

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: P1068083

Luminaire Tested: **NAV-SA6C-830-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1068083
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA6C-830-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 1050mA 6xLight Square PACKAGE
80CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (84) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22758.1 lumens
Efficiency: N/A
Efficacy: 81.5 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): 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



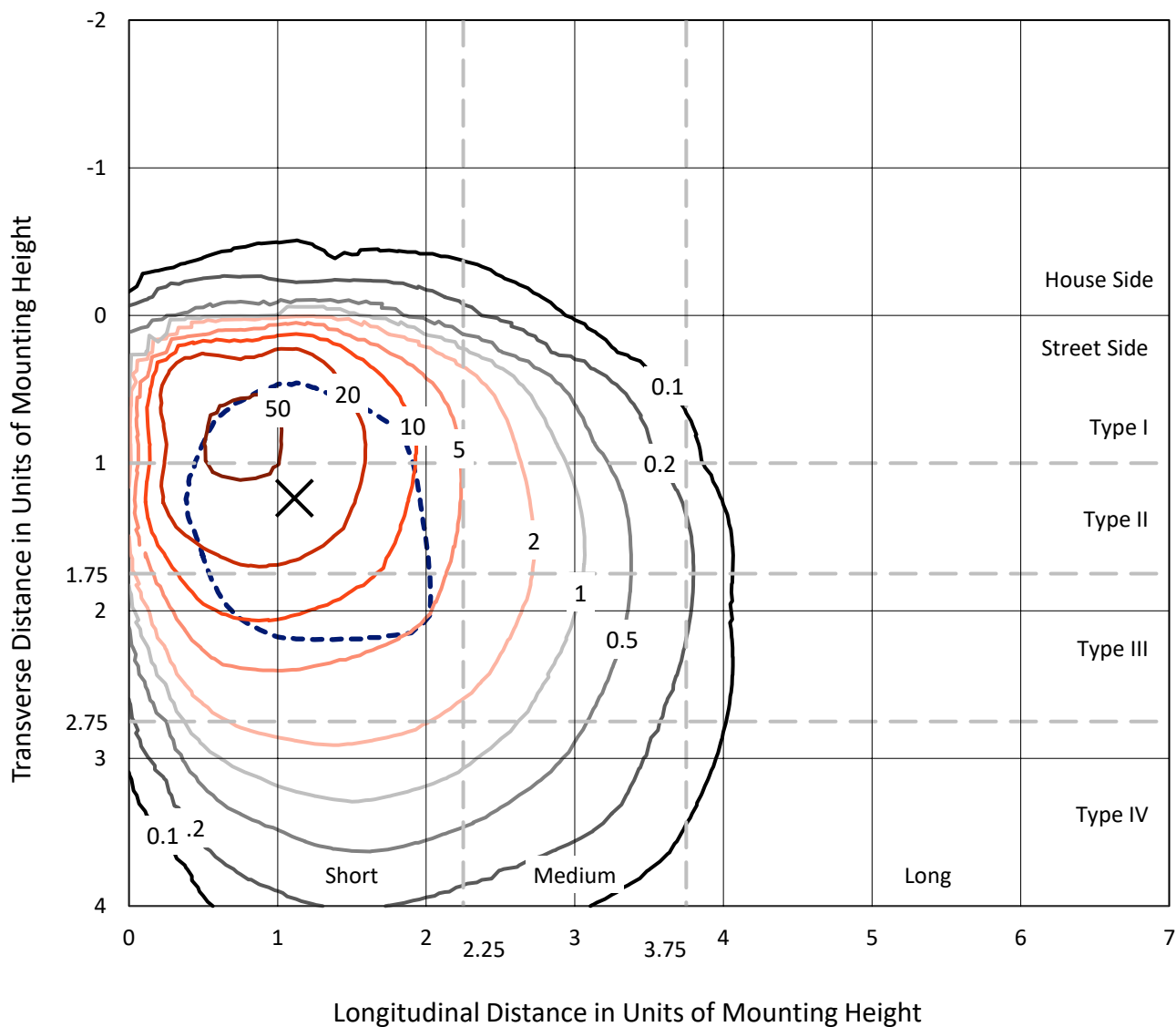
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

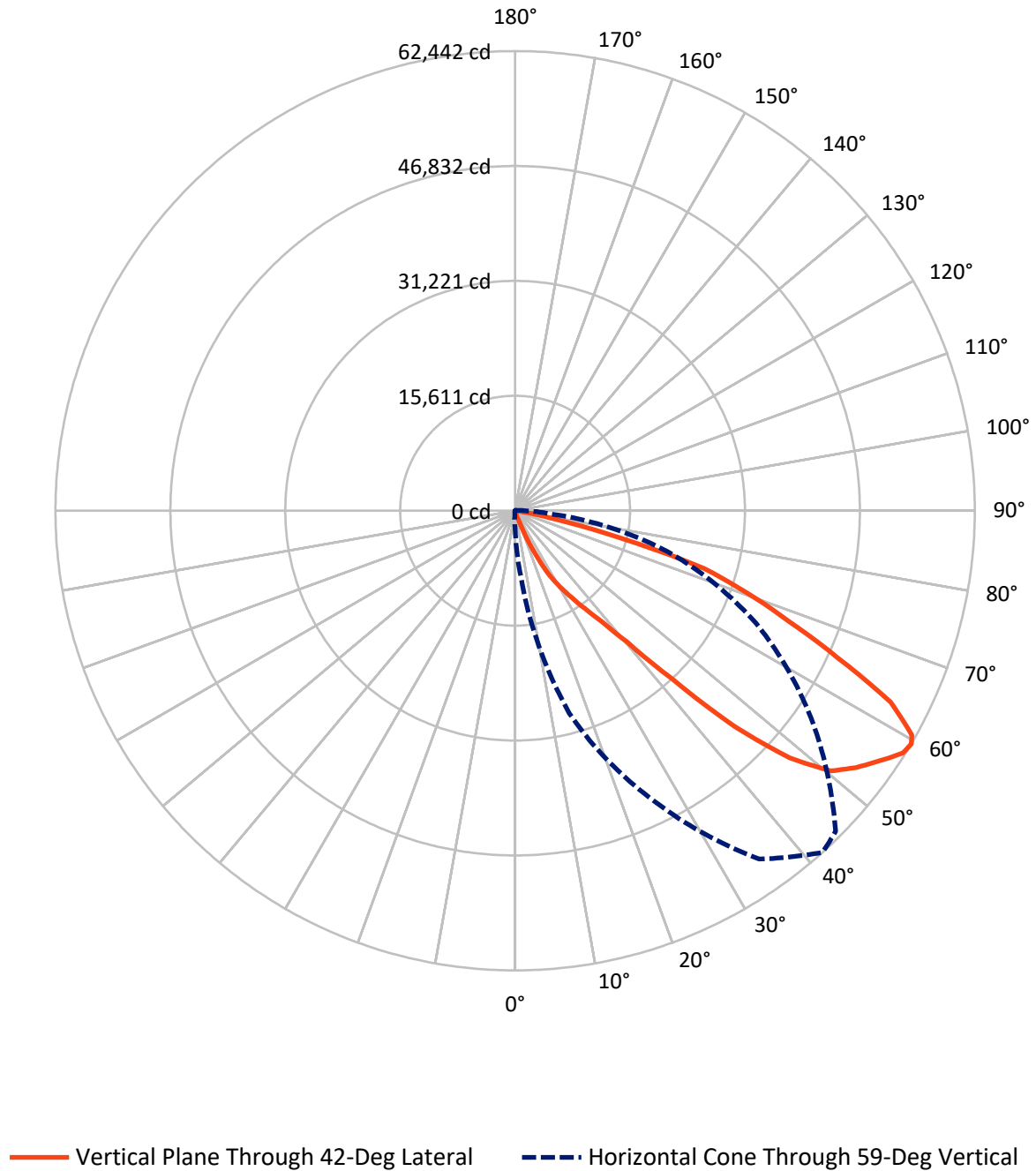


Based on 15 foot mounting height. Maximum calculated value = 67.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	109.7	0.0	109.7
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	22648.4	0.0	22648.4
	% Fixture	99.5	0.0	99.5
Total	Lumens	22758.1	0.0	22758.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.7	0.0
10°-20°	33.2	0.1
20°-30°	424.5	1.9
30°-40°	1431.2	6.3
40°-50°	4322.8	19.0
50°-60°	7630.8	33.5
60°-70°	6719.1	29.5
70°-80°	2138.7	9.4
80°-90°	51.2	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°	22758.1	100.0
0°-180°	22758.1	100.0



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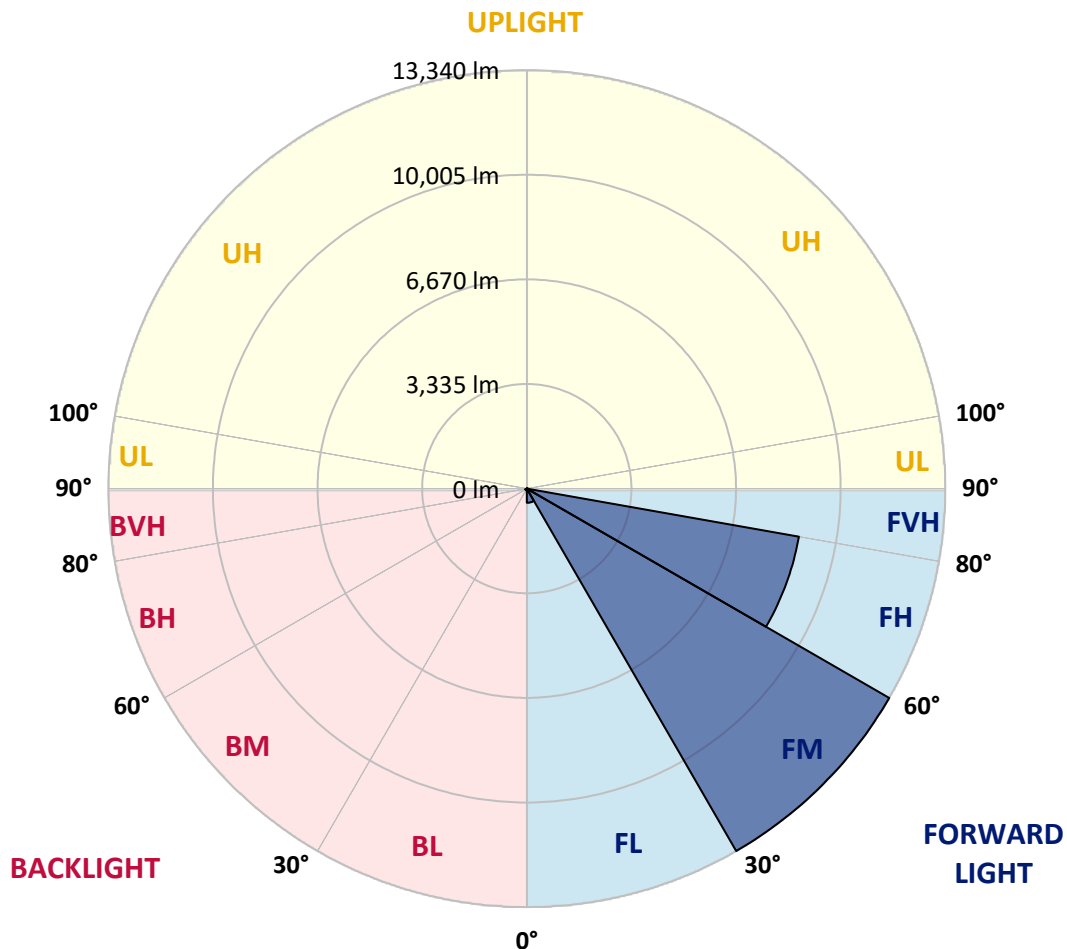
CATALOG NUMBER: NAV-SA6C-830-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	452.1	2.0			
FM	(30°-60°)	13340.0	58.6			
FH	(60°-80°)	8807.6	38.7			G4/12000
FVH	(80°-90°)	48.7	0.2			G1/100
BL	(0°-30°)	12.2	0.1	B0/110		
BM	(30°-60°)	44.8	0.2	B0/220		
BH	(60°-80°)	50.2	0.2	B0/110		G0/110
BVH	(80°-90°)	2.5	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°	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
2.5°	99.9	99.9	92.8	85.6	78.5	71.4	71.4	71.4	64.2	64.2	57.1
5°	114.2	114.2	107.0	99.9	99.9	92.8	92.8	85.6	78.5	78.5	71.4
7.5°	121.3	121.3	121.3	121.3	114.2	114.2	114.2	107.0	99.9	92.8	85.6
10°	128.4	135.6	142.7	142.7	142.7	142.7	142.7	135.6	121.3	114.2	99.9
12.5°	142.7	149.8	164.1	178.4	178.4	185.5	178.4	171.3	157.0	135.6	114.2
15°	157.0	171.3	192.7	221.2	249.7	256.9	256.9	235.5	206.9	164.1	135.6
17.5°	178.4	199.8	256.9	349.6	449.5	528.0	528.0	470.9	328.2	214.1	157.0
20°	192.7	235.5	413.9	842.0	1284.4	1612.6	1548.4	1370.0	734.9	335.4	171.3
22.5°	214.1	299.7	877.7	2212.0	3425.0	4024.4	3881.7	2946.9	1648.3	599.4	206.9
25°	242.6	435.3	1741.0	4145.7	6364.8	7014.1	6921.4	5501.4	3004.0	1006.1	264.0
27.5°	299.7	642.2	2790.0	6286.3	9390.2	9946.8	9911.1	8055.9	4802.1	1619.7	342.5
30°	378.2	934.7	4138.5	8541.1	11395.3	11959.0	11780.6	9925.4	6479.0	2476.0	442.4
32.5°	470.9	1305.8	5358.7	10203.7	13243.3	13985.4	13771.4	11552.2	7827.6	3203.8	656.5
35°	613.6	1669.7	6564.6	11673.6	15376.8	16318.7	15961.9	13229.1	8990.6	4024.4	792.0
37.5°	685.0	1883.8	7670.6	13271.9	17774.3	19058.7	18787.6	15348.3	10175.1	5073.3	970.4
40°	692.1	2140.6	8819.4	15355.4	21163.7	23454.1	22968.9	18987.4	12380.0	6421.9	1248.7
42.5°	713.5	2525.9	10310.7	18908.9	27821.0	31110.4	30561.0	25680.4	17381.9	9126.2	1769.6
45°	813.4	3253.8	13350.4	25551.9	36961.5	41785.0	41150.0	35006.4	24367.5	14213.8	3018.3
47.5°	1163.1	4894.9	18680.5	32723.0	46308.9	50154.9	49997.9	42355.9	30696.6	19429.8	5116.1
50°	1869.5	7513.6	24745.6	38752.5	52259.8	55563.5	55171.1	45424.1	34307.1	22990.3	6557.5
52.5°	2497.4	10018.1	28556.0	40971.6	54036.6	57975.3	57497.2	46544.4	35256.1	24039.2	6957.0
55°	2654.4	10924.3	29690.5	41656.6	55213.9	60016.0	59323.9	47293.6	35377.4	23290.0	6293.4
57.5°	2575.9	10068.1	28955.5	42327.3	56855.0	62113.9	61193.4	48756.3	35784.1	22019.9	5237.4
59°	2440.3	9012.0	28498.9	42862.5	57761.2	62442.1	61578.7	49077.4	36055.3	21441.9	4595.2
60°	2283.3	8298.5	28142.1	43212.1	57704.2	61928.3	61036.4	48927.6	36162.3	20942.5	4288.4
62.5°	1762.4	6621.7	27628.4	42962.4	54100.8	57240.4	56733.7	45260.0	34592.5	19344.1	3382.2
65°	1370.0	5066.2	25744.6	38317.2	46037.7	48149.8	47992.9	38324.4	29112.5	16675.5	2440.3
67.5°	1084.6	3696.1	21770.2	31032.0	37040.0	40044.0	39929.8	31110.4	22098.4	12743.9	1755.3
70°	884.8	2633.0	14927.3	23397.1	29626.3	33408.1	33243.9	25038.2	16375.8	8084.4	1277.2
72.5°	749.2	1684.0	9054.9	17638.8	24724.2	26886.3	26408.2	20200.4	11909.0	4402.6	1013.2
75°	635.1	1034.6	4488.2	10995.7	14727.5	14713.2	14235.2	10696.0	6393.3	2154.9	806.3
77.5°	513.8	727.8	1762.4	3018.3	4645.2	5751.2	5658.4	3788.9	1912.3	627.9	499.5
80°	335.4	342.5	470.9	827.7	1277.2	1412.8	1605.5	1155.9	556.6	299.7	206.9
82.5°	149.8	164.1	214.1	271.1	271.1	249.7	221.2	164.1	121.3	99.9	49.9
85°	35.7	49.9	35.7	42.8	35.7	28.5	28.5	14.3	0.0	0.0	0.0
87.5°	7.1	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°	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
2.5°	57.1	57.1	57.1	49.9	49.9	49.9	42.8	42.8	42.8	35.7	35.7
5°	71.4	64.2	57.1	57.1	49.9	49.9	42.8	35.7	35.7	35.7	28.5
7.5°	78.5	71.4	64.2	57.1	49.9	42.8	42.8	35.7	28.5	28.5	28.5
10°	92.8	85.6	71.4	57.1	49.9	42.8	35.7	35.7	28.5	21.4	21.4
12.5°	107.0	92.8	78.5	64.2	49.9	42.8	35.7	35.7	28.5	21.4	14.3
15°	121.3	107.0	85.6	64.2	49.9	42.8	35.7	35.7	21.4	14.3	7.1
17.5°	135.6	114.2	85.6	71.4	49.9	42.8	35.7	28.5	14.3	7.1	0.0
20°	142.7	121.3	92.8	71.4	49.9	42.8	35.7	21.4	7.1	0.0	0.0
22.5°	157.0	135.6	99.9	71.4	49.9	35.7	21.4	7.1	0.0	0.0	0.0
25°	185.5	142.7	99.9	71.4	49.9	35.7	14.3	0.0	0.0	0.0	0.0
27.5°	206.9	157.0	99.9	71.4	49.9	28.5	7.1	0.0	0.0	0.0	0.0
30°	242.6	171.3	107.0	71.4	49.9	21.4	7.1	0.0	0.0	0.0	0.0
32.5°	299.7	185.5	107.0	71.4	42.8	21.4	0.0	0.0	0.0	0.0	0.0
35°	363.9	214.1	107.0	71.4	42.8	21.4	0.0	0.0	0.0	0.0	0.0
37.5°	371.0	228.3	107.0	71.4	42.8	14.3	0.0	0.0	0.0	0.0	0.0
40°	385.3	214.1	114.2	71.4	42.8	14.3	0.0	0.0	0.0	0.0	0.0
42.5°	442.4	199.8	121.3	71.4	42.8	14.3	0.0	0.0	0.0	0.0	0.0
45°	656.5	206.9	121.3	78.5	42.8	21.4	0.0	0.0	0.0	0.0	0.0
47.5°	1141.7	214.1	114.2	78.5	42.8	21.4	0.0	0.0	0.0	0.0	0.0
50°	1462.8	249.7	114.2	85.6	49.9	14.3	0.0	0.0	0.0	0.0	0.0
52.5°	1555.5	292.6	114.2	92.8	64.2	7.1	0.0	0.0	0.0	0.0	0.0
55°	1512.7	342.5	121.3	99.9	78.5	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	1398.5	371.0	128.4	107.0	85.6	0.0	0.0	0.0	0.0	0.0	0.0
59°	1277.2	392.4	149.8	114.2	85.6	0.0	0.0	0.0	0.0	0.0	0.0
60°	1177.3	413.9	157.0	121.3	85.6	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	949.0	442.4	171.3	142.7	71.4	0.0	0.0	0.0	0.0	0.0	0.0
65°	827.7	463.8	178.4	157.0	64.2	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	756.4	478.1	192.7	164.1	57.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	699.3	470.9	206.9	157.0	49.9	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	635.1	449.5	249.7	142.7	42.8	0.0	0.0	0.0	0.0	0.0	0.0
75°	570.8	406.7	271.1	128.4	28.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	413.9	342.5	249.7	114.2	14.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	178.4	185.5	178.4	85.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	35.7	42.8	35.7	21.4	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°	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
2.5°	35.7	35.7	35.7	35.7	42.8	42.8	57.1	71.4	85.6	92.8	92.8
5°	28.5	28.5	28.5	28.5	28.5	35.7	42.8	57.1	78.5	85.6	85.6
7.5°	21.4	21.4	21.4	21.4	21.4	21.4	35.7	49.9	71.4	78.5	85.6
10°	21.4	14.3	14.3	7.1	7.1	14.3	21.4	42.8	64.2	71.4	78.5
12.5°	14.3	7.1	7.1	0.0	0.0	7.1	14.3	35.7	57.1	64.2	71.4
15°	7.1	0.0	0.0	0.0	0.0	0.0	7.1	28.5	49.9	57.1	71.4
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.4	42.8	57.1	64.2
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.3	35.7	49.9	57.1
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	28.5	42.8	49.9
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.4	28.5	35.7
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.3	21.4	28.5
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.3	21.4	28.5
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	14.3	21.4
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	14.3	21.4
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	14.3	14.3
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	14.3
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	14.3
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	14.3
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	14.3
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	14.3
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	7.1
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	7.1
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	7.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	14.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	14.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	7.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	7.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	7.1
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°	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
2.5°	99.9	99.9	92.8	85.6	85.6	85.6	92.8	99.9	99.9	99.9
5°	92.8	92.8	85.6	85.6	85.6	85.6	92.8	107.0	114.2	114.2
7.5°	92.8	92.8	85.6	85.6	85.6	85.6	92.8	107.0	114.2	121.3
10°	85.6	85.6	85.6	85.6	78.5	85.6	92.8	107.0	128.4	128.4
12.5°	85.6	85.6	85.6	85.6	78.5	85.6	99.9	114.2	135.6	142.7
15°	85.6	85.6	85.6	78.5	78.5	85.6	99.9	121.3	142.7	157.0
17.5°	78.5	85.6	85.6	78.5	78.5	85.6	99.9	121.3	157.0	178.4
20°	71.4	78.5	85.6	78.5	78.5	78.5	99.9	121.3	164.1	192.7
22.5°	64.2	71.4	78.5	78.5	71.4	78.5	99.9	128.4	178.4	214.1
25°	57.1	64.2	64.2	71.4	71.4	78.5	99.9	128.4	185.5	242.6
27.5°	42.8	49.9	57.1	64.2	64.2	78.5	99.9	135.6	199.8	299.7
30°	35.7	42.8	49.9	57.1	64.2	78.5	99.9	135.6	214.1	378.2
32.5°	35.7	42.8	49.9	57.1	64.2	71.4	99.9	142.7	235.5	470.9
35°	28.5	35.7	42.8	57.1	57.1	71.4	99.9	142.7	256.9	613.6
37.5°	28.5	35.7	42.8	57.1	57.1	71.4	99.9	142.7	314.0	685.0
40°	21.4	28.5	35.7	57.1	57.1	71.4	107.0	149.8	321.1	692.1
42.5°	21.4	28.5	35.7	49.9	57.1	71.4	107.0	149.8	299.7	713.5
45°	21.4	28.5	35.7	57.1	64.2	78.5	107.0	157.0	292.6	813.4
47.5°	21.4	28.5	35.7	57.1	71.4	78.5	107.0	157.0	299.7	1163.1
50°	21.4	28.5	35.7	57.1	78.5	78.5	107.0	157.0	328.2	1869.5
52.5°	14.3	21.4	28.5	49.9	64.2	85.6	114.2	149.8	349.6	2497.4
55°	14.3	14.3	21.4	42.8	57.1	92.8	121.3	149.8	406.7	2654.4
57.5°	14.3	14.3	21.4	35.7	49.9	99.9	128.4	149.8	470.9	2575.9
59°	14.3	14.3	14.3	35.7	42.8	99.9	128.4	157.0	478.1	2440.3
60°	14.3	14.3	14.3	28.5	42.8	99.9	135.6	164.1	485.2	2283.3
62.5°	7.1	7.1	7.1	28.5	35.7	99.9	149.8	199.8	499.5	1762.4
65°	14.3	14.3	7.1	21.4	35.7	85.6	171.3	214.1	506.6	1370.0
67.5°	14.3	14.3	14.3	28.5	35.7	85.6	178.4	221.2	506.6	1084.6
70°	14.3	14.3	14.3	28.5	42.8	85.6	178.4	228.3	499.5	884.8
72.5°	14.3	14.3	14.3	28.5	42.8	78.5	164.1	235.5	478.1	749.2
75°	14.3	14.3	14.3	21.4	35.7	71.4	157.0	256.9	435.3	635.1
77.5°	14.3	14.3	14.3	14.3	28.5	57.1	142.7	285.4	385.3	513.8
80°	21.4	14.3	14.3	14.3	21.4	49.9	135.6	278.3	321.1	335.4
82.5°	21.4	14.3	14.3	7.1	14.3	35.7	107.0	214.1	164.1	149.8
85°	14.3	14.3	14.3	7.1	7.1	21.4	49.9	64.2	49.9	35.7
87.5°	14.3	14.3	14.3	7.1	7.1	7.1	7.1	7.1	7.1	7.1
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: SP1-2407-184-9

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-830-U-5WQ

Data in this report applies to families of products including GSS-SB1A-830-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-9
 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-830-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 3000K CCT 26 LEDS

Spectral Parameters

CCT (K): 3055
 CIE u' : 0.2475
 CIE v' : 0.5247
 Duv: 0.0032
 CIE x: 0.4377
 CIE y: 0.4124
 CIE z: 0.1499
 Peak Wavelength (nm): 604
 Dominant Wavelength (nm): 581
 Purity: 55.16339
 R_f: 81.5
 R_g: 99.2

CRI (Ra): 80.9
 R1: 79.5
 R2: 85.6
 R3: 92.1
 R4: 82.4
 R5: 78.9
 R6: 81.7
 R7: 85.1
 R8: 61.9
 R9: 6.8
 R10: 67.1
 R11: 82.5
 R12: 63.4
 R13: 80.2
 R14: 95.1
 R15: 71.7



Test Conditions

Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-9

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 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-9

Photopic Flux vs. Wavelength

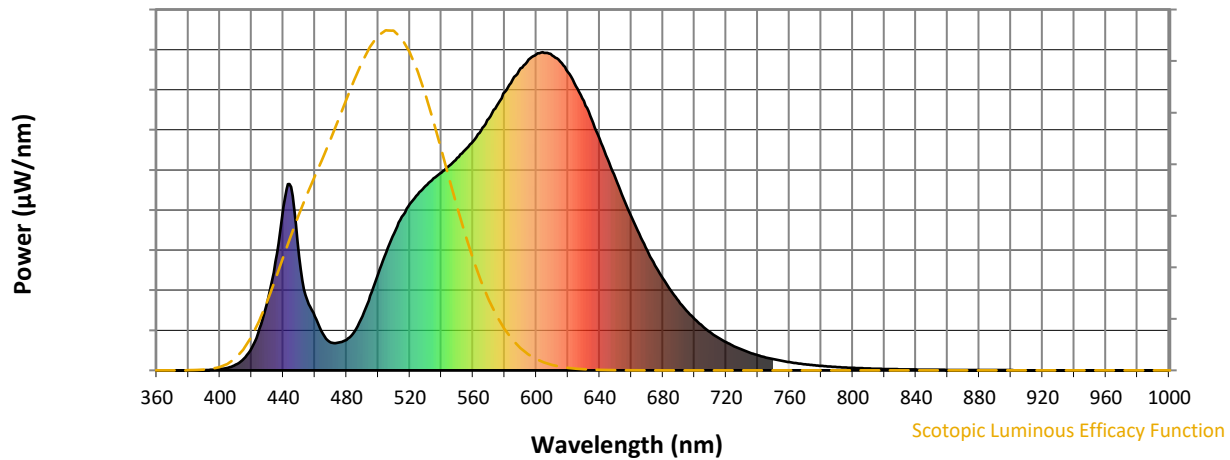


Photopic Lumens: NR

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-9

Scotopic Flux vs. Wavelength



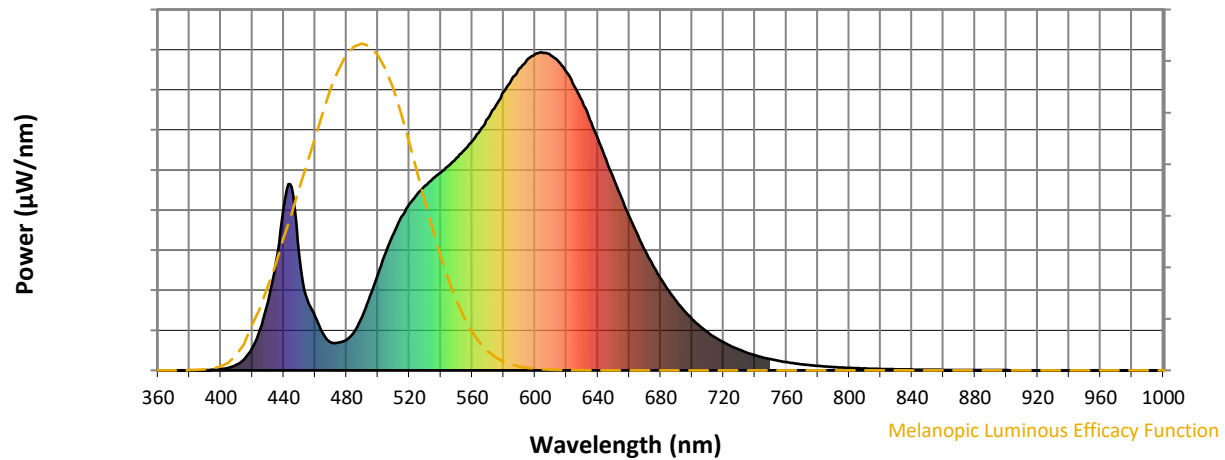
Scotopic Lumens: NR

S/P: 1.28

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.33

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

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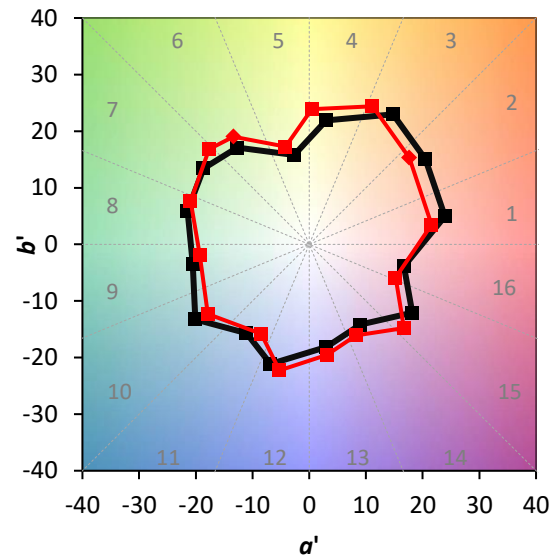
TM-30-18

Summary

$R_f = 81.5$
 $R_g = 99.2$
 $CIE R_a = 80.9$
 $R_9 = 6.8$

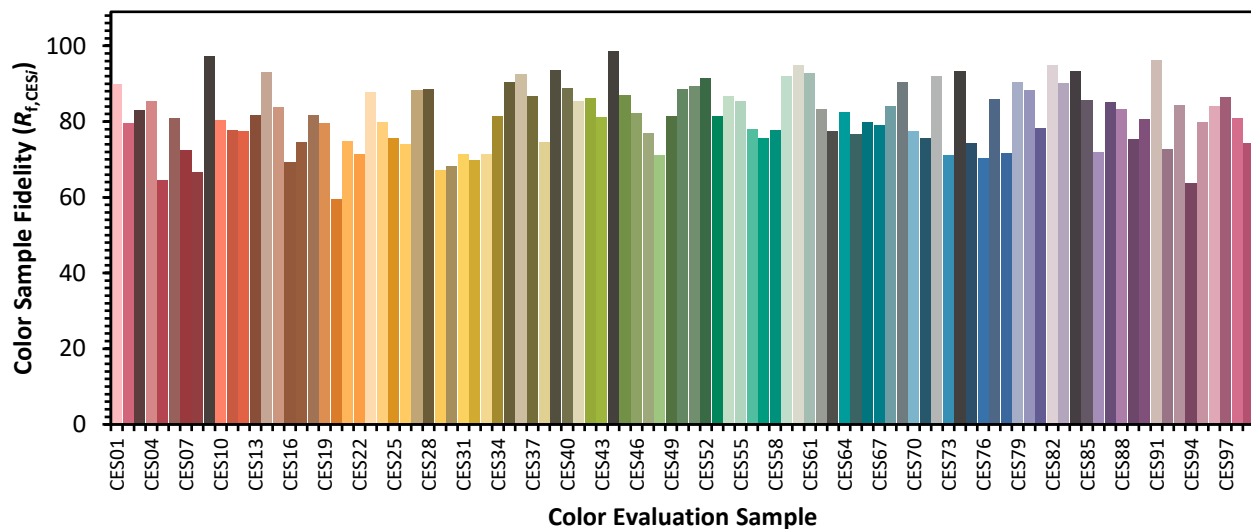


Color Vector Graphics

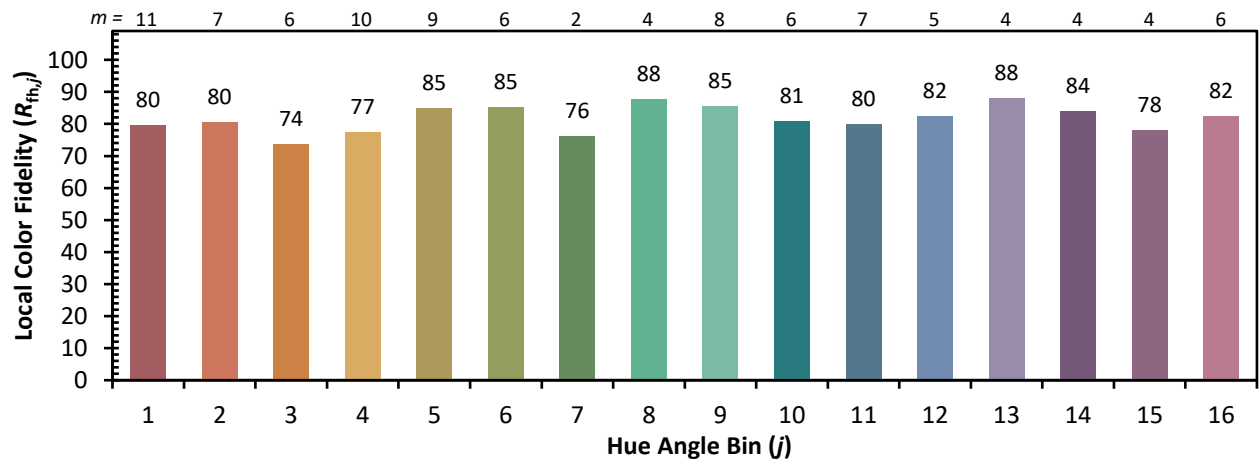


Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 91	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 93
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 90	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 77	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)