4	44540.3	32279.7	20431.8	5379.9
50°	1965.9	7901.1	26021.8	40751.0	54955.0	58429.1	58016.4	47766.7	36076.4	24176.0	6895.6
52.5°	2626.2	10534.8	30028.7	43084.6	56823.3	60965.2	60462.5	48944.8	37074.4	25279.0	7315.8
55°	2791.3	11487.7	31221.7	43804.9	58061.4	63111.2	62383.4	49732.6	37201.9	24491.1	6618.0
57.5°	2708.7	10587.3	30448.9	44510.2	59787.2	65317.2	64349.3	51270.8	37629.6	23155.5	5507.5
59°	2566.2	9476.8	29968.6	45073.0	60740.1	65662.4	64754.5	51608.5	37914.7	22547.8	4832.2
60°	2401.1	8726.5	29593.5	45440.7	60680.1	65122.1	64184.2	51450.9	38027.3	22022.5	4509.6
62.5°	1853.3	6963.2	29053.2	45178.1	56890.9	60192.4	59659.6	47594.2	36376.5	20341.8	3556.6
65°	1440.7	5327.4	27072.3	40293.3	48412.0	50633.0	50468.0	40300.8	30613.9	17535.5	2566.2
67.5°	1140.5	3886.8	22892.9	32632.3	38950.2	42109.2	41989.1	32714.9	23238.1	13401.1	1845.8
70°	930.4	2768.8	15697.1	24603.7	31154.2	35131.0	34958.4	26329.5	17220.3	8501.4	1343.1
72.5°	787.9	1770.8	9521.8	18548.4	25999.3	28272.9	27770.1	21242.2	12523.2	4629.6	1065.5
75°	667.8	1088.0	4719.6	11562.8	15487.0	15472.0	14969.3	11247.6	6723.1	2266.0	847.9
77.5°	540.2	765.3	1853.3	3173.9	4884.7	6047.8	5950.2	3984.3	2010.9	660.3	525.2
80°	352.7	360.2	495.2	870.4	1343.1	1485.7	1688.3	1215.6	585.3	315.1	217.6
82.5°	157.6	172.6	225.1	285.1	285.1	262.6	232.6	172.6	127.6	105.0	52.5
85°	37.5	52.5	37.5	45.0	37.5	30.0	30.0	15.0	0.0	0.0	0.0
87.5°	7.5	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
2.5°	60.0	60.0	60.0	52.5	52.5	52.5	45.0	45.0	45.0	37.5	37.5
5°	75.0	67.5	60.0	60.0	52.5	52.5	45.0	37.5	37.5	37.5	30.0
7.5°	82.5	75.0	67.5	60.0	52.5	45.0	45.0	37.5	30.0	30.0	30.0
10°	97.5	90.0	75.0	60.0	52.5	45.0	37.5	37.5	30.0	22.5	22.5
12.5°	112.6	97.5	82.5	67.5	52.5	45.0	37.5	37.5	30.0	22.5	15.0
15°	127.6	112.6	90.0	67.5	52.5	45.0	37.5	37.5	22.5	15.0	7.5
17.5°	142.6	120.1	90.0	75.0	52.5	45.0	37.5	30.0	15.0	7.5	0.0
20°	150.1	127.6	97.5	75.0	52.5	45.0	37.5	22.5	7.5	0.0	0.0
22.5°	165.1	142.6	105.0	75.0	52.5	37.5	22.5	7.5	0.0	0.0	0.0
25°	195.1	150.1	105.0	75.0	52.5	37.5	15.0	0.0	0.0	0.0	0.0
27.5°	217.6	165.1	105.0	75.0	52.5	30.0	7.5	0.0	0.0	0.0	0.0
30°	255.1	180.1	112.6	75.0	52.5	22.5	7.5	0.0	0.0	0.0	0.0
32.5°	315.1	195.1	112.6	75.0	45.0	22.5	0.0	0.0	0.0	0.0	0.0
35°	382.7	225.1	112.6	75.0	45.0	22.5	0.0	0.0	0.0	0.0	0.0
37.5°	390.2	240.1	112.6	75.0	45.0	15.0	0.0	0.0	0.0	0.0	0.0
40°	405.2	225.1	120.1	75.0	45.0	15.0	0.0	0.0	0.0	0.0	0.0
42.5°	465.2	210.1	127.6	75.0	45.0	15.0	0.0	0.0	0.0	0.0	0.0
45°	690.3	217.6	127.6	82.5	45.0	22.5	0.0	0.0	0.0	0.0	0.0
47.5°	1200.5	225.1	120.1	82.5	45.0	22.5	0.0	0.0	0.0	0.0	0.0
50°	1538.2	262.6	120.1	90.0	52.5	15.0	0.0	0.0	0.0	0.0	0.0
52.5°	1635.7	307.6	120.1	97.5	67.5	7.5	0.0	0.0	0.0	0.0	0.0
55°	1590.7	360.2	127.6	105.0	82.5	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	1470.7	390.2	135.1	112.6	90.0	0.0	0.0	0.0	0.0	0.0	0.0
59°	1343.1	412.7	157.6	120.1	90.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	1238.1	435.2	165.1	127.6	90.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	998.0	465.2	180.1	150.1	75.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	870.4	487.7	187.6	165.1	67.5	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	795.4	502.7	202.6	172.6	60.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	735.3	495.2	217.6	165.1	52.5	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	667.8	472.7	262.6	150.1	45.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	600.3	427.7	285.1	135.1	30.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	435.2	360.2	262.6	120.1	15.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	187.6	195.1	187.6	90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	37.5	45.0	37.5	22.5	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°	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
2.5°	37.5	37.5	37.5	37.5	45.0	45.0	60.0	75.0	90.0	97.5	97.5
5°	30.0	30.0	30.0	30.0	30.0	37.5	45.0	60.0	82.5	90.0	90.0
7.5°	22.5	22.5	22.5	22.5	22.5	22.5	37.5	52.5	75.0	82.5	90.0
10°	22.5	15.0	15.0	7.5	7.5	15.0	22.5	45.0	67.5	75.0	82.5
12.5°	15.0	7.5	7.5	0.0	0.0	7.5	15.0	37.5	60.0	67.5	75.0
15°	7.5	0.0	0.0	0.0	0.0	0.0	7.5	30.0	52.5	60.0	75.0
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5	45.0	60.0	67.5
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.0	37.5	52.5	60.0
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	30.0	45.0	52.5
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5	30.0	37.5
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.0	22.5	30.0
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.0	22.5	30.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	15.0	22.5
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	15.0	22.5
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	15.0	15.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	15.0
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	15.0
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	15.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	15.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	15.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	7.5
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	7.5
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	7.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	15.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	15.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	7.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	7.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	7.5
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°	318°	325°	335°	345°	355°	360°
0°	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
2.5°	105.0	105.0	97.5	90.0	90.0	90.0	97.5	105.0	105.0	105.0
5°	97.5	97.5	90.0	90.0	90.0	90.0	97.5	112.6	120.1	120.1
7.5°	97.5	97.5	90.0	90.0	90.0	90.0	97.5	112.6	120.1	127.6
10°	90.0	90.0	90.0	90.0	82.5	90.0	97.5	112.6	135.1	135.1
12.5°	90.0	90.0	90.0	90.0	82.5	90.0	105.0	120.1	142.6	150.1
15°	90.0	90.0	90.0	82.5	82.5	90.0	105.0	127.6	150.1	165.1
17.5°	82.5	90.0	90.0	82.5	82.5	90.0	105.0	127.6	165.1	187.6
20°	75.0	82.5	90.0	82.5	82.5	82.5	105.0	127.6	172.6	202.6
22.5°	67.5	75.0	82.5	82.5	75.0	82.5	105.0	135.1	187.6	225.1
25°	60.0	67.5	67.5	75.0	75.0	82.5	105.0	135.1	195.1	255.1
27.5°	45.0	52.5	60.0	67.5	67.5	82.5	105.0	142.6	210.1	315.1
30°	37.5	45.0	52.5	60.0	67.5	82.5	105.0	142.6	225.1	397.7
32.5°	37.5	45.0	52.5	60.0	67.5	75.0	105.0	150.1	247.6	495.2
35°	30.0	37.5	45.0	60.0	60.0	75.0	105.0	150.1	270.1	645.3
37.5°	30.0	37.5	45.0	60.0	60.0	75.0	105.0	150.1	330.2	720.3
40°	22.5	30.0	37.5	60.0	60.0	75.0	112.6	157.6	337.7	727.8
42.5°	22.5	30.0	37.5	52.5	60.0	75.0	112.6	157.6	315.1	750.3
45°	22.5	30.0	37.5	60.0	67.5	82.5	112.6	165.1	307.6	855.4
47.5°	22.5	30.0	37.5	60.0	75.0	82.5	112.6	165.1	315.1	1223.1
50°	22.5	30.0	37.5	60.0	82.5	82.5	112.6	165.1	345.2	1965.9
52.5°	15.0	22.5	30.0	52.5	67.5	90.0	120.1	157.6	367.7	2626.2
55°	15.0	15.0	22.5	45.0	60.0	97.5	127.6	157.6	427.7	2791.3
57.5°	15.0	15.0	22.5	37.5	52.5	105.0	135.1	157.6	495.2	2708.7
59°	15.0	15.0	15.0	30.0	45.0	105.0	142.6	172.6	510.2	2401.1
60°	15.0	15.0	15.0	30.0	45.0	105.0	142.6	172.6	510.2	2401.1
62.5°	7.5	7.5	7.5	30.0	37.5	105.0	157.6	210.1	525.2	1853.3
65°	15.0	15.0	7.5	22.5	37.5	90.0	180.1	225.1	532.7	1440.7
67.5°	15.0	15.0	15.0	30.0	37.5	90.0	187.6	232.6	532.7	1140.5
70°	15.0	15.0	15.0	30.0	45.0	90.0	187.6	240.1	525.2	930.4
72.5°	15.0	15.0	15.0	30.0	45.0	82.5	172.6	247.6	502.7	787.9
75°	15.0	15.0	15.0	22.5	37.5	75.0	165.1	270.1	457.7	667.8
77.5°	15.0	15.0	15.0	15.0	30.0	60.0	150.1	300.1	405.2	540.2
80°	22.5	15.0	15.0	15.0	22.5	52.5	142.6	292.6	337.7	352.7
82.5°	22.5	15.0	15.0	7.5	15.0	37.5	112.6	225.1	172.6	157.6
85°	15.0	15.0	15.0	7.5	7.5	22.5	52.5	67.5	52.5	37.5
87.5°	15.0	15.0	15.0	7.5	7.5	7.5	7.5	7.5	7.5	7.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

REPORT NUMBER: SP1-2407-184-3

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



REPORT NUMBER: SP1-2407-184-3

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	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			

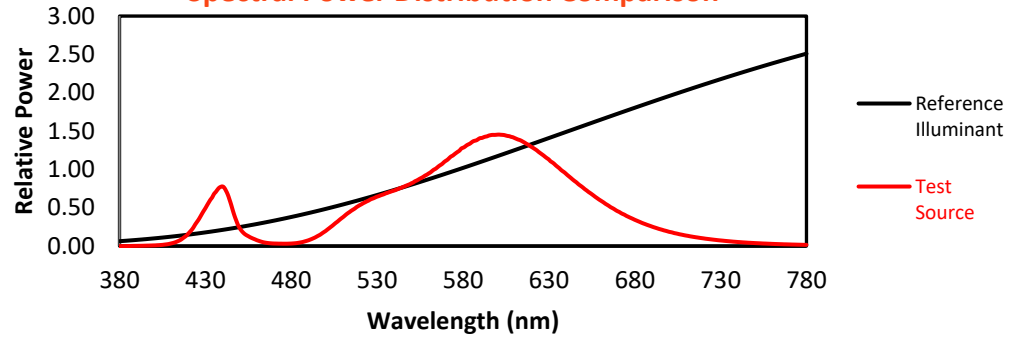
REPORT NUMBER: SP1-2407-184-3

TM-30-18

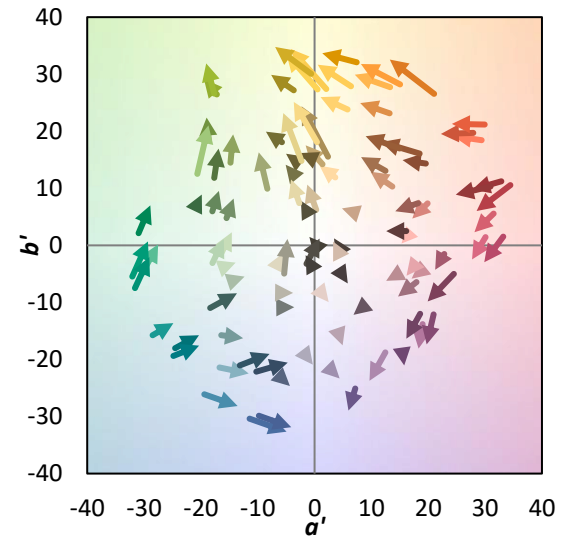
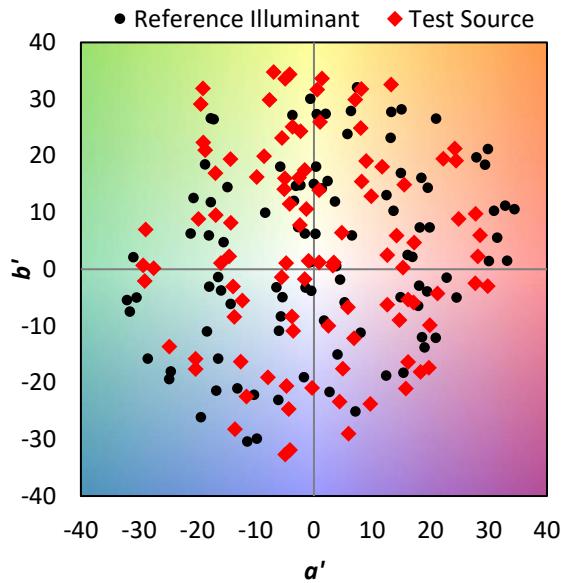
Summary

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

Spectral Power Distribution Comparison

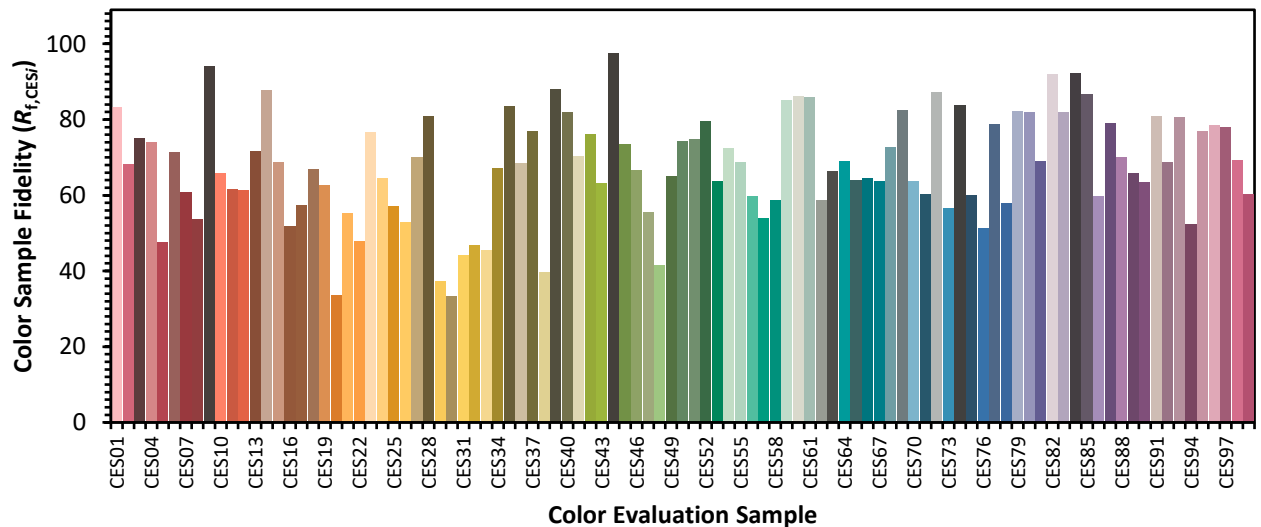


Color Vector Graphics



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)