

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: LUMARK

Report Number: P1068044

Luminaire Tested: **NAV-SA2D-827-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1068044
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA2D-827-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 1200mA 2xLight Square PACKAGE
80CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (28) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7791.2 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 107
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

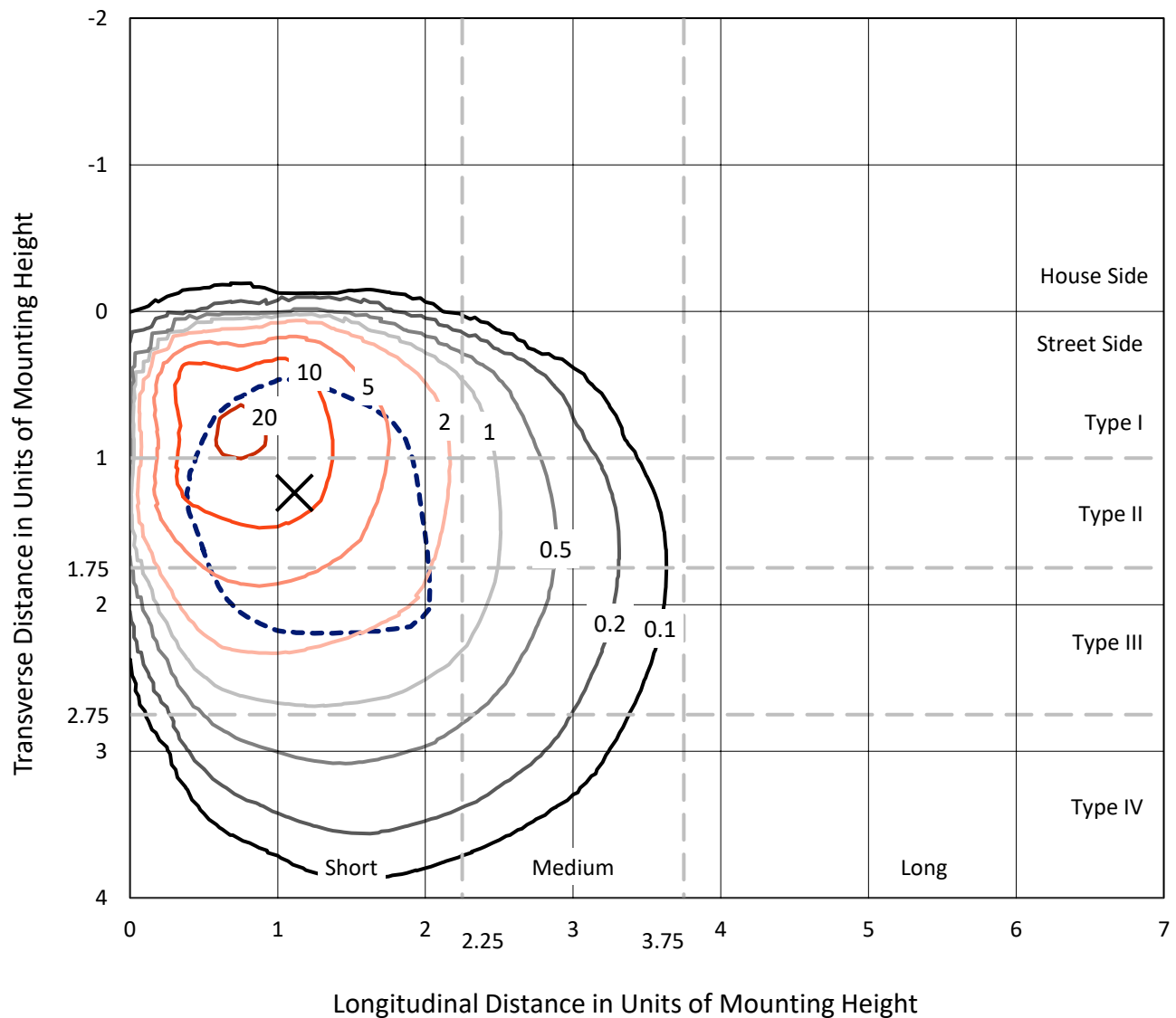


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

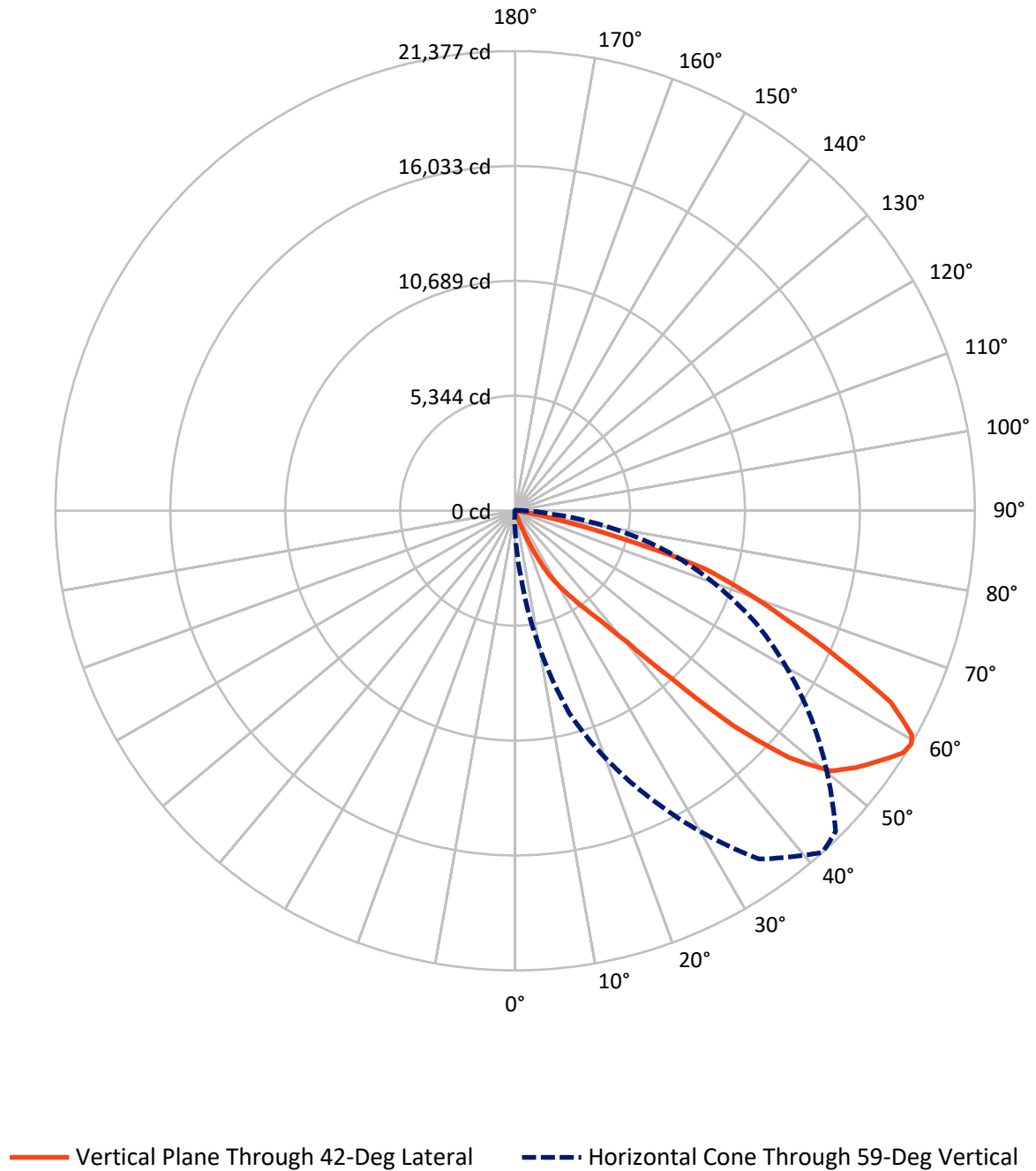


Based on 15 foot mounting height. Maximum calculated value = 23.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	37.5	0.0	37.5
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	7753.7	0.0	7753.7
	% Fixture	99.5	0.0	99.5
Total	Lumens	7791.2	0.0	7791.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.3	0.0
10°-20°	11.4	0.1
20°-30°	145.3	1.9
30°-40°	490.0	6.3
40°-50°	1479.9	19.0
50°-60°	2612.4	33.5
60°-70°	2300.3	29.5
70°-80°	732.2	9.4
80°-90°	17.5	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°	7791.2	100.0
0°-180°	7791.2	100.0



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
2.5°	34.2	34.2	31.8	29.3	26.9	24.4	24.4	24.4	22.0	22.0	19.5
5°	39.1	39.1	36.6	34.2	34.2	31.8	31.8	29.3	26.9	26.9	24.4
7.5°	41.5	41.5	41.5	41.5	39.1	39.1	39.1	36.6	34.2	31.8	29.3
10°	44.0	46.4	48.9	48.9	48.9	48.9	48.9	46.4	41.5	39.1	34.2
12.5°	48.9	51.3	56.2	61.1	61.1	63.5	61.1	58.6	53.7	46.4	39.1
15°	53.7	58.6	66.0	75.7	85.5	87.9	87.9	80.6	70.8	56.2	46.4
17.5°	61.1	68.4	87.9	119.7	153.9	180.8	180.8	161.2	112.4	73.3	53.7
20°	66.0	80.6	141.7	288.3	439.7	552.1	530.1	469.0	251.6	114.8	58.6
22.5°	73.3	102.6	300.5	757.3	1172.6	1377.7	1328.9	1008.9	564.3	205.2	70.8
25°	83.1	149.0	596.0	1419.3	2179.0	2401.3	2369.5	1883.4	1028.4	344.4	90.4
27.5°	102.6	219.9	955.1	2152.1	3214.7	3405.3	3393.1	2757.9	1644.0	554.5	117.3
30°	129.5	320.0	1416.8	2924.1	3901.2	4094.2	4033.1	3398.0	2218.1	847.7	151.5
32.5°	161.2	447.0	1834.6	3493.2	4533.9	4787.9	4714.6	3954.9	2679.8	1096.8	224.7
35°	210.1	571.6	2247.4	3996.4	5264.3	5586.7	5464.6	4529.0	3077.9	1377.7	271.2
37.5°	234.5	644.9	2626.0	4543.6	6085.1	6524.8	6431.9	5254.5	3483.5	1736.8	332.2
40°	237.0	732.8	3019.3	5256.9	7245.4	8029.5	7863.4	6500.3	4238.3	2198.5	427.5
42.5°	244.3	864.8	3529.9	6473.5	9524.5	10650.7	10462.6	8791.7	5950.7	3124.4	605.8
45°	278.5	1113.9	4570.5	8747.7	12653.8	14305.1	14087.7	11984.5	8342.2	4866.1	1033.3
47.5°	398.2	1675.8	6395.3	11202.8	15853.9	17170.6	17116.8	14500.6	10509.0	6651.8	1751.5
50°	640.0	2572.3	8471.7	13266.9	17891.2	19022.2	18887.9	15551.0	11745.1	7870.8	2244.9
52.5°	855.0	3429.7	9776.2	14026.7	18499.4	19847.9	19684.2	15934.5	12070.0	8229.8	2381.7
55°	908.7	3740.0	10164.6	14261.2	18902.5	20546.5	20309.6	16191.0	12111.5	7973.4	2154.6
57.5°	881.9	3446.8	9912.9	14490.8	19464.4	21264.7	20949.6	16691.8	12250.7	7538.5	1793.0
59°	835.4	3085.3	9756.6	14674.0	19774.6	21377.1	21081.5	16801.7	12343.6	7340.7	1573.2
60°	781.7	2841.0	9634.5	14793.7	19755.1	21201.2	20895.9	16750.4	12380.2	7169.7	1468.1
62.5°	603.4	2266.9	9458.6	14708.2	18521.4	19596.3	19422.8	15494.8	11842.8	6622.5	1157.9
65°	469.0	1734.4	8813.7	13117.9	15761.1	16484.1	16430.4	13120.4	9966.7	5708.9	835.4
67.5°	371.3	1265.4	7453.0	10623.8	12680.7	13709.1	13670.0	10650.7	7565.4	4362.9	600.9
70°	302.9	901.4	5110.4	8010.0	10142.6	11437.3	11381.1	8571.8	5606.3	2767.7	437.3
72.5°	256.5	576.5	3099.9	6038.6	8464.4	9204.5	9040.9	6915.6	4077.1	1507.2	346.9
75°	217.4	354.2	1536.5	3764.4	5042.0	5037.1	4873.4	3661.8	2188.8	737.7	276.0
77.5°	175.9	249.2	603.4	1033.3	1590.3	1968.9	1937.2	1297.1	654.7	215.0	171.0
80°	114.8	117.3	161.2	283.4	437.3	483.7	549.6	395.7	190.5	102.6	70.8
82.5°	51.3	56.2	73.3	92.8	92.8	85.5	75.7	56.2	41.5	34.2	17.1
85°	12.2	17.1	12.2	14.7	12.2	9.8	9.8	4.9	0.0	0.0	0.0
87.5°	2.4	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°	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
2.5°	19.5	19.5	19.5	17.1	17.1	17.1	14.7	14.7	14.7	12.2	12.2
5°	24.4	22.0	19.5	19.5	17.1	17.1	14.7	12.2	12.2	12.2	9.8
7.5°	26.9	24.4	22.0	19.5	17.1	14.7	14.7	12.2	9.8	9.8	9.8
10°	31.8	29.3	24.4	19.5	17.1	14.7	12.2	12.2	9.8	7.3	7.3
12.5°	36.6	31.8	26.9	22.0	17.1	14.7	12.2	12.2	9.8	7.3	4.9
15°	41.5	36.6	29.3	22.0	17.1	14.7	12.2	12.2	7.3	4.9	2.4
17.5°	46.4	39.1	29.3	24.4	17.1	14.7	12.2	9.8	4.9	2.4	0.0
20°	48.9	41.5	31.8	24.4	17.1	14.7	12.2	7.3	2.4	0.0	0.0
22.5°	53.7	46.4	34.2	24.4	17.1	12.2	7.3	2.4	0.0	0.0	0.0
25°	63.5	48.9	34.2	24.4	17.1	12.2	4.9	0.0	0.0	0.0	0.0
27.5°	70.8	53.7	34.2	24.4	17.1	9.8	2.4	0.0	0.0	0.0	0.0
30°	83.1	58.6	36.6	24.4	17.1	7.3	2.4	0.0	0.0	0.0	0.0
32.5°	102.6	63.5	36.6	24.4	14.7	7.3	0.0	0.0	0.0	0.0	0.0
35°	124.6	73.3	36.6	24.4	14.7	7.3	0.0	0.0	0.0	0.0	0.0
37.5°	127.0	78.2	36.6	24.4	14.7	4.9	0.0	0.0	0.0	0.0	0.0
40°	131.9	73.3	39.1	24.4	14.7	4.9	0.0	0.0	0.0	0.0	0.0
42.5°	151.5	68.4	41.5	24.4	14.7	4.9	0.0	0.0	0.0	0.0	0.0
45°	224.7	70.8	41.5	26.9	14.7	7.3	0.0	0.0	0.0	0.0	0.0
47.5°	390.9	73.3	39.1	26.9	14.7	7.3	0.0	0.0	0.0	0.0	0.0
50°	500.8	85.5	39.1	29.3	17.1	4.9	0.0	0.0	0.0	0.0	0.0
52.5°	532.5	100.2	39.1	31.8	22.0	2.4	0.0	0.0	0.0	0.0	0.0
55°	517.9	117.3	41.5	34.2	26.9	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	478.8	127.0	44.0	36.6	29.3	0.0	0.0	0.0	0.0	0.0	0.0
59°	437.3	134.4	51.3	39.1	29.3	0.0	0.0	0.0	0.0	0.0	0.0
60°	403.1	141.7	53.7	41.5	29.3	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	324.9	151.5	58.6	48.9	24.4	0.0	0.0	0.0	0.0	0.0	0.0
65°	283.4	158.8	61.1	53.7	22.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	258.9	163.7	66.0	56.2	19.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	239.4	161.2	70.8	53.7	17.1	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	217.4	153.9	85.5	48.9	14.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	195.4	139.2	92.8	44.0	9.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	141.7	117.3	85.5	39.1	4.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	61.1	63.5	61.1	29.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	12.2	14.7	12.2	7.3	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°	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
2.5°	12.2	12.2	12.2	12.2	14.7	14.7	19.5	24.4	29.3	31.8	31.8
5°	9.8	9.8	9.8	9.8	9.8	12.2	14.7	19.5	26.9	29.3	29.3
7.5°	7.3	7.3	7.3	7.3	7.3	7.3	12.2	17.1	24.4	26.9	29.3
10°	7.3	4.9	4.9	2.4	2.4	4.9	7.3	14.7	22.0	24.4	26.9
12.5°	4.9	2.4	2.4	0.0	0.0	2.4	4.9	12.2	19.5	22.0	24.4
15°	2.4	0.0	0.0	0.0	0.0	0.0	2.4	9.8	17.1	19.5	24.4
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	14.7	19.5	22.0
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	12.2	17.1	19.5
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	9.8	14.7	17.1
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	9.8	12.2
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	7.3	9.8
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	7.3	9.8
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.9	7.3
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.9	7.3
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.9	4.9
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.9
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.9
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.9
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.9
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.9
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4
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°	318°	325°	335°	345°	355°	360°
0°	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
2.5°	34.2	34.2	31.8	29.3	29.3	29.3	31.8	34.2	34.2	34.2
5°	31.8	31.8	29.3	29.3	29.3	29.3	31.8	36.6	39.1	39.1
7.5°	31.8	31.8	29.3	29.3	29.3	29.3	31.8	36.6	39.1	41.5
10°	29.3	29.3	29.3	29.3	26.9	29.3	31.8	36.6	44.0	44.0
12.5°	29.3	29.3	29.3	29.3	26.9	29.3	34.2	39.1	46.4	48.9
15°	29.3	29.3	29.3	26.9	26.9	29.3	34.2	41.5	48.9	53.7
17.5°	26.9	29.3	29.3	26.9	26.9	29.3	34.2	41.5	53.7	61.1
20°	24.4	26.9	29.3	26.9	26.9	26.9	34.2	41.5	56.2	66.0
22.5°	22.0	24.4	26.9	26.9	24.4	26.9	34.2	44.0	61.1	73.3
25°	19.5	22.0	22.0	24.4	24.4	26.9	34.2	44.0	63.5	83.1
27.5°	14.7	17.1	19.5	22.0	22.0	26.9	34.2	46.4	68.4	102.6
30°	12.2	14.7	17.1	19.5	22.0	26.9	34.2	46.4	73.3	129.5
32.5°	12.2	14.7	17.1	19.5	22.0	24.4	34.2	48.9	80.6	161.2
35°	9.8	12.2	14.7	19.5	19.5	24.4	34.2	48.9	87.9	210.1
37.5°	9.8	12.2	14.7	19.5	19.5	24.4	34.2	48.9	107.5	234.5
40°	7.3	9.8	12.2	19.5	19.5	24.4	36.6	51.3	109.9	237.0
42.5°	7.3	9.8	12.2	17.1	19.5	24.4	36.6	51.3	102.6	244.3
45°	7.3	9.8	12.2	19.5	22.0	26.9	36.6	53.7	100.2	278.5
47.5°	7.3	9.8	12.2	19.5	24.4	26.9	36.6	53.7	102.6	398.2
50°	7.3	9.8	12.2	19.5	26.9	26.9	36.6	53.7	112.4	640.0
52.5°	4.9	7.3	9.8	17.1	22.0	29.3	39.1	51.3	119.7	855.0
55°	4.9	4.9	7.3	14.7	19.5	31.8	41.5	51.3	139.2	908.7
57.5°	4.9	4.9	7.3	12.2	17.1	34.2	44.0	51.3	161.2	881.9
59°	4.9	4.9	4.9	12.2	14.7	34.2	44.0	53.7	163.7	835.4
60°	4.9	4.9	4.9	9.8	14.7	34.2	46.4	56.2	166.1	781.7
62.5°	2.4	2.4	2.4	9.8	12.2	34.2	51.3	68.4	171.0	603.4
65°	4.9	4.9	2.4	7.3	12.2	29.3	58.6	73.3	173.4	469.0
67.5°	4.9	4.9	4.9	9.8	12.2	29.3	61.1	75.7	173.4	371.3
70°	4.9	4.9	4.9	9.8	14.7	29.3	61.1	78.2	171.0	302.9
72.5°	4.9	4.9	4.9	9.8	14.7	26.9	56.2	80.6	163.7	256.5
75°	4.9	4.9	4.9	7.3	12.2	24.4	53.7	87.9	149.0	217.4
77.5°	4.9	4.9	4.9	4.9	9.8	19.5	48.9	97.7	131.9	175.9
80°	7.3	4.9	4.9	4.9	7.3	17.1	46.4	95.3	109.9	114.8
82.5°	7.3	4.9	4.9	2.4	4.9	12.2	36.6	73.3	56.2	51.3
85°	4.9	4.9	4.9	2.4	2.4	7.3	17.1	22.0	17.1	12.2
87.5°	4.9	4.9	4.9	2.4	2.4	2.4	2.4	2.4	2.4	2.4
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: SP1-2407-184-8

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

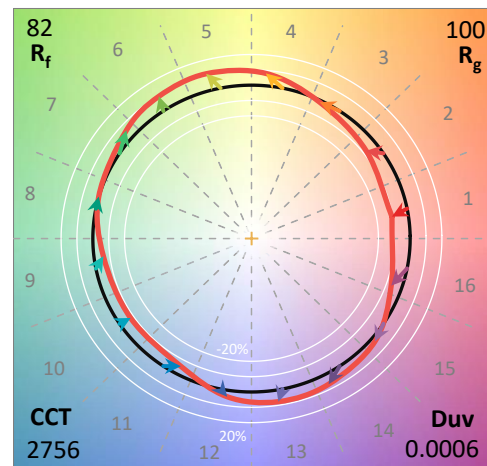
Test Information

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

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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

REPORT NUMBER: SP1-2407-184-8

Photopic Flux vs. Wavelength

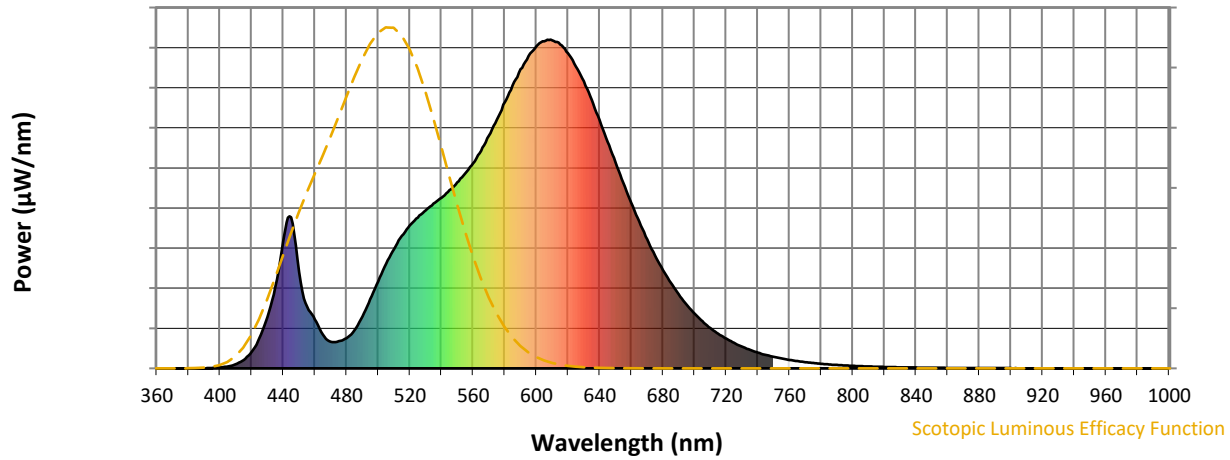


Photopic Lumens: NR

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			

REPORT NUMBER: SP1-2407-184-8

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

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

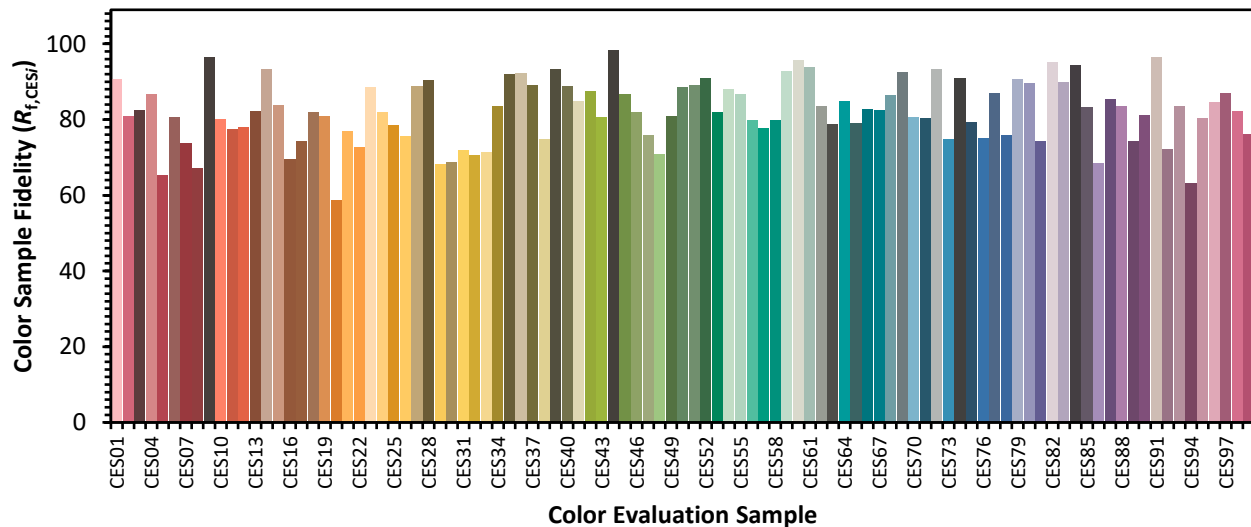


Color Vector Graphics



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)