

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: P1067935

Luminaire Tested: **NAV-SA5C-727-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067935
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA5C-727-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 1050mA 5xLight Square PACKAGE
70CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (70) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19931.6 lumens
Efficiency: N/A
Efficacy: 84.5 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): 236
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



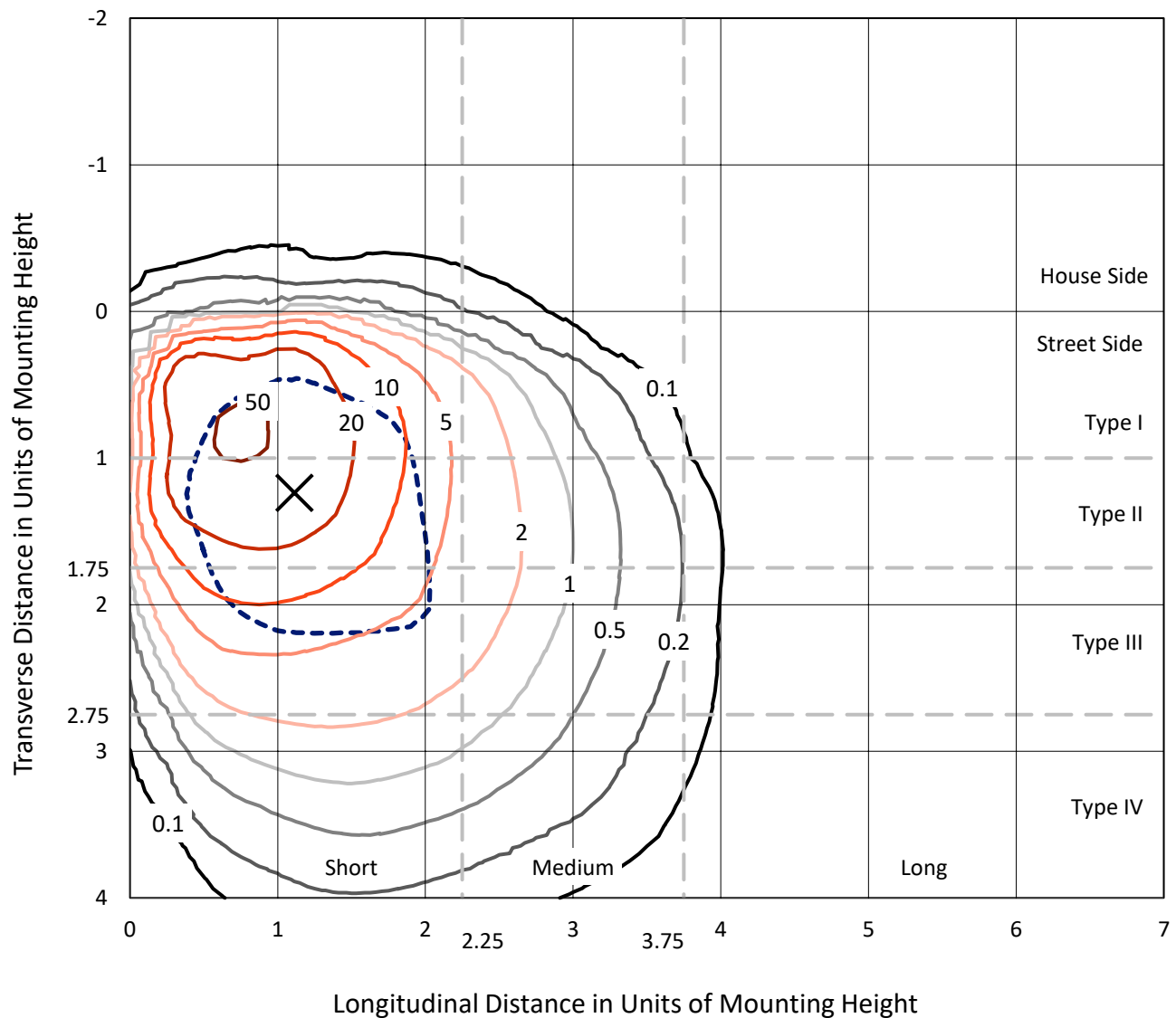
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

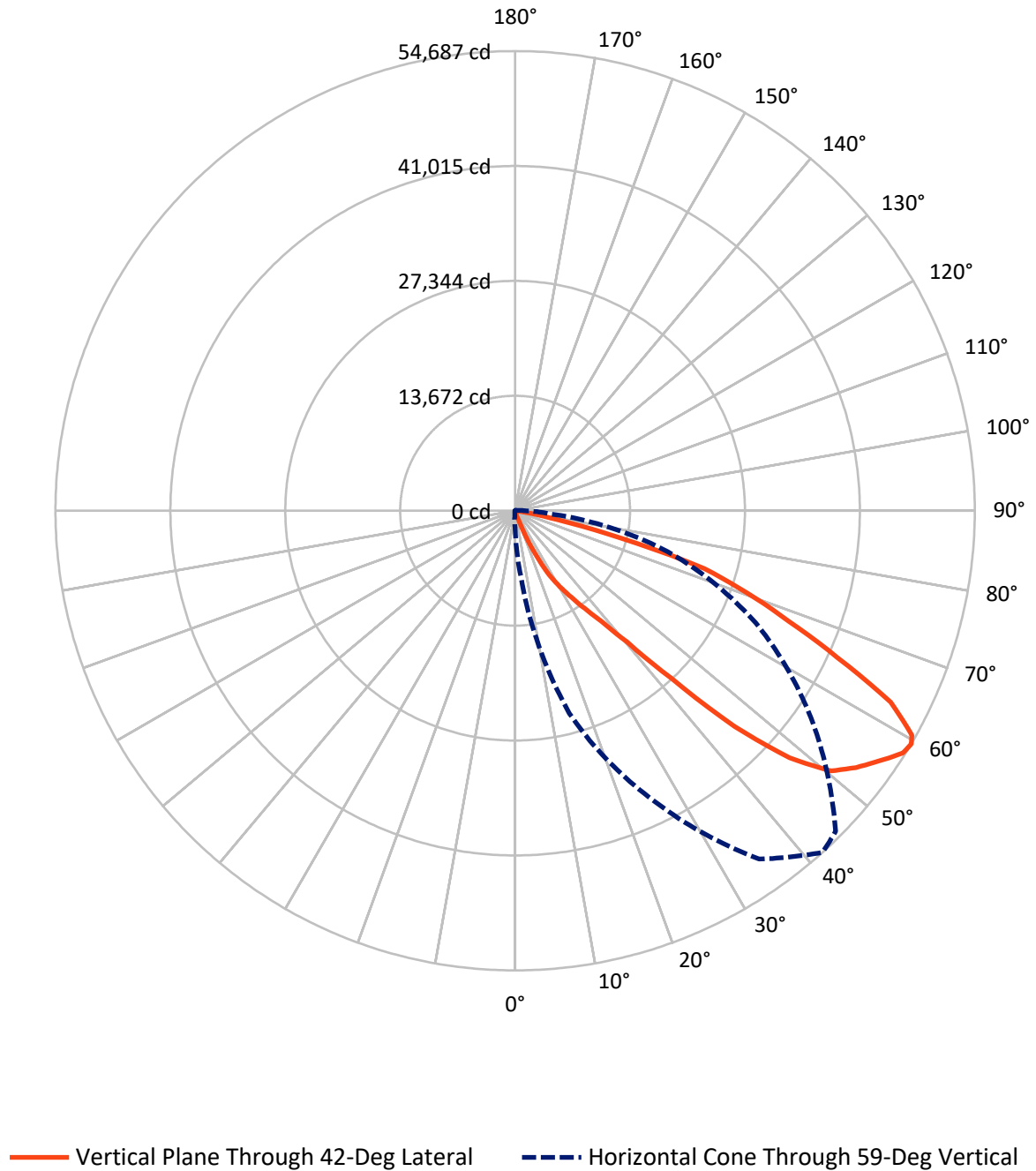


Based on 15 foot mounting height. Maximum calculated value = 59.2 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	96.0	0.0	96.0
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	19835.6	0.0	19835.6
	% Fixture	99.5	0.0	99.5
Total	Lumens	19931.6	0.0	19931.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.8	0.0
10°-20°	29.1	0.1
20°-30°	371.8	1.9
30°-40°	1253.4	6.3
40°-50°	3785.9	19.0
50°-60°	6683.1	33.5
60°-70°	5884.6	29.5
70°-80°	1873.1	9.4
80°-90°	44.8	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°	19931.6	100.0
0°-180°	19931.6	100.0



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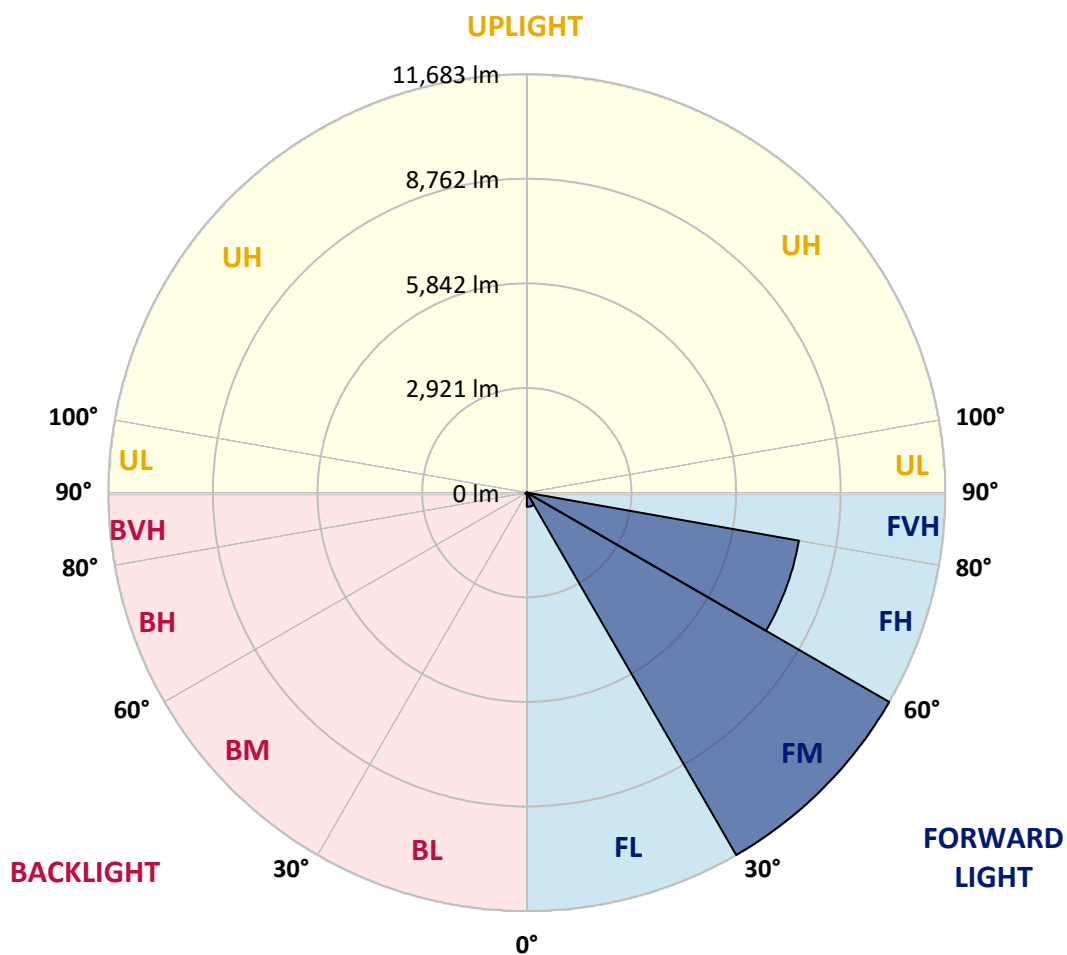
CATALOG NUMBER: NAV-SA5C-727-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	396.0	2.0			
FM	(30°-60°)	11683.2	58.6			
FH	(60°-80°)	7713.7	38.7			G4/12000
FVH	(80°-90°)	42.6	0.2			G1/100
BL	(0°-30°)	10.7	0.1	B0/110		
BM	(30°-60°)	39.2	0.2	B0/220		
BH	(60°-80°)	43.9	0.2	B0/110		G0/110
BVH	(80°-90°)	2.2	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
2.5°	87.5	87.5	81.2	75.0	68.7	62.5	62.5	62.5	56.2	56.2	50.0
5°	100.0	100.0	93.7	87.5	87.5	81.2	81.2	75.0	68.7	68.7	62.5
7.5°	106.2	106.2	106.2	106.2	100.0	100.0	100.0	93.7	87.5	81.2	75.0
10°	112.5	118.7	125.0	125.0	125.0	125.0	125.0	118.7	106.2	100.0	87.5
12.5°	125.0	131.2	143.7	156.2	156.2	156.2	156.2	150.0	137.5	118.7	100.0
15°	137.5	150.0	168.7	193.7	218.7	225.0	225.0	206.2	181.2	143.7	118.7
17.5°	156.2	175.0	225.0	306.2	393.7	462.4	462.4	412.4	287.5	187.5	137.5
20°	168.7	206.2	362.5	737.4	1124.9	1412.3	1356.1	1199.9	643.7	293.7	150.0
22.5°	187.5	262.5	768.7	1937.3	2999.6	3524.6	3399.6	2580.9	1443.6	524.9	181.2
25°	212.5	381.2	1524.8	3630.8	5574.3	6143.0	6061.8	4818.2	2630.9	881.1	231.2
27.5°	262.5	562.4	2443.4	5505.6	8224.0	8711.4	8680.2	7055.4	4205.7	1418.6	300.0
30°	331.2	818.6	3624.6	7480.3	9980.0	10473.7	10317.5	8692.7	5674.3	2168.5	387.5
32.5°	412.4	1143.6	4693.2	8936.4	11598.6	12248.5	12061.0	10117.5	6855.4	2805.9	574.9
35°	537.4	1462.3	5749.3	10223.7	13467.1	14292.0	13979.5	11586.1	7874.0	3524.6	693.7
37.5°	599.9	1649.8	6717.9	11623.6	15566.8	16691.7	16454.2	13442.1	8911.4	4443.2	849.9
40°	606.2	1874.8	7724.0	13448.3	18535.2	20541.2	20116.3	16629.2	10842.4	5624.3	1093.6
42.5°	624.9	2212.2	9030.1	16560.5	24365.8	27246.6	26765.5	22491.0	15223.1	7992.8	1549.8
45°	712.4	2849.6	11692.3	22378.5	32371.0	36595.5	36039.3	30658.7	21341.1	12448.5	2643.4
47.5°	1018.6	4287.0	16360.5	28659.0	40557.5	43925.8	43788.4	37095.4	26884.2	17016.7	4480.7
50°	1637.3	6580.4	21672.3	33939.6	45769.4	48662.8	48319.1	39782.6	30046.3	20135.0	5743.0
52.5°	2187.2	8773.9	25009.4	35883.1	47325.4	50775.0	50356.3	40763.7	30877.5	21053.7	6093.0
55°	2324.7	9567.6	26003.1	36483.0	48356.6	52562.3	51956.1	41419.9	30983.7	20397.5	5511.8
57.5°	2256.0	8817.7	25359.4	37070.4	49793.9	54399.6	53593.4	42701.0	31339.9	19285.1	4586.9
59°	2137.2	7892.8	24959.4	37539.1	50587.5	54687.0	53930.9	42982.2	31577.4	18778.9	4024.5
60°	1999.8	7267.9	24647.0	37845.3	50537.5	54237.1	53455.9	42851.0	31671.1	18341.5	3755.8
62.5°	1543.6	5799.3	24197.0	37626.6	47381.7	50131.3	49687.6	39638.9	30296.3	16941.7	2962.1
65°	1199.9	4437.0	22547.2	33558.4	40320.0	42169.8	42032.3	33564.6	25496.9	14604.5	2137.2
67.5°	949.9	3237.1	19066.4	27177.9	32439.8	35070.7	34970.7	27246.6	19353.9	11161.1	1537.3
70°	774.9	2306.0	13073.4	20491.2	25946.8	29258.9	29115.2	21928.6	14342.0	7080.4	1118.6
72.5°	656.2	1474.8	7930.3	15448.1	21653.6	23547.1	23128.4	17691.6	10430.0	3855.8	887.4
75°	556.2	906.1	3930.8	9630.1	12898.4	12885.9	12467.2	9367.6	5599.3	1887.3	706.2
77.5°	449.9	637.4	1543.6	2643.4	4068.2	5036.9	4955.6	3318.3	1674.8	549.9	437.4
80°	293.7	300.0	412.4	724.9	1118.6	1237.3	1406.1	1012.4	487.4	262.5	181.2
82.5°	131.2	143.7	187.5	237.5	237.5	218.7	193.7	143.7	106.2	87.5	43.7
85°	31.2	43.7	31.2	37.5	31.2	25.0	25.0	12.5	0.0	0.0	0.0
87.5°	6.2	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°	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
2.5°	50.0	50.0	50.0	43.7	43.7	43.7	37.5	37.5	37.5	31.2	31.2
5°	62.5	56.2	50.0	50.0	43.7	43.7	37.5	31.2	31.2	31.2	25.0
7.5°	68.7	62.5	56.2	50.0	43.7	37.5	37.5	31.2	25.0	25.0	25.0
10°	81.2	75.0	62.5	50.0	43.7	37.5	31.2	31.2	25.0	18.7	18.7
12.5°	93.7	81.2	68.7	56.2	43.7	37.5	31.2	31.2	25.0	18.7	12.5
15°	106.2	93.7	75.0	56.2	43.7	37.5	31.2	31.2	18.7	12.5	6.2
17.5°	118.7	100.0	75.0	62.5	43.7	37.5	31.2	25.0	12.5	6.2	0.0
20°	125.0	106.2	81.2	62.5	43.7	37.5	31.2	18.7	6.2	0.0	0.0
22.5°	137.5	118.7	87.5	62.5	43.7	31.2	18.7	6.2	0.0	0.0	0.0
25°	162.5	125.0	87.5	62.5	43.7	31.2	12.5	0.0	0.0	0.0	0.0
27.5°	181.2	137.5	87.5	62.5	43.7	25.0	6.2	0.0	0.0	0.0	0.0
30°	212.5	150.0	93.7	62.5	43.7	18.7	6.2	0.0	0.0	0.0	0.0
32.5°	262.5	162.5	93.7	62.5	37.5	18.7	0.0	0.0	0.0	0.0	0.0
35°	318.7	187.5	93.7	62.5	37.5	18.7	0.0	0.0	0.0	0.0	0.0
37.5°	325.0	200.0	93.7	62.5	37.5	12.5	0.0	0.0	0.0	0.0	0.0
40°	337.5	187.5	100.0	62.5	37.5	12.5	0.0	0.0	0.0	0.0	0.0
42.5°	387.5	175.0	106.2	62.5	37.5	12.5	0.0	0.0	0.0	0.0	0.0
45°	574.9	181.2	106.2	68.7	37.5	18.7	0.0	0.0	0.0	0.0	0.0
47.5°	999.9	187.5	100.0	68.7	37.5	18.7	0.0	0.0	0.0	0.0	0.0
50°	1281.1	218.7	100.0	75.0	43.7	12.5	0.0	0.0	0.0	0.0	0.0
52.5°	1362.3	256.2	100.0	81.2	56.2	6.2	0.0	0.0	0.0	0.0	0.0
55°	1324.8	300.0	106.2	87.5	68.7	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	1224.8	325.0	112.5	93.7	75.0	0.0	0.0	0.0	0.0	0.0	0.0
59°	1118.6	343.7	131.2	100.0	75.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	1031.1	362.5	137.5	106.2	75.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	831.1	387.5	150.0	125.0	62.5	0.0	0.0	0.0	0.0	0.0	0.0
65°	724.9	406.2	156.2	137.5	56.2	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	662.4	418.7	168.7	143.7	50.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	612.4	412.4	181.2	137.5	43.7	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	556.2	393.7	218.7	125.0	37.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	499.9	356.2	237.5	112.5	25.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	362.5	300.0	218.7	100.0	12.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	156.2	162.5	156.2	75.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	31.2	37.5	31.2	18.7	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°	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
2.5°	31.2	31.2	31.2	31.2	37.5	37.5	50.0	62.5	75.0	81.2	81.2
5°	25.0	25.0	25.0	25.0	25.0	31.2	37.5	50.0	68.7	75.0	75.0
7.5°	18.7	18.7	18.7	18.7	18.7	18.7	31.2	43.7	62.5	68.7	75.0
10°	18.7	12.5	12.5	6.2	6.2	12.5	18.7	37.5	56.2	62.5	68.7
12.5°	12.5	6.2	6.2	0.0	0.0	6.2	12.5	31.2	50.0	56.2	62.5
15°	6.2	0.0	0.0	0.0	0.0	0.0	6.2	25.0	43.7	50.0	62.5
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.7	37.5	50.0	56.2
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5	31.2	43.7	50.0
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	25.0	37.5	43.7
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.7	25.0	31.2
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5	18.7	25.0
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5	18.7	25.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	12.5	18.7
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	12.5	18.7
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	12.5	12.5
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	12.5
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	12.5
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	12.5
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	12.5
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	12.5
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	6.2
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	6.2
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	6.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	12.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	12.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	6.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	6.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	6.2
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°	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
2.5°	87.5	87.5	81.2	75.0	75.0	75.0	81.2	87.5	87.5	87.5
5°	81.2	81.2	75.0	75.0	75.0	75.0	81.2	93.7	100.0	100.0
7.5°	81.2	81.2	75.0	75.0	75.0	75.0	81.2	93.7	100.0	106.2
10°	75.0	75.0	75.0	75.0	68.7	75.0	81.2	93.7	112.5	112.5
12.5°	75.0	75.0	75.0	75.0	68.7	75.0	87.5	100.0	118.7	125.0
15°	75.0	75.0	75.0	68.7	68.7	75.0	87.5	106.2	125.0	137.5
17.5°	68.7	75.0	75.0	68.7	68.7	75.0	87.5	106.2	137.5	156.2
20°	62.5	68.7	75.0	68.7	68.7	68.7	87.5	106.2	143.7	168.7
22.5°	56.2	62.5	68.7	68.7	62.5	68.7	87.5	112.5	156.2	187.5
25°	50.0	56.2	56.2	62.5	62.5	68.7	87.5	112.5	162.5	212.5
27.5°	37.5	43.7	50.0	56.2	56.2	68.7	87.5	118.7	175.0	262.5
30°	31.2	37.5	43.7	50.0	56.2	68.7	87.5	118.7	187.5	331.2
32.5°	31.2	37.5	43.7	50.0	56.2	62.5	87.5	125.0	206.2	412.4
35°	25.0	31.2	37.5	50.0	50.0	62.5	87.5	125.0	225.0	537.4
37.5°	25.0	31.2	37.5	50.0	50.0	62.5	87.5	125.0	275.0	599.9
40°	18.7	25.0	31.2	50.0	50.0	62.5	93.7	131.2	281.2	606.2
42.5°	18.7	25.0	31.2	43.7	50.0	62.5	93.7	131.2	262.5	624.9
45°	18.7	25.0	31.2	50.0	56.2	68.7	93.7	137.5	256.2	712.4
47.5°	18.7	25.0	31.2	50.0	62.5	68.7	93.7	137.5	262.5	1018.6
50°	18.7	25.0	31.2	50.0	68.7	68.7	93.7	137.5	287.5	1637.3
52.5°	12.5	18.7	25.0	43.7	56.2	75.0	100.0	131.2	306.2	2187.2
55°	12.5	12.5	18.7	37.5	50.0	81.2	106.2	131.2	356.2	2324.7
57.5°	12.5	12.5	18.7	31.2	43.7	87.5	112.5	131.2	412.4	2256.0
59°	12.5	12.5	12.5	31.2	37.5	87.5	112.5	137.5	418.7	2137.2
60°	12.5	12.5	12.5	25.0	37.5	87.5	118.7	143.7	424.9	1999.8
62.5°	6.2	6.2	6.2	25.0	31.2	87.5	131.2	175.0	437.4	1543.6
65°	12.5	12.5	6.2	18.7	31.2	75.0	150.0	187.5	443.7	1199.9
67.5°	12.5	12.5	12.5	25.0	31.2	75.0	156.2	193.7	443.7	949.9
70°	12.5	12.5	12.5	25.0	37.5	75.0	156.2	200.0	437.4	774.9
72.5°	12.5	12.5	12.5	25.0	37.5	68.7	143.7	206.2	418.7	656.2
75°	12.5	12.5	12.5	18.7	31.2	62.5	137.5	225.0	381.2	556.2
77.5°	12.5	12.5	12.5	12.5	25.0	50.0	125.0	250.0	337.5	449.9
80°	18.7	12.5	12.5	12.5	18.7	43.7	118.7	243.7	281.2	293.7
82.5°	18.7	12.5	12.5	6.2	12.5	31.2	93.7	187.5	143.7	131.2
85°	12.5	12.5	12.5	6.2	6.2	18.7	43.7	56.2	43.7	31.2
87.5°	12.5	12.5	12.5	6.2	6.2	6.2	6.2	6.2	6.2	6.2
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



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-3

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 [^] /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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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

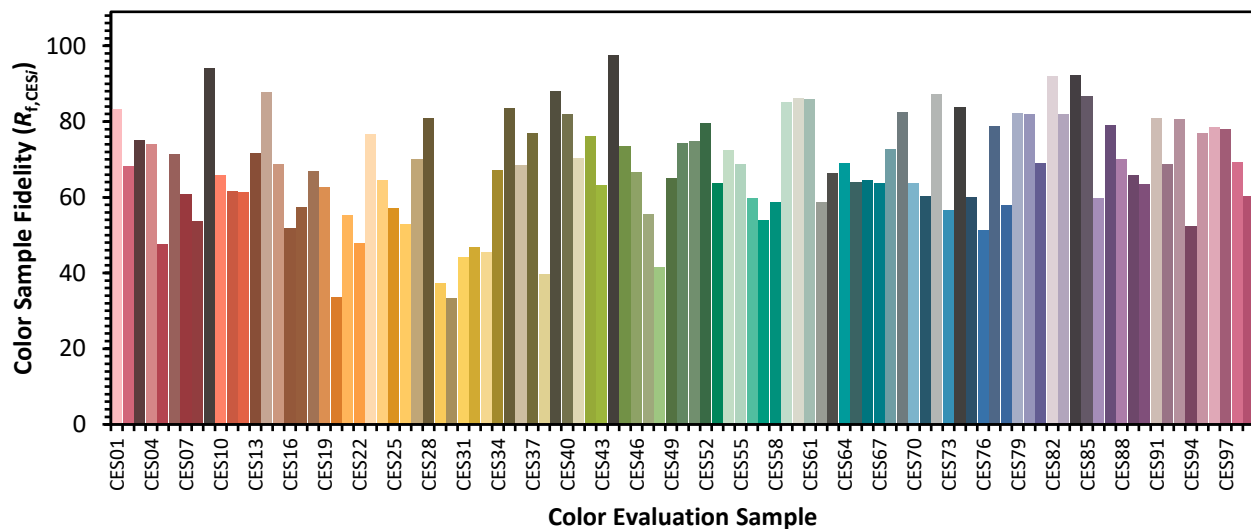


Color Vector Graphics



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)