

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: P1049519

Luminaire Tested: **GALN-SA6C-722-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049519
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6C-722-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 6xLight Square PACKAGE
70CRI 2200K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (84) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22134.9 lumens
Efficiency: N/A
Efficacy: 78.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

Input Watts (W): 282.5
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

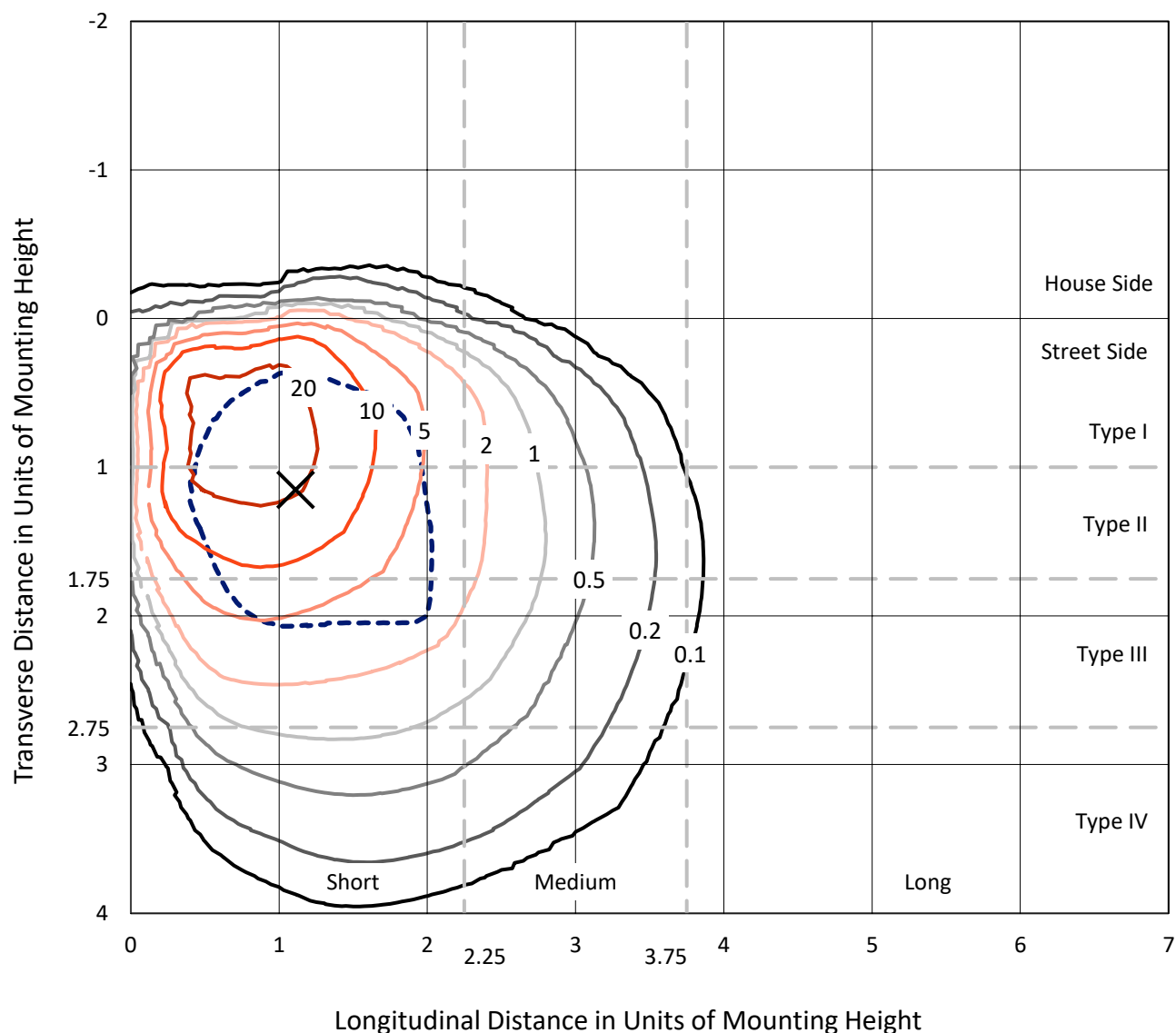
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

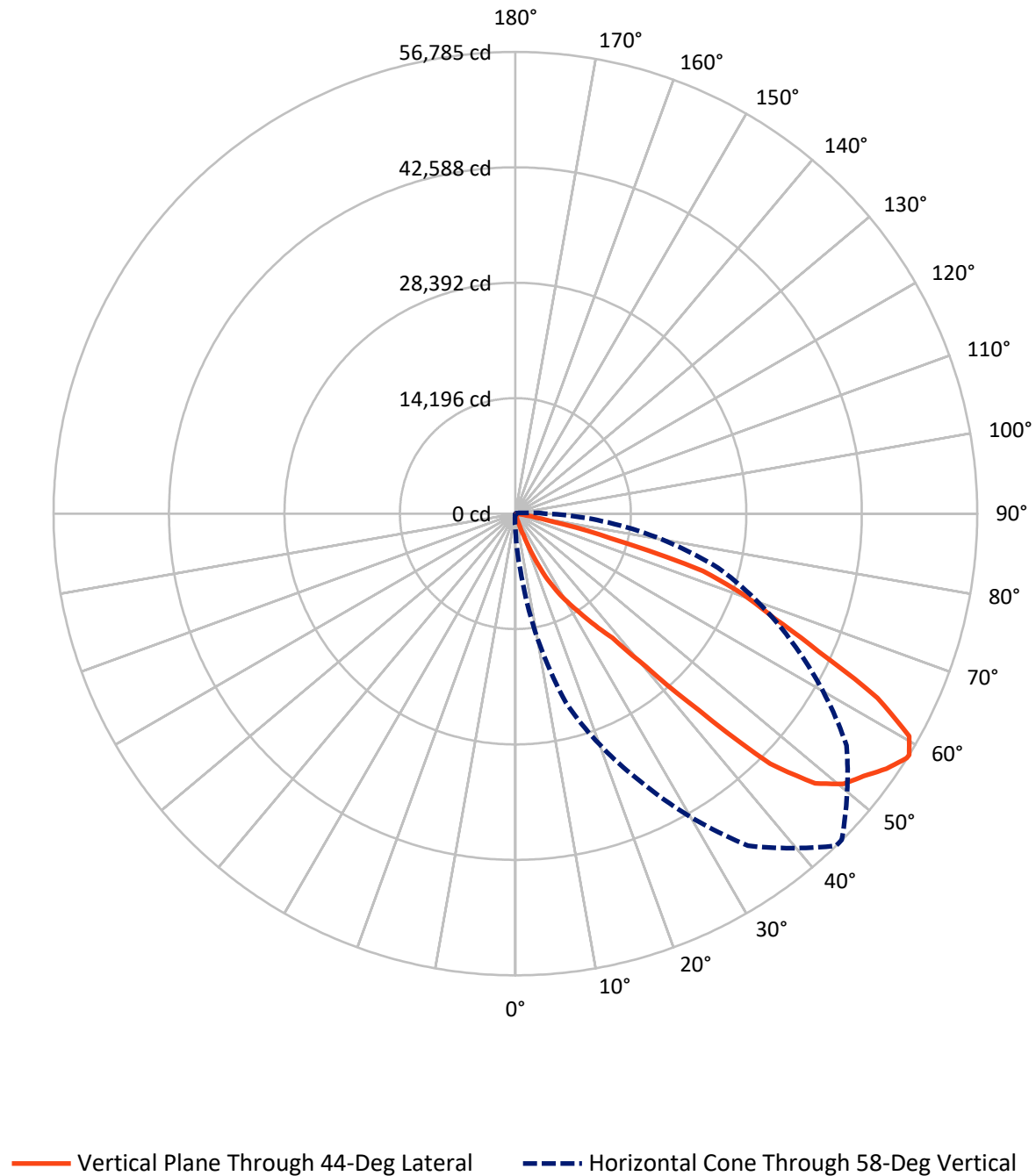


Based on 20 foot mounting height. Maximum calculated value = 38.5 fc

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	151.1	0.0	151.1
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	21983.7	0.0	21983.7
	% Fixture	99.3	0.0	99.3
Total	Lumens	22134.9	0.0	22134.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.7	0.0
10°-20°	48.5	0.2
20°-30°	524.4	2.4
30°-40°	1550.8	7.0
40°-50°	4622.1	20.9
50°-60°	7334.2	33.1
60°-70°	6117.6	27.6
70°-80°	1886.8	8.5
80°-90°	41.9	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°	22134.9	100.0
0°-180°	22134.9	100.0



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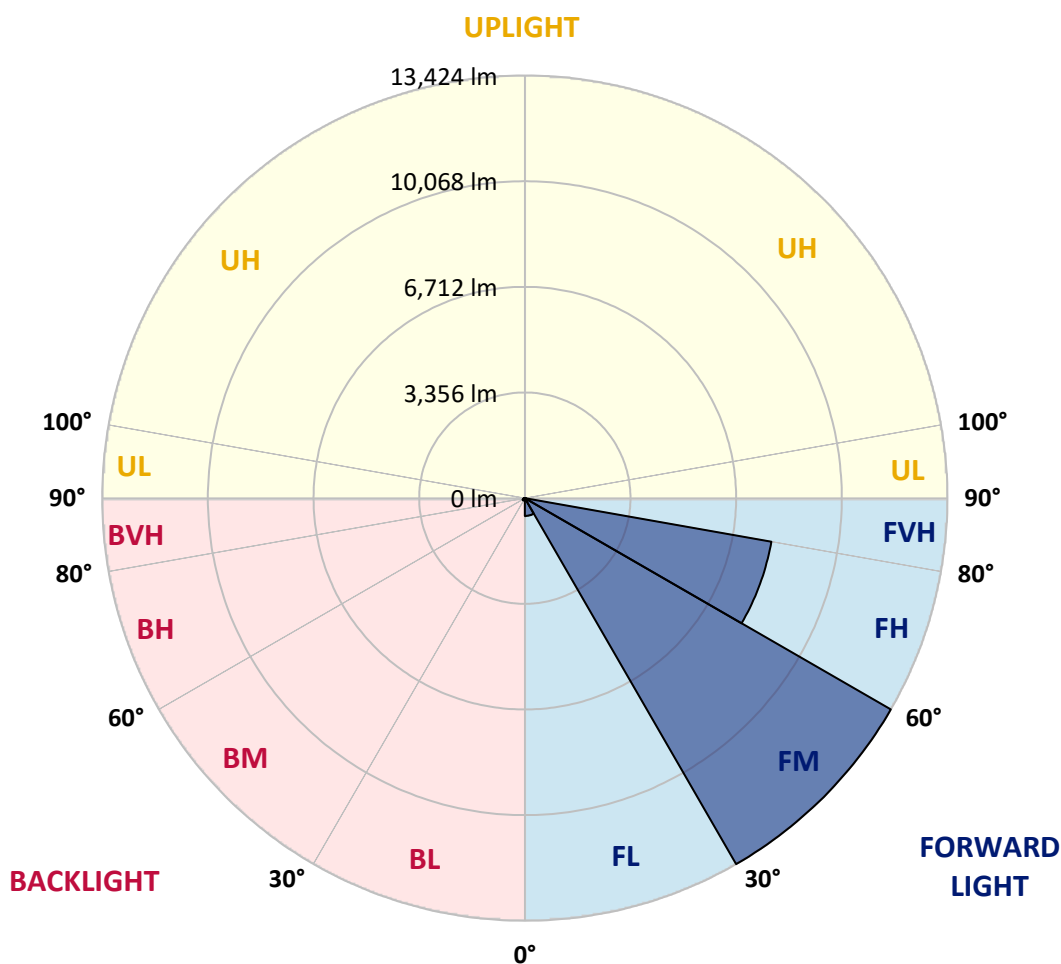
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	566.8	2.6			
FM	(30°-60°)	13424.3	60.6			
FH	(60°-80°)	7952.7	35.9			G4/12000
FVH	(80°-90°)	39.9	0.2			G1/100
BL	(0°-30°)	14.8	0.1	B0/110		
BM	(30°-60°)	82.7	0.4	B0/220		
BH	(60°-80°)	51.6	0.2	B0/110		G0/110
BVH	(80°-90°)	2.0	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°	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
2.5°	125.4	125.4	120.4	113.7	107.0	100.3	98.7	95.3	93.6	92.0	90.3
5°	130.4	130.4	128.8	123.7	117.0	112.0	112.0	107.0	103.7	100.3	97.0
7.5°	133.8	135.4	138.8	137.1	133.8	128.8	128.8	125.4	120.4	112.0	107.0
10°	138.8	143.8	150.5	153.8	155.5	155.5	153.8	152.2	143.8	132.1	118.7
12.5°	143.8	153.8	170.6	187.3	197.3	210.7	209.0	205.7	183.9	158.8	135.4
15°	153.8	168.9	204.0	252.5	327.7	374.6	392.9	376.2	304.3	214.0	157.2
17.5°	165.5	190.6	296.0	528.4	866.1	1026.7	1123.7	1045.1	692.3	406.3	197.3
20°	177.2	232.4	550.1	1369.5	2247.3	2772.3	2917.8	2690.4	1727.3	774.2	292.6
22.5°	197.3	326.1	1115.3	2830.9	4842.4	5630.0	5778.8	5051.4	3262.3	1528.3	439.8
25°	239.1	473.2	1922.9	4613.3	7226.8	8556.1	8494.3	7541.2	5292.2	2441.3	668.8
27.5°	299.3	688.9	2907.8	6554.6	9510.9	10683.1	10823.5	9644.7	7054.6	3590.0	949.8
30°	386.3	954.8	3964.6	8109.7	11341.9	12609.3	12632.7	11413.8	8631.4	4598.3	1294.2
32.5°	469.9	1205.6	4889.2	9612.9	13146.1	14535.6	14639.3	13139.4	9808.5	5648.4	1593.5
35°	533.4	1369.5	5825.6	10933.9	14965.3	16879.9	16873.2	15092.4	11203.1	6586.4	2008.2
37.5°	538.4	1533.3	6673.4	12284.9	17269.5	19413.1	19625.5	17662.4	12888.6	7746.8	2516.5
40°	526.7	1717.2	7746.8	14391.8	21421.3	24710.3	24897.6	22422.9	16269.5	9733.3	3310.8
42.5°	540.1	2036.6	9489.2	18282.8	28315.4	33039.1	33400.2	30798.4	22484.8	13786.5	4727.0
45°	610.3	2636.9	13139.4	24792.3	38142.3	43901.0	43780.6	40033.5	29716.6	19956.5	7529.5
47.5°	842.7	4106.7	18550.3	31127.8	44422.7	49551.1	49654.7	45074.8	33937.0	24700.3	11303.4
50°	1295.9	6283.8	23096.7	34477.1	47123.2	52268.2	52171.2	46879.0	35540.5	27036.2	13615.9
52.5°	1685.5	7858.9	25377.5	35652.6	47469.3	53610.9	53604.2	47353.9	35789.7	27236.9	13905.2
55°	1782.5	7977.6	25395.9	35716.1	48245.2	55368.3	55589.0	48522.7	36112.4	26360.7	12816.7
57.5°	1744.0	7063.0	24335.8	36084.0	49626.3	56727.7	56739.4	49654.7	36931.7	25823.9	11014.1
58°	1710.6	6919.2	24121.7	36293.0	49863.7	56784.6	56756.1	49706.6	37598.9	25803.9	10731.5
60°	1523.3	6007.9	23287.4	36826.4	49510.9	55617.4	55351.6	48574.6	37500.2	25598.2	9308.6
62.5°	1197.2	4686.9	22466.4	36209.4	45728.6	49967.4	50077.8	43004.8	34186.1	24399.3	7631.5
65°	953.1	3493.0	20754.1	31761.6	37655.7	41033.4	41444.7	34970.3	28534.4	20660.5	5626.6
67.5°	759.1	2524.9	17409.9	25287.2	29796.9	34246.3	34545.6	29360.4	22106.9	15829.8	3998.0
70°	617.0	1707.2	12017.4	18493.4	24576.6	29579.5	29597.9	24390.9	16500.3	10372.0	2508.2
72.5°	546.8	1182.2	6976.0	13487.2	19928.1	24103.3	23616.8	19792.7	12681.2	6143.3	1494.9
75°	473.2	784.2	3421.1	8245.1	12082.6	12164.5	12350.1	9181.5	6338.9	2921.2	896.2
77.5°	389.6	556.8	1347.7	2252.3	3623.4	4638.4	4810.6	3645.2	2108.5	719.0	478.2
80°	267.5	264.2	362.8	690.6	1036.7	1299.2	1212.3	938.0	551.8	275.9	170.6
82.5°	115.4	125.4	163.9	197.3	160.5	155.5	148.8	95.3	73.6	56.9	35.1
85°	36.8	33.4	35.1	35.1	28.4	21.7	21.7	10.0	0.0	0.0	0.0
87.5°	18.4	15.0	15.0	13.4	8.4	3.3	1.7	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°	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
2.5°	88.6	88.6	85.3	81.9	80.3	76.9	75.2	73.6	71.9	70.2	68.6
5°	93.6	92.0	86.9	81.9	76.9	71.9	68.6	65.2	61.9	60.2	58.5
7.5°	102.0	98.7	88.6	80.3	73.6	66.9	63.5	58.5	55.2	50.2	48.5
10°	112.0	105.3	92.0	81.9	71.9	63.5	58.5	53.5	48.5	41.8	40.1
12.5°	125.4	113.7	97.0	80.3	68.6	58.5	53.5	46.8	41.8	36.8	33.4
15°	137.1	122.1	98.7	80.3	65.2	53.5	46.8	40.1	35.1	28.4	25.1
17.5°	153.8	128.8	97.0	75.2	60.2	46.8	40.1	35.1	26.8	16.7	13.4
20°	182.3	133.8	93.6	70.2	51.8	38.5	30.1	23.4	11.7	3.3	0.0
22.5°	227.4	147.1	90.3	63.5	45.1	30.1	20.1	8.4	0.0	0.0	0.0
25°	314.4	170.6	90.3	60.2	40.1	21.7	6.7	0.0	0.0	0.0	0.0
27.5°	418.0	202.3	90.3	51.8	31.8	11.7	0.0	0.0	0.0	0.0	0.0
30°	523.4	237.4	90.3	45.1	25.1	1.7	0.0	0.0	0.0	0.0	0.0
32.5°	623.7	267.5	92.0	38.5	16.7	0.0	0.0	0.0	0.0	0.0	0.0
35°	725.7	272.6	90.3	33.4	10.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	856.1	262.5	85.3	30.1	5.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	1053.4	267.5	80.3	28.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1417.9	289.3	73.6	28.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2451.3	387.9	66.9	30.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	4054.8	697.3	65.2	30.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5175.2	877.9	68.6	31.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	5166.8	978.2	71.9	33.4	6.7	0.0	0.0	0.0	0.0	0.0	0.0
55°	4593.3	996.6	76.9	36.8	21.7	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3839.1	909.6	88.6	45.1	40.1	0.0	0.0	0.0	0.0	0.0	0.0
58°	3705.4	869.5	92.0	46.8	43.5	0.0	0.0	0.0	0.0	0.0	0.0
60°	3036.5	709.0	117.0	58.5	58.5	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	2096.8	618.7	133.8	75.2	60.2	0.0	0.0	0.0	0.0	0.0	0.0
65°	1483.2	558.5	145.5	80.3	48.5	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1108.6	515.0	160.5	81.9	25.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	849.4	483.2	197.3	86.9	6.7	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	692.3	446.5	239.1	90.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	573.5	403.0	230.8	98.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	381.2	312.7	210.7	98.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	133.8	123.7	163.9	86.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	20.1	16.7	23.4	30.1	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°	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
2.5°	68.6	68.6	66.9	68.6	68.6	71.9	80.3	92.0	105.3	110.4	115.4
5°	56.9	55.2	53.5	53.5	53.5	58.5	65.2	78.6	93.6	100.3	103.7
7.5°	46.8	45.1	43.5	41.8	41.8	45.1	53.5	68.6	83.6	90.3	95.3
10°	38.5	35.1	33.4	31.8	31.8	35.1	43.5	58.5	75.2	81.9	88.6
12.5°	31.8	26.8	23.4	21.7	20.1	25.1	33.4	46.8	65.2	73.6	80.3
15°	21.7	16.7	11.7	10.0	8.4	13.4	21.7	36.8	55.2	65.2	71.9
17.5°	11.7	5.0	1.7	0.0	0.0	3.3	10.0	26.8	45.1	53.5	61.9
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.4	33.4	41.8	50.2
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	20.1	28.4	36.8
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.4	15.0	21.7
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	10.0
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	1.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	10.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	13.4	18.4
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°	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
2.5°	118.7	117.0	113.7	110.4	110.4	110.4	115.4	120.4	125.4	125.4
5°	110.4	110.4	108.7	105.3	105.3	107.0	113.7	122.1	128.8	130.4
7.5°	102.0	105.3	102.0	100.3	102.0	103.7	110.4	120.4	130.4	133.8
10°	97.0	98.7	98.7	97.0	97.0	100.3	107.0	120.4	133.8	138.8
12.5°	90.3	93.6	92.0	92.0	92.0	95.3	103.7	118.7	137.1	143.8
15°	83.6	88.6	88.6	86.9	86.9	88.6	100.3	117.0	142.1	153.8
17.5°	76.9	81.9	83.6	80.3	80.3	83.6	95.3	117.0	145.5	165.5
20°	63.5	71.9	76.9	71.9	71.9	75.2	86.9	110.4	147.1	177.2
22.5°	50.2	58.5	65.2	63.5	63.5	65.2	80.3	105.3	148.8	197.3
25°	36.8	45.1	50.2	53.5	53.5	58.5	73.6	102.0	155.5	239.1
27.5°	21.7	31.8	38.5	41.8	43.5	50.2	68.6	98.7	167.2	299.3
30°	10.0	18.4	26.8	33.4	33.4	45.1	63.5	95.3	182.3	386.3
32.5°	0.0	8.4	13.4	23.4	25.1	36.8	58.5	92.0	204.0	469.9
35°	0.0	0.0	6.7	18.4	18.4	30.1	53.5	88.6	237.4	533.4
37.5°	0.0	0.0	0.0	13.4	15.0	26.8	51.8	86.9	244.1	538.4
40°	0.0	0.0	0.0	10.0	11.7	25.1	51.8	88.6	220.7	526.7
42.5°	0.0	0.0	0.0	6.7	8.4	25.1	51.8	92.0	199.0	540.1
45°	0.0	0.0	0.0	5.0	6.7	26.8	50.2	90.3	187.3	610.3
47.5°	0.0	0.0	0.0	6.7	10.0	26.8	48.5	88.6	188.9	842.7
50°	0.0	0.0	0.0	8.4	11.7	26.8	50.2	85.3	207.3	1295.9
52.5°	0.0	0.0	0.0	6.7	10.0	30.1	55.2	83.6	225.7	1685.5
55°	0.0	0.0	0.0	1.7	5.0	38.5	60.2	83.6	254.2	1782.5
57.5°	0.0	0.0	0.0	0.0	0.0	43.5	68.6	88.6	301.0	1744.0
58°	0.0	0.0	0.0	0.0	0.0	43.5	70.2	88.6	304.3	1710.6
60°	0.0	0.0	0.0	0.0	0.0	43.5	76.9	98.7	327.7	1523.3
62.5°	0.0	0.0	0.0	0.0	0.0	36.8	92.0	123.7	341.1	1197.2
65°	0.0	0.0	0.0	0.0	0.0	30.1	108.7	135.4	351.1	953.1
67.5°	0.0	0.0	0.0	0.0	0.0	28.4	112.0	137.1	356.2	759.1
70°	0.0	0.0	0.0	0.0	0.0	30.1	110.4	147.1	372.9	617.0
72.5°	0.0	0.0	0.0	0.0	0.0	33.4	100.3	162.2	372.9	546.8
75°	0.0	0.0	0.0	0.0	0.0	35.1	93.6	182.3	339.4	473.2
77.5°	0.0	0.0	0.0	0.0	0.0	33.4	92.0	212.4	302.7	389.6
80°	3.3	5.0	5.0	3.3	3.3	28.4	90.3	215.7	257.5	267.5
82.5°	10.0	13.4	11.7	8.4	8.4	25.1	80.3	180.6	133.8	115.4
85°	18.4	21.7	21.7	18.4	18.4	23.4	50.2	65.2	45.1	36.8
87.5°	25.1	28.4	28.4	25.1	25.1	23.4	21.7	20.1	18.4	18.4
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: SP1-2407-184-2

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 $\text{W}^\wedge/\text{nm}$	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

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 0.8

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			

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)