

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: P1049531

Luminaire Tested: **GALN-SA9C-722-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049531
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9C-722-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 9xLight Square PACKAGE
70CRI 2200K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (126) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32904.1 lumens
Efficiency: N/A
Efficacy: 78.9 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): 417.1
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

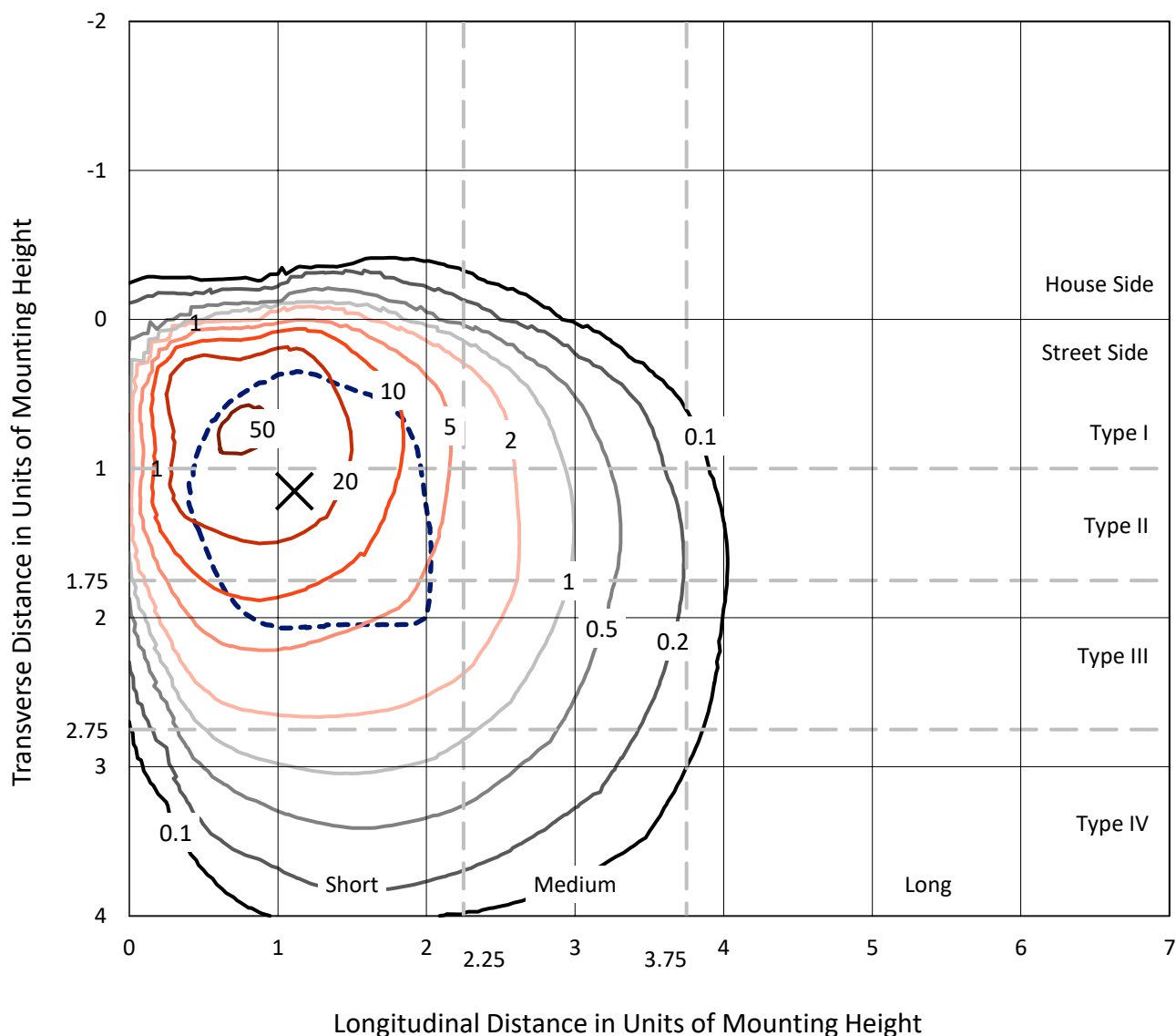
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

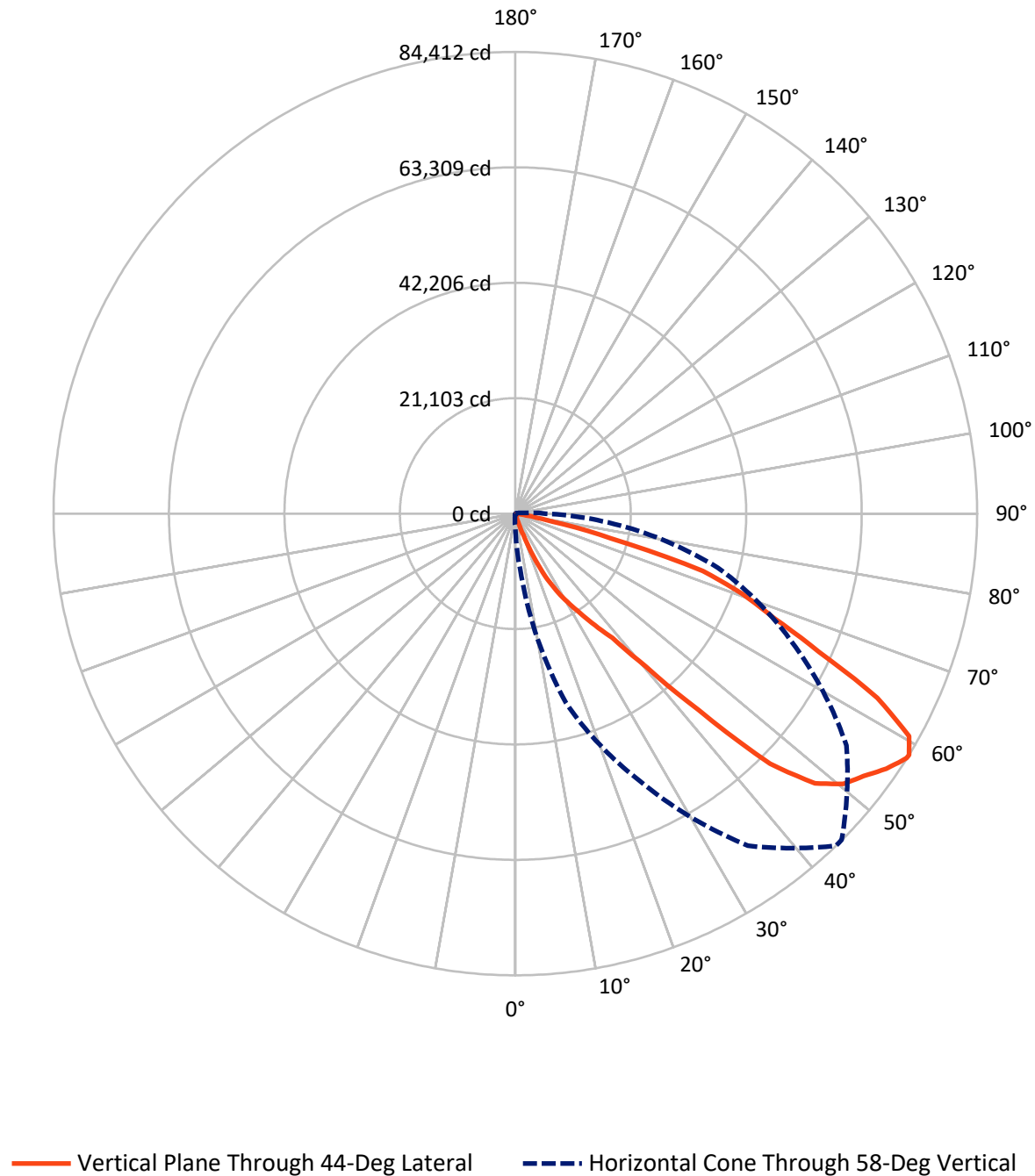
--- 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 57.3 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	224.7	0.0	224.7
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	32679.5	0.0	32679.5
	% Fixture	99.3	0.0	99.3
Total	Lumens	32904.1	0.0	32904.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.9	0.0
10°-20°	72.2	0.2
20°-30°	779.5	2.4
30°-40°	2305.3	7.0
40°-50°	6870.9	20.9
50°-60°	10902.5	33.1
60°-70°	9094.0	27.6
70°-80°	2804.7	8.5
80°-90°	62.3	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°	32904.1	100.0
0°-180°	32904.1	100.0



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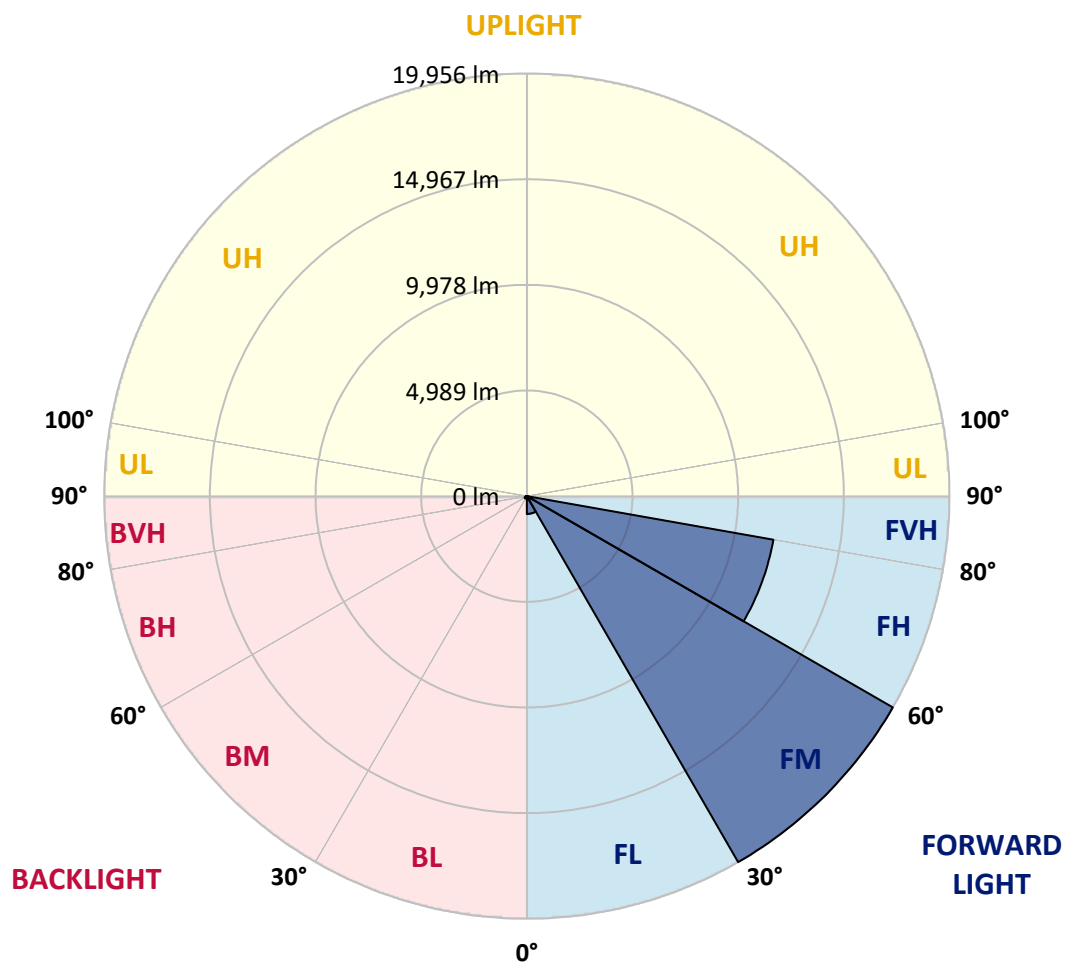
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	842.5	2.6			
FM	(30°-60°)	19955.7	60.6			
FH	(60°-80°)	11822.0	35.9			G4/12000
FVH	(80°-90°)	59.3	0.2			G1/100
BL	(0°-30°)	22.0	0.1	B0/110		
BM	(30°-60°)	123.0	0.4	B0/220		
BH	(60°-80°)	76.7	0.2	B0/110		G0/110
BVH	(80°-90°)	3.0	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°	44°	45°	55°	65°	75°	85°
0°	144.2	144.2	144.2	144.2	144.2	144.2	144.2	144.2	144.2	144.2	144.2
2.5°	186.4	186.4	179.0	169.0	159.1	149.1	146.7	141.7	139.2	136.7	134.2
5°	193.9	193.9	191.4	183.9	174.0	166.5	166.5	159.1	154.1	149.1	144.2
7.5°	198.9	201.3	206.3	203.8	198.9	191.4	191.4	186.4	179.0	166.5	159.1
10°	206.3	213.8	223.7	228.7	231.2	231.2	228.7	226.2	213.8	196.4	176.5
12.5°	213.8	228.7	253.5	278.4	293.3	313.2	310.7	305.7	273.4	236.1	201.3
15°	228.7	251.0	303.2	375.3	487.2	556.8	584.1	559.3	452.4	318.2	233.6
17.5°	246.1	283.4	440.0	785.5	1287.6	1526.2	1670.3	1553.5	1029.0	604.0	293.3
20°	263.5	345.5	817.8	2035.7	3340.7	4121.2	4337.4	3999.4	2567.7	1150.8	435.0
22.5°	293.3	484.7	1657.9	4208.2	7198.4	8369.1	8590.3	7509.1	4849.5	2271.9	653.7
25°	355.4	703.4	2858.5	6857.8	10742.9	12719.0	12627.0	11210.2	7867.0	3629.0	994.3
27.5°	444.9	1024.1	4322.5	9743.7	14138.2	15880.7	16089.5	14337.1	10486.9	5336.6	1411.8
30°	574.2	1419.3	5893.4	12055.3	16860.0	18744.1	18778.9	16966.9	12830.8	6835.5	1923.9
32.5°	698.5	1792.1	7268.0	14289.9	19542.0	21607.6	21761.7	19532.1	14580.7	8396.4	2368.8
35°	792.9	2035.7	8659.9	16253.5	22246.4	25092.4	25082.5	22435.3	16653.7	9790.9	2985.2
37.5°	800.4	2279.3	9920.1	18261.9	25671.6	28858.1	29173.8	26255.7	19159.2	11515.9	3740.9
40°	783.0	2552.7	11515.9	21393.8	31843.4	36732.6	37011.0	33332.3	24185.1	14468.8	4921.5
42.5°	802.9	3027.5	14105.9	27177.8	42091.6	49113.5	49650.4	45782.8	33424.2	20494.0	7026.9
45°	907.3	3919.8	19532.1	36854.4	56699.6	65260.1	65081.2	59510.9	44174.6	29666.0	11192.8
47.5°	1252.8	6104.7	27575.5	46272.4	66035.6	73659.1	73813.2	67005.0	50448.3	36717.7	16802.8
50°	1926.4	9341.0	34334.0	51251.1	70049.9	77698.2	77554.0	69687.0	52832.0	40190.1	20240.5
52.5°	2505.5	11682.4	37724.4	52998.5	70564.5	79694.2	79684.2	70392.9	53202.4	40488.4	20670.5
55°	2649.7	11858.9	37751.7	53093.0	71717.8	82306.6	82634.7	72130.4	53682.1	39185.9	19052.3
57.5°	2592.5	10499.3	36175.8	53639.8	73770.9	84327.4	84344.8	73813.2	54900.0	38388.0	16372.8
58°	2542.8	10285.5	35857.7	53950.5	74123.9	84411.9	84369.6	73890.2	55891.8	38358.2	15952.8
60°	2264.4	8930.9	34617.3	54743.4	73599.4	82676.9	82281.7	72207.5	55745.2	38052.5	13837.5
62.5°	1779.7	6967.2	33396.9	53826.2	67976.9	74278.0	74442.0	63927.8	50818.6	36270.3	11344.4
65°	1416.8	5192.5	30851.6	47214.5	55976.3	60997.3	61608.7	51984.4	42417.2	30712.4	8364.1
67.5°	1128.5	3753.3	25880.3	37590.1	44293.9	50908.1	51353.0	43645.1	32862.5	23531.4	5943.1
70°	917.2	2537.8	17864.2	27491.0	36533.7	43970.7	43998.1	36257.8	24528.2	15418.3	3728.4
72.5°	812.8	1757.3	10370.0	20049.1	29623.7	35830.3	35107.0	29422.4	18851.0	9132.2	2222.2
75°	703.4	1165.8	5085.6	12256.6	17961.1	18082.9	18358.8	13648.6	9423.0	4342.4	1332.3
77.5°	579.2	827.7	2003.4	3348.1	5386.4	6895.1	7151.1	5418.7	3134.4	1068.8	710.9
80°	397.7	392.7	539.4	1026.6	1541.1	1931.3	1802.1	1394.4	820.3	410.1	253.5
82.5°	171.5	186.4	243.6	293.3	238.6	231.2	221.2	141.7	109.4	84.5	52.2
85°	54.7	49.7	52.2	52.2	42.3	32.3	32.3	14.9	0.0	0.0	0.0
87.5°	27.3	22.4	22.4	19.9	12.4	5.0	2.5	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°	144.2	144.2	144.2	144.2	144.2	144.2	144.2	144.2	144.2	144.2	144.2
2.5°	131.7	131.7	126.8	121.8	119.3	114.3	111.9	109.4	106.9	104.4	101.9
5°	139.2	136.7	129.3	121.8	114.3	106.9	101.9	96.9	92.0	89.5	87.0
7.5°	151.6	146.7	131.7	119.3	109.4	99.4	94.5	87.0	82.0	74.6	72.1
10°	166.5	156.6	136.7	121.8	106.9	94.5	87.0	79.5	72.1	62.1	59.7
12.5°	186.4	169.0	144.2	119.3	101.9	87.0	79.5	69.6	62.1	54.7	49.7
15°	203.8	181.5	146.7	119.3	96.9	79.5	69.6	59.7	52.2	42.3	37.3
17.5°	228.7	191.4	144.2	111.9	89.5	69.6	59.7	52.2	39.8	24.9	19.9
20°	270.9	198.9	139.2	104.4	77.1	57.2	44.7	34.8	17.4	5.0	0.0
22.5°	338.0	218.7	134.2	94.5	67.1	44.7	29.8	12.4	0.0	0.0	0.0
25°	467.3	253.5	134.2	89.5	59.7	32.3	9.9	0.0	0.0	0.0	0.0
27.5°	621.4	300.8	134.2	77.1	47.2	17.4	0.0	0.0	0.0	0.0	0.0
30°	778.0	353.0	134.2	67.1	37.3	2.5	0.0	0.0	0.0	0.0	0.0
32.5°	927.1	397.7	136.7	57.2	24.9	0.0	0.0	0.0	0.0	0.0	0.0
35°	1078.8	405.2	134.2	49.7	14.9	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	1272.6	390.2	126.8	44.7	7.5	0.0	0.0	0.0	0.0	0.0	0.0
40°	1565.9	397.7	119.3	42.3	2.5	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2107.8	430.0	109.4	42.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3643.9	576.7	99.4	44.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6027.6	1036.5	96.9	44.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	7693.0	1305.0	101.9	47.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7680.6	1454.1	106.9	49.7	9.9	0.0	0.0	0.0	0.0	0.0	0.0
55°	6828.0	1481.4	114.3	54.7	32.3	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	5707.0	1352.2	131.7	67.1	59.7	0.0	0.0	0.0	0.0	0.0	0.0
58°	5508.1	1292.5	136.7	69.6	64.6	0.0	0.0	0.0	0.0	0.0	0.0
60°	4513.9	1053.9	174.0	87.0	87.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	3117.0	919.7	198.9	111.9	89.5	0.0	0.0	0.0	0.0	0.0	0.0
65°	2204.8	830.2	216.2	119.3	72.1	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1648.0	765.6	238.6	121.8	37.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	1262.7	718.3	293.3	129.3	9.9	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1029.0	663.7	355.4	134.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	852.6	599.0	343.0	146.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	566.7	464.8	313.2	146.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	198.9	183.9	243.6	129.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	29.8	24.9	34.8	44.7	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°	144.2	144.2	144.2	144.2	144.2	144.2	144.2	144.2	144.2	144.2	144.2
2.5°	101.9	101.9	99.4	101.9	101.9	106.9	119.3	136.7	156.6	164.1	171.5
5°	84.5	82.0	79.5	79.5	79.5	87.0	96.9	116.8	139.2	149.1	154.1
7.5°	69.6	67.1	64.6	62.1	62.1	67.1	79.5	101.9	124.3	134.2	141.7
10°	57.2	52.2	49.7	47.2	47.2	52.2	64.6	87.0	111.9	121.8	131.7
12.5°	47.2	39.8	34.8	32.3	29.8	37.3	49.7	69.6	96.9	109.4	119.3
15°	32.3	24.9	17.4	14.9	12.4	19.9	32.3	54.7	82.0	96.9	106.9
17.5°	17.4	7.5	2.5	0.0	0.0	5.0	14.9	39.8	67.1	79.5	92.0
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.9	49.7	62.1	74.6
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	29.8	42.3	54.7
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.4	22.4	32.3
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	14.9
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	2.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	14.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	19.9	27.3
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°	144.2	144.2	144.2	144.2	144.2	144.2	144.2	144.2	144.2	144.2
2.5°	176.5	174.0	169.0	164.1	164.1	164.1	171.5	179.0	186.4	186.4
5°	164.1	164.1	161.6	156.6	156.6	159.1	169.0	181.5	191.4	193.9
7.5°	151.6	156.6	151.6	149.1	151.6	154.1	164.1	179.0	193.9	198.9
10°	144.2	146.7	146.7	144.2	144.2	149.1	159.1	179.0	198.9	206.3
12.5°	134.2	139.2	136.7	136.7	136.7	141.7	154.1	176.5	203.8	213.8
15°	124.3	131.7	131.7	129.3	129.3	131.7	149.1	174.0	211.3	228.7
17.5°	114.3	121.8	124.3	119.3	119.3	124.3	141.7	174.0	216.2	246.1
20°	94.5	106.9	114.3	106.9	106.9	111.9	129.3	164.1	218.7	263.5
22.5°	74.6	87.0	96.9	94.5	94.5	96.9	119.3	156.6	221.2	293.3
25°	54.7	67.1	74.6	79.5	79.5	87.0	109.4	151.6	231.2	355.4
27.5°	32.3	47.2	57.2	62.1	64.6	74.6	101.9	146.7	248.6	444.9
30°	14.9	27.3	39.8	49.7	49.7	67.1	94.5	141.7	270.9	574.2
32.5°	0.0	12.4	19.9	34.8	37.3	54.7	87.0	136.7	303.2	698.5
35°	0.0	0.0	9.9	27.3	27.3	44.7	79.5	131.7	353.0	792.9
37.5°	0.0	0.0	0.0	19.9	22.4	39.8	77.1	129.3	362.9	800.4
40°	0.0	0.0	0.0	14.9	17.4	37.3	77.1	131.7	328.1	783.0
42.5°	0.0	0.0	0.0	9.9	12.4	37.3	77.1	136.7	295.8	802.9
45°	0.0	0.0	0.0	7.5	9.9	39.8	74.6	134.2	278.4	907.3
47.5°	0.0	0.0	0.0	9.9	14.9	39.8	72.1	131.7	280.9	1252.8
50°	0.0	0.0	0.0	12.4	17.4	39.8	74.6	126.8	308.2	1926.4
52.5°	0.0	0.0	0.0	9.9	14.9	44.7	82.0	124.3	335.6	2505.5
55°	0.0	0.0	0.0	2.5	7.5	57.2	89.5	124.3	377.8	2649.7
57.5°	0.0	0.0	0.0	0.0	0.0	64.6	101.9	131.7	447.4	2592.5
58°	0.0	0.0	0.0	0.0	0.0	64.6	104.4	131.7	452.4	2542.8
60°	0.0	0.0	0.0	0.0	0.0	64.6	114.3	146.7	487.2	2264.4
62.5°	0.0	0.0	0.0	0.0	0.0	54.7	136.7	183.9	507.1	1779.7
65°	0.0	0.0	0.0	0.0	0.0	44.7	161.6	201.3	522.0	1416.8
67.5°	0.0	0.0	0.0	0.0	0.0	42.3	166.5	203.8	529.4	1128.5
70°	0.0	0.0	0.0	0.0	0.0	44.7	164.1	218.7	554.3	917.2
72.5°	0.0	0.0	0.0	0.0	0.0	49.7	149.1	241.1	554.3	812.8
75°	0.0	0.0	0.0	0.0	0.0	52.2	139.2	270.9	504.6	703.4
77.5°	0.0	0.0	0.0	0.0	0.0	49.7	136.7	315.7	449.9	579.2
80°	5.0	7.5	7.5	5.0	5.0	42.3	134.2	320.6	382.8	397.7
82.5°	14.9	19.9	17.4	12.4	12.4	37.3	119.3	268.4	198.9	171.5
85°	27.3	32.3	32.3	27.3	27.3	34.8	74.6	96.9	67.1	54.7
87.5°	37.3	42.3	42.3	37.3	37.3	34.8	32.3	29.8	27.3	27.3
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: SP1-2407-184-2

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-722-U-5WQ

Data in this report applies to families of products including GSS-SB1A-722-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-2
 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-722-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 2200K CCT 26 LEDS

Spectral Parameters

CCT (K):	2160	CRI (Ra):	71.9		
CIE u':	0.2927	R1:	68.7	R9:	-17.8
CIE v':	0.5388	R2:	82.6	R10:	60.5
Duv:	0.0015	R3:	95.5	R11:	60.2
CIE x:	0.5130	R4:	66.4	R12:	48.2
CIE y:	0.4197	R5:	65.4	R13:	70.7
CIE z:	0.0674	R6:	75.9	R14:	96.8
Peak Wavelength (nm):	609	R7:	77.2	R15:	61.8
Dominant Wavelength (nm):	587	R8:	43.5		
Purity:	79.96089				
Rf:	70.6				
Rg:	97.6				



Test Conditions

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

REPORT NUMBER: SP1-2407-184-2

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 2200K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-2

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	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

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Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 0.8

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	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-2

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.21

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	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

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TM-30-18

Summary

$R_f = 70.6$
 $R_g = 97.6$
 $CIE R_a = 71.9$
 $R_g = -17.8$



Color Vector Graphics



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

CES01 = 87	CES26 = 60	CES51 = 74	CES76 = 58
CES02 = 65	CES27 = 77	CES52 = 77	CES77 = 82
CES03 = 32	CES28 = 85	CES53 = 65	CES78 = 65
CES04 = 72	CES29 = 50	CES54 = 77	CES79 = 86
CES05 = 52	CES30 = 49	CES55 = 74	CES80 = 85
CES06 = 53	CES31 = 55	CES56 = 64	CES81 = 61
CES07 = 44	CES32 = 55	CES57 = 60	CES82 = 93
CES08 = 43	CES33 = 55	CES58 = 64	CES83 = 83
CES09 = 29	CES34 = 75	CES59 = 84	CES84 = 93
CES10 = 79	CES35 = 88	CES60 = 89	CES85 = 81
CES11 = 62	CES36 = 78	CES61 = 84	CES86 = 55
CES12 = 68	CES37 = 82	CES62 = 68	CES87 = 79
CES13 = 45	CES38 = 54	CES63 = 68	CES88 = 72
CES14 = 75	CES39 = 90	CES64 = 69	CES89 = 62
CES15 = 72	CES40 = 86	CES65 = 66	CES90 = 67
CES16 = 49	CES41 = 75	CES66 = 64	CES91 = 89
CES17 = 51	CES42 = 83	CES67 = 63	CES92 = 67
CES18 = 57	CES43 = 68	CES68 = 71	CES93 = 78
CES19 = 74	CES44 = 98	CES69 = 81	CES94 = 52
CES20 = 68	CES45 = 76	CES70 = 65	CES95 = 76
CES21 = 89	CES46 = 68	CES71 = 64	CES96 = 78
CES22 = 81	CES47 = 60	CES72 = 88	CES97 = 76
CES23 = 92	CES48 = 47	CES73 = 59	CES98 = 71
CES24 = 92	CES49 = 65	CES74 = 85	CES99 = 65
CES25 = 74	CES50 = 74	CES75 = 66	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)