

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: P1067964

Luminaire Tested: **NAV-SA6D-730-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067964
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA6D-730-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 1200mA 6xLight Square PACKAGE
70CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (84) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28751.4 lumens
Efficiency: N/A
Efficacy: 89.7 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): 320.4
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



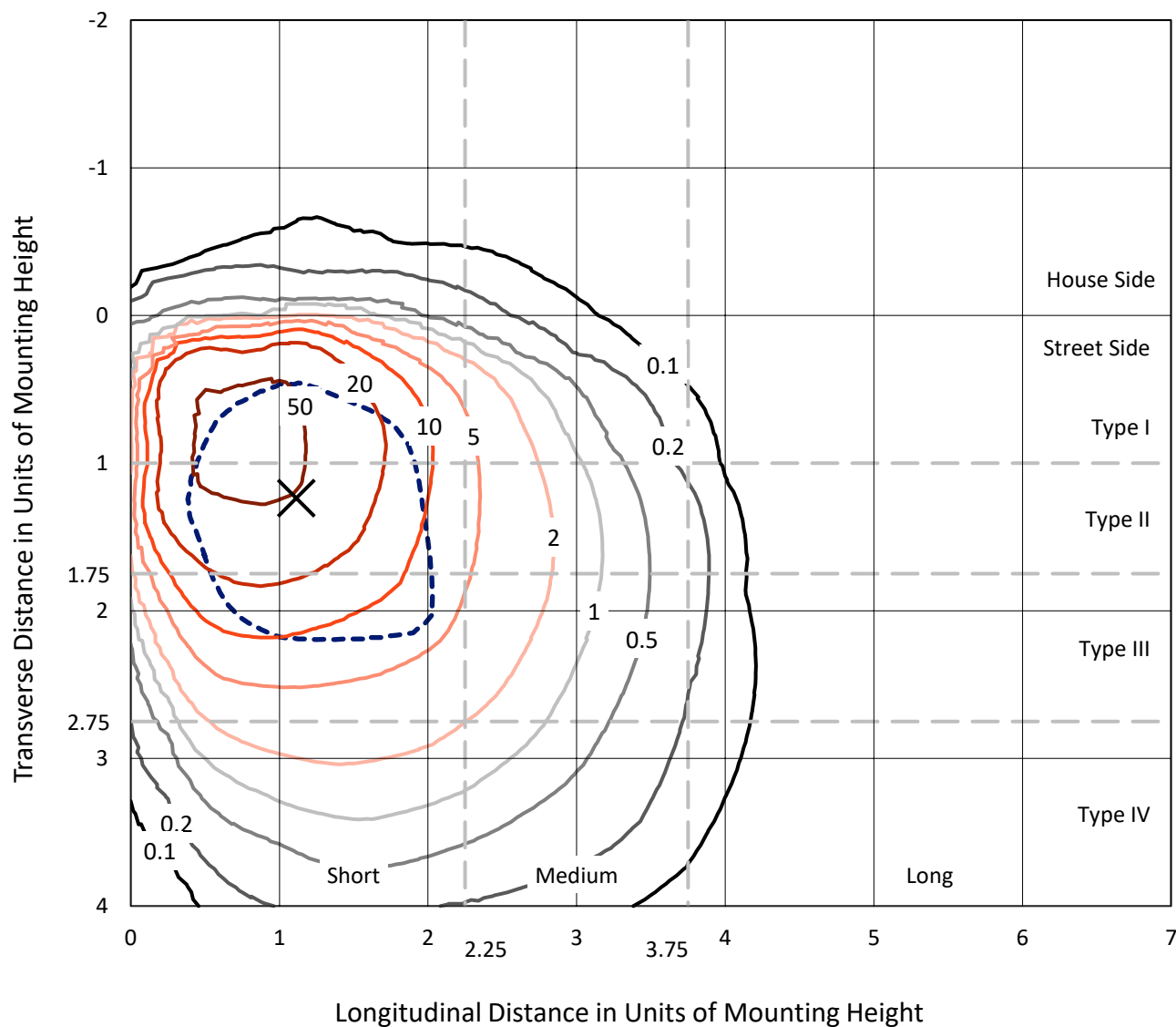
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

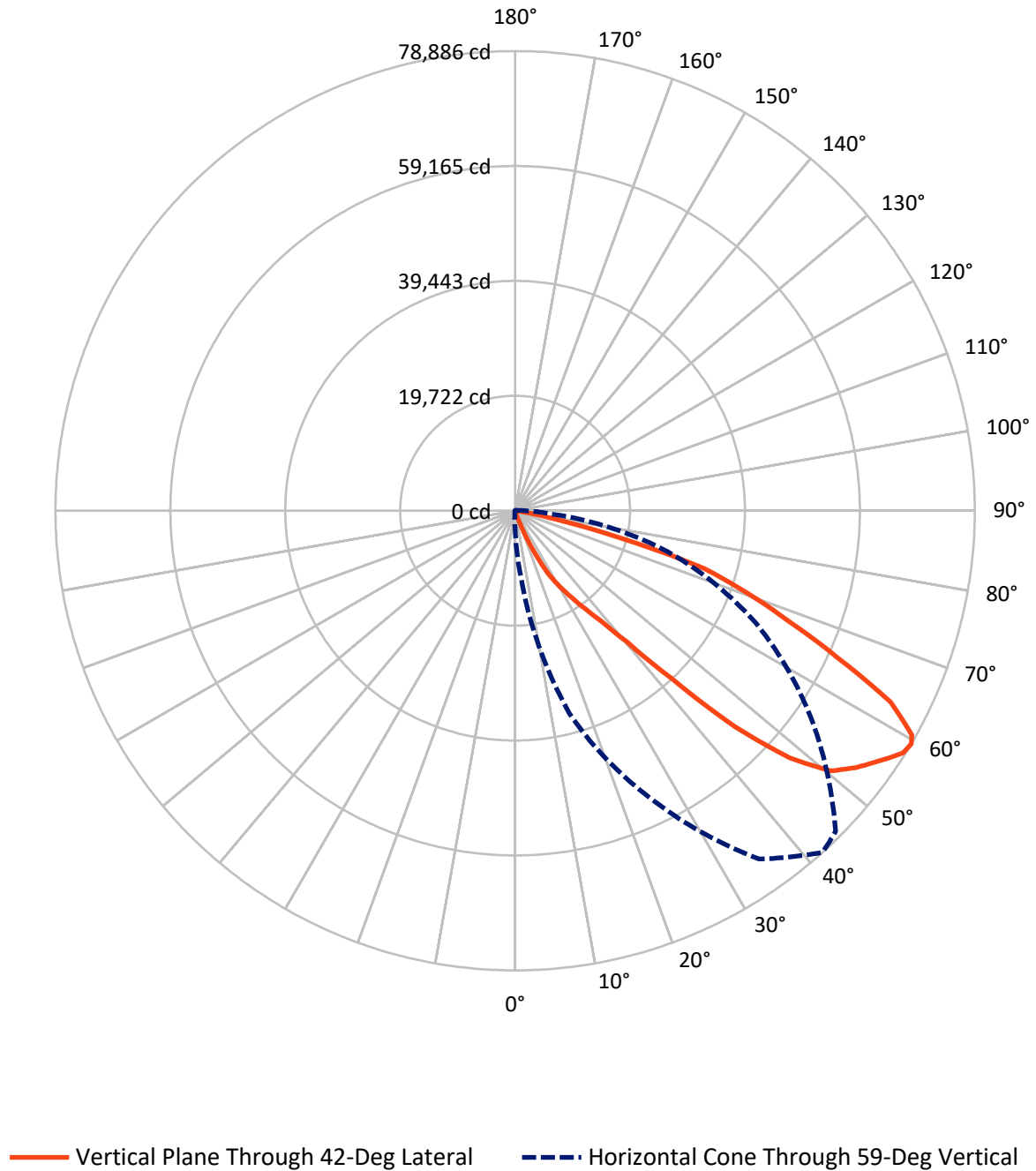


Based on 15 foot mounting height. Maximum calculated value = 85.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	138.5	0.0	138.5
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	28612.9	0.0	28612.9
	% Fixture	99.5	0.0	99.5
Total	Lumens	28751.4	0.0	28751.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.4	0.0
10°-20°	41.9	0.1
20°-30°	536.3	1.9
30°-40°	1808.1	6.3
40°-50°	5461.2	19.0
50°-60°	9640.4	33.5
60°-70°	8488.5	29.5
70°-80°	2701.9	9.4
80°-90°	64.6	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°	28751.4	100.0
0°-180°	28751.4	100.0



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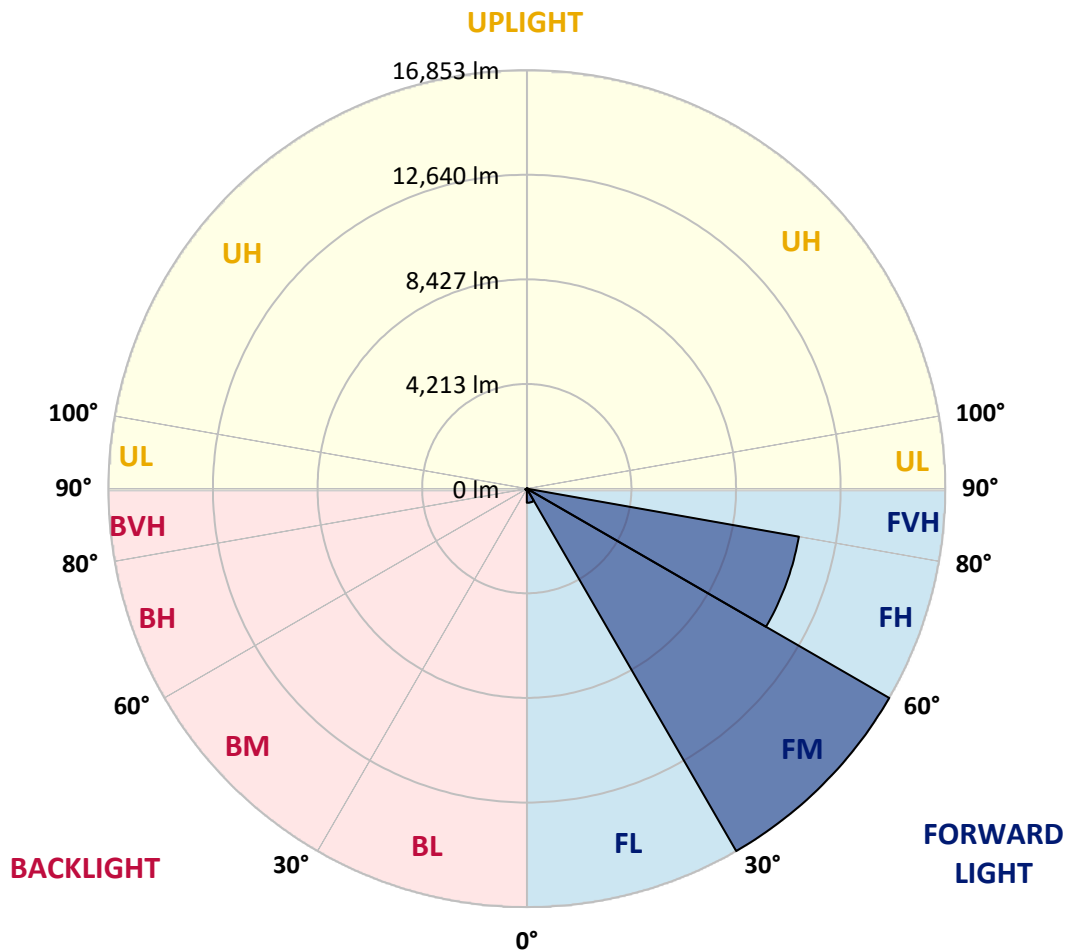
CATALOG NUMBER: NAV-SA6D-730-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	571.2	2.0			
FM	(30°-60°)	16853.1	58.6			
FH	(60°-80°)	11127.1	38.7			G4/12000
FVH	(80°-90°)	61.5	0.2			G1/100
BL	(0°-30°)	15.4	0.1	B0/110		
BM	(30°-60°)	56.6	0.2	B0/220		
BH	(60°-80°)	63.4	0.2	B0/110		G0/110
BVH	(80°-90°)	3.1	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°	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
2.5°	126.2	126.2	117.2	108.2	99.2	90.1	90.1	90.1	81.1	81.1	72.1
5°	144.2	144.2	135.2	126.2	126.2	117.2	117.2	108.2	99.2	99.2	90.1
7.5°	153.2	153.2	153.2	153.2	144.2	144.2	144.2	135.2	126.2	117.2	108.2
10°	162.3	171.3	180.3	180.3	180.3	180.3	180.3	171.3	153.2	144.2	126.2
12.5°	180.3	189.3	207.3	225.4	225.4	234.4	225.4	216.3	198.3	171.3	144.2
15°	198.3	216.3	243.4	279.5	315.5	324.5	324.5	297.5	261.4	207.3	171.3
17.5°	225.4	252.4	324.5	441.7	567.9	667.1	667.1	595.0	414.7	270.4	198.3
20°	243.4	297.5	522.8	1063.7	1622.6	2037.3	1956.2	1730.8	928.5	423.7	216.3
22.5°	270.4	378.6	1108.8	2794.5	4327.0	5084.2	4903.9	3723.0	2082.4	757.2	261.4
25°	306.5	549.9	2199.5	5237.4	8041.0	8861.3	8744.1	6950.2	3795.1	1271.1	333.5
27.5°	378.6	811.3	3524.7	7941.8	11863.1	12566.3	12521.2	10177.4	6066.8	2046.3	432.7
30°	477.8	1180.9	5228.4	10790.4	14396.2	15108.4	14883.0	12539.2	8185.2	3128.0	558.9
32.5°	595.0	1649.7	6769.9	12890.8	16731.0	17668.5	17398.1	14594.5	9889.0	4047.5	829.3
35°	775.3	2109.4	8293.4	14747.8	19426.3	20616.3	20165.5	16713.0	11358.3	5084.2	1000.6
37.5°	865.4	2379.8	9690.6	16767.0	22455.2	24077.8	23735.3	19390.3	12854.7	6409.3	1226.0
40°	874.4	2704.4	11142.0	19399.3	26737.1	29630.8	29017.8	23987.7	15640.2	8113.1	1577.5
42.5°	901.5	3191.1	13026.0	23888.5	35147.7	39303.4	38609.3	32443.3	21959.4	11529.6	2235.6
45°	1027.7	4110.6	16866.2	32281.1	46695.3	52789.1	51986.9	44225.3	30784.7	17957.0	3813.2
47.5°	1469.4	6184.0	23600.1	41340.7	58504.4	63363.2	63164.9	53510.3	38780.6	24546.6	6463.4
50°	2361.8	9492.3	31262.4	48958.0	66022.5	70196.2	69700.4	57386.6	43341.9	29044.8	8284.4
52.5°	3155.1	12656.4	36076.2	51761.5	68267.1	73243.1	72639.2	58801.8	44540.8	30370.0	8789.2
55°	3353.4	13801.3	37509.5	52626.9	69754.5	75821.3	74946.9	59748.4	44694.1	29423.5	7950.8
57.5°	3254.2	12719.5	36581.0	53474.3	71827.9	78471.6	77308.7	61596.4	45207.9	27818.9	6616.7
59°	3083.0	11385.4	36004.1	54150.3	72972.7	78886.2	77795.5	62002.0	45550.5	27088.7	5805.4
60°	2884.7	10483.9	35553.3	54592.1	72900.6	78237.2	77110.4	61812.7	45685.7	26457.7	5417.7
62.5°	2226.6	8365.5	34904.3	54276.5	68348.2	72314.6	71674.6	57179.2	43702.5	24438.4	4272.9
65°	1730.8	6400.3	32524.5	48408.1	58161.8	60830.1	60631.8	48417.1	36779.3	21067.0	3083.0
67.5°	1370.2	4669.5	27503.4	39204.2	46794.5	50589.6	50445.4	39303.4	27918.0	16100.0	2217.6
70°	1117.8	3326.4	18858.4	29558.7	37428.4	42206.1	41998.7	31632.0	20688.4	10213.5	1613.6
72.5°	946.5	2127.4	11439.5	22283.9	31235.4	33966.8	33362.8	25520.2	15045.3	5562.0	1280.1
75°	802.3	1307.1	5670.1	13891.4	18606.0	18588.0	17984.0	13512.8	8077.0	2722.4	1018.6
77.5°	649.0	919.5	2226.6	3813.2	5868.5	7265.7	7148.5	4786.7	2415.9	793.3	631.0
80°	423.7	432.7	595.0	1045.7	1613.6	1784.9	2028.3	1460.4	703.1	378.6	261.4
82.5°	189.3	207.3	270.4	342.6	342.6	315.5	279.5	207.3	153.2	126.2	63.1
85°	45.1	63.1	45.1	54.1	45.1	36.1	36.1	18.0	0.0	0.0	0.0
87.5°	9.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
2.5°	72.1	72.1	72.1	63.1	63.1	63.1	54.1	54.1	54.1	45.1	45.1
5°	90.1	81.1	72.1	72.1	63.1	63.1	54.1	45.1	45.1	45.1	36.1
7.5°	99.2	90.1	81.1	72.1	63.1	54.1	54.1	45.1	36.1	36.1	36.1
10°	117.2	108.2	90.1	72.1	63.1	54.1	45.1	45.1	36.1	27.0	27.0
12.5°	135.2	117.2	99.2	81.1	63.1	54.1	45.1	45.1	36.1	27.0	18.0
15°	153.2	135.2	108.2	81.1	63.1	54.1	45.1	45.1	27.0	18.0	9.0
17.5°	171.3	144.2	108.2	90.1	63.1	54.1	45.1	36.1	18.0	9.0	0.0
20°	180.3	153.2	117.2	90.1	63.1	54.1	45.1	27.0	9.0	0.0	0.0
22.5°	198.3	171.3	126.2	90.1	63.1	45.1	27.0	9.0	0.0	0.0	0.0
25°	234.4	180.3	126.2	90.1	63.1	45.1	18.0	0.0	0.0	0.0	0.0
27.5°	261.4	198.3	126.2	90.1	63.1	36.1	9.0	0.0	0.0	0.0	0.0
30°	306.5	216.3	135.2	90.1	63.1	27.0	9.0	0.0	0.0	0.0	0.0
32.5°	378.6	234.4	135.2	90.1	54.1	27.0	0.0	0.0	0.0	0.0	0.0
35°	459.7	270.4	135.2	90.1	54.1	27.0	0.0	0.0	0.0	0.0	0.0
37.5°	468.8	288.5	135.2	90.1	54.1	18.0	0.0	0.0	0.0	0.0	0.0
40°	486.8	270.4	144.2	90.1	54.1	18.0	0.0	0.0	0.0	0.0	0.0
42.5°	558.9	252.4	153.2	90.1	54.1	18.0	0.0	0.0	0.0	0.0	0.0
45°	829.3	261.4	153.2	99.2	54.1	27.0	0.0	0.0	0.0	0.0	0.0
47.5°	1442.3	270.4	144.2	99.2	54.1	27.0	0.0	0.0	0.0	0.0	0.0
50°	1848.0	315.5	144.2	108.2	63.1	18.0	0.0	0.0	0.0	0.0	0.0
52.5°	1965.2	369.6	144.2	117.2	81.1	9.0	0.0	0.0	0.0	0.0	0.0
55°	1911.1	432.7	153.2	126.2	99.2	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	1766.8	468.8	162.3	135.2	108.2	0.0	0.0	0.0	0.0	0.0	0.0
59°	1613.6	495.8	189.3	144.2	108.2	0.0	0.0	0.0	0.0	0.0	0.0
60°	1487.4	522.8	198.3	153.2	108.2	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1198.9	558.9	216.3	180.3	90.1	0.0	0.0	0.0	0.0	0.0	0.0
65°	1045.7	585.9	225.4	198.3	81.1	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	955.5	604.0	243.4	207.3	72.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	883.4	595.0	261.4	198.3	63.1	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	802.3	567.9	315.5	180.3	54.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	721.2	513.8	342.6	162.3	36.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	522.8	432.7	315.5	144.2	18.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	225.4	234.4	225.4	108.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	45.1	54.1	45.1	27.0	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°	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
2.5°	45.1	45.1	45.1	45.1	54.1	54.1	72.1	90.1	108.2	117.2	117.2
5°	36.1	36.1	36.1	36.1	36.1	45.1	54.1	72.1	99.2	108.2	108.2
7.5°	27.0	27.0	27.0	27.0	27.0	27.0	45.1	63.1	90.1	99.2	108.2
10°	27.0	18.0	18.0	9.0	9.0	18.0	27.0	54.1	81.1	90.1	99.2
12.5°	18.0	9.0	9.0	0.0	0.0	9.0	18.0	45.1	72.1	81.1	90.1
15°	9.0	0.0	0.0	0.0	0.0	0.0	9.0	36.1	63.1	72.1	90.1
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.0	54.1	72.1	81.1
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.0	45.1	63.1	72.1
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	36.1	54.1	63.1
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.0	36.1	45.1
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.0	27.0	36.1
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.0	27.0	36.1
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	18.0	27.0
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	18.0	27.0
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	18.0	18.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	18.0
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	18.0
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	18.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	18.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	18.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	9.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	9.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	9.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	18.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	18.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	9.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	9.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	9.0
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):

	285°	295°	305°	315°	318°	325°	335°	345°	355°	360°
0°	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
2.5°	126.2	126.2	117.2	108.2	108.2	108.2	117.2	126.2	126.2	126.2
5°	117.2	117.2	108.2	108.2	108.2	108.2	117.2	135.2	144.2	144.2
7.5°	117.2	117.2	108.2	108.2	108.2	108.2	117.2	135.2	144.2	153.2
10°	108.2	108.2	108.2	108.2	99.2	108.2	117.2	135.2	162.3	162.3
12.5°	108.2	108.2	108.2	108.2	99.2	108.2	126.2	144.2	171.3	180.3
15°	108.2	108.2	108.2	99.2	99.2	108.2	126.2	153.2	180.3	198.3
17.5°	99.2	108.2	108.2	99.2	99.2	108.2	126.2	153.2	198.3	225.4
20°	90.1	99.2	108.2	99.2	99.2	99.2	126.2	153.2	207.3	243.4
22.5°	81.1	90.1	99.2	99.2	90.1	99.2	126.2	162.3	225.4	270.4
25°	72.1	81.1	81.1	90.1	90.1	99.2	126.2	162.3	234.4	306.5
27.5°	54.1	63.1	72.1	81.1	81.1	99.2	126.2	171.3	252.4	378.6
30°	45.1	54.1	63.1	72.1	81.1	99.2	126.2	171.3	270.4	477.8
32.5°	45.1	54.1	63.1	72.1	81.1	90.1	126.2	180.3	297.5	595.0
35°	36.1	45.1	54.1	72.1	72.1	90.1	126.2	180.3	324.5	775.3
37.5°	36.1	45.1	54.1	72.1	72.1	90.1	126.2	180.3	396.6	865.4
40°	27.0	36.1	45.1	72.1	72.1	90.1	135.2	189.3	405.7	874.4
42.5°	27.0	36.1	45.1	63.1	72.1	90.1	135.2	189.3	378.6	901.5
45°	27.0	36.1	45.1	72.1	81.1	99.2	135.2	198.3	369.6	1027.7
47.5°	27.0	36.1	45.1	72.1	90.1	99.2	135.2	198.3	378.6	1469.4
50°	27.0	36.1	45.1	72.1	99.2	99.2	135.2	198.3	414.7	2361.8
52.5°	18.0	27.0	36.1	63.1	81.1	108.2	144.2	189.3	441.7	3155.1
55°	18.0	18.0	27.0	54.1	72.1	117.2	153.2	189.3	513.8	3353.4
57.5°	18.0	18.0	27.0	45.1	63.1	126.2	162.3	189.3	595.0	3254.2
59°	18.0	18.0	18.0	36.1	54.1	126.2	171.3	207.3	613.0	2884.7
60°	18.0	18.0	18.0	36.1	54.1	126.2	171.3	207.3	613.0	2884.7
62.5°	9.0	9.0	9.0	36.1	45.1	126.2	189.3	252.4	631.0	2226.6
65°	18.0	18.0	9.0	27.0	45.1	108.2	216.3	270.4	640.0	1730.8
67.5°	18.0	18.0	18.0	36.1	45.1	108.2	225.4	279.5	640.0	1370.2
70°	18.0	18.0	18.0	36.1	54.1	108.2	225.4	288.5	631.0	1117.8
72.5°	18.0	18.0	18.0	36.1	54.1	99.2	207.3	297.5	604.0	946.5
75°	18.0	18.0	18.0	27.0	45.1	90.1	198.3	324.5	549.9	802.3
77.5°	18.0	18.0	18.0	18.0	36.1	72.1	180.3	360.6	486.8	649.0
80°	27.0	18.0	18.0	18.0	27.0	63.1	171.3	351.6	405.7	423.7
82.5°	27.0	18.0	18.0	9.0	18.0	45.1	135.2	270.4	207.3	189.3
85°	18.0	18.0	18.0	9.0	9.0	27.0	63.1	81.1	63.1	45.1
87.5°	18.0	18.0	18.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
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: SP1-2407-184-4

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-730-U-5WQ

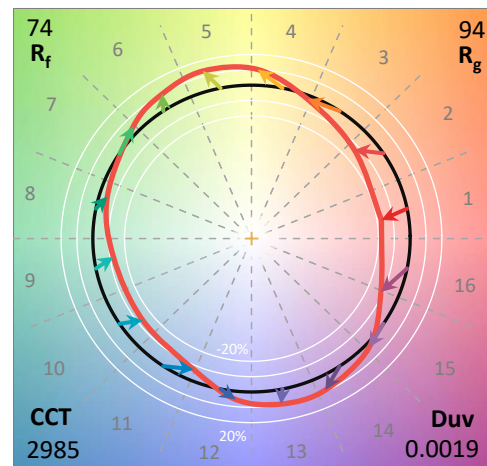
Data in this report applies to families of products including GSS-SB1A-730-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-4
 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-730-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 3000K CCT 26 LEDS

Spectral Parameters

CCT (K):	2985	CRI (Ra):	70.8		
CIE u':	0.2504	R1:	66.3	R9:	-43.2
CIE v':	0.5243	R2:	80.6	R10:	57.6
Duv:	0.0019	R3:	94.5	R11:	64.8
CIE x:	0.4408	R4:	68.2	R12:	53.5
CIE y:	0.4101	R5:	66.5	R13:	68.7
CIE z:	0.1491	R6:	74.7	R14:	97.0
Peak Wavelength (nm):	595	R7:	76.2	R15:	56.4
Dominant Wavelength (nm):	582	R8:	39.6		
Purity:	55.41818				
Rf:	73.8				
Rg:	94.4				



Test Conditions

Stabilization Time: 36M
 Operation Time: 1H 36M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-4

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

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Photopic Flux vs. Wavelength

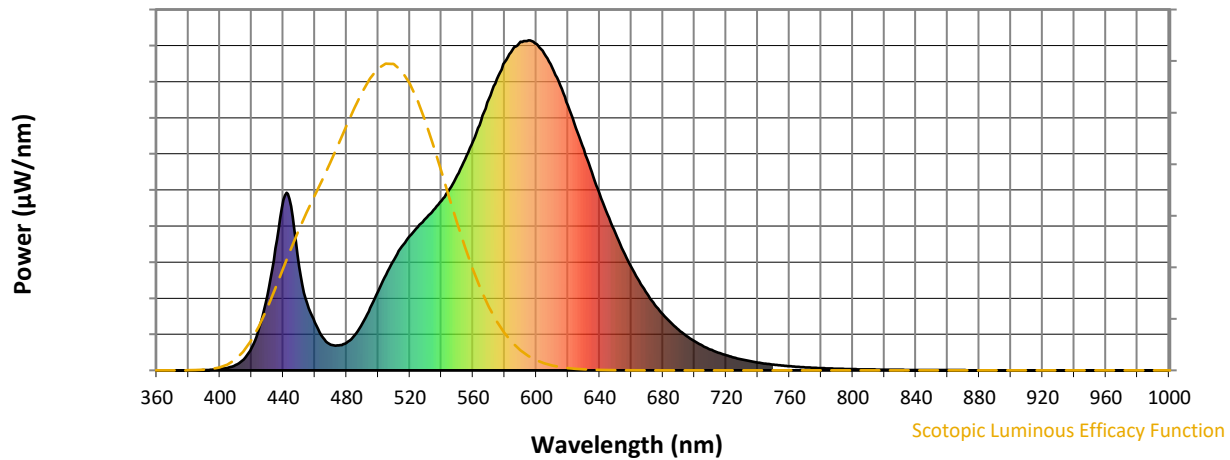


Photopic Lumens: NR

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-4

Scotopic Flux vs. Wavelength



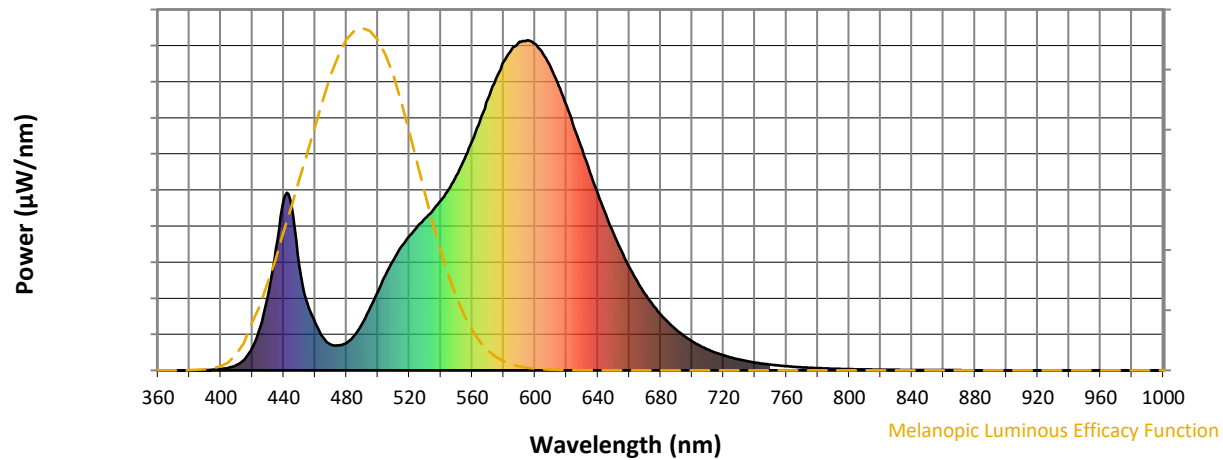
Scotopic Lumens: NR

S/P: 1.19

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.13

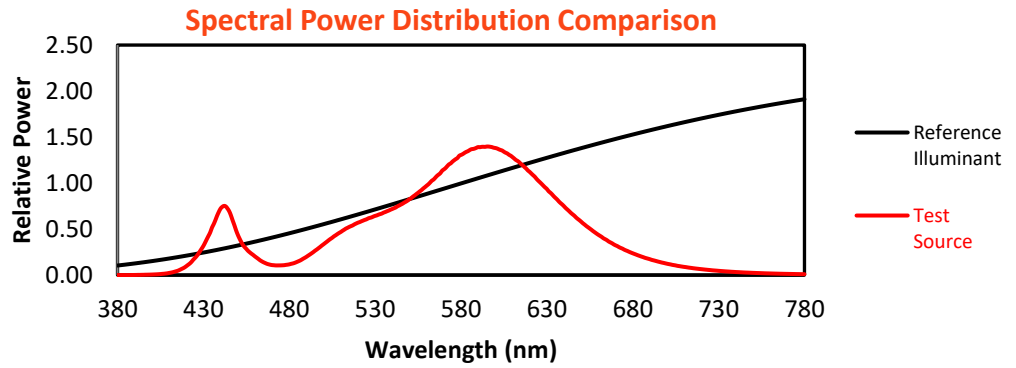
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

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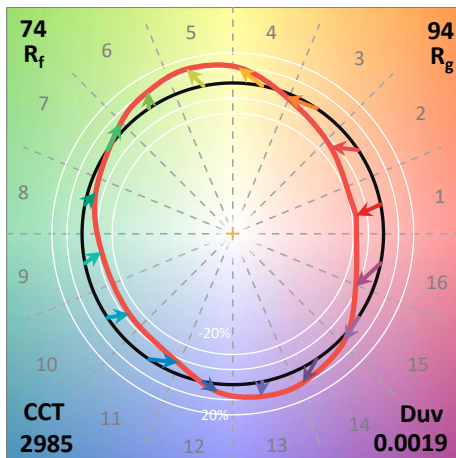
TM-30-18

Summary

$R_f = 73.8$
 $R_g = 94.4$
 $CIE\ R_a = 70.8$
 $R_g = -43.2$

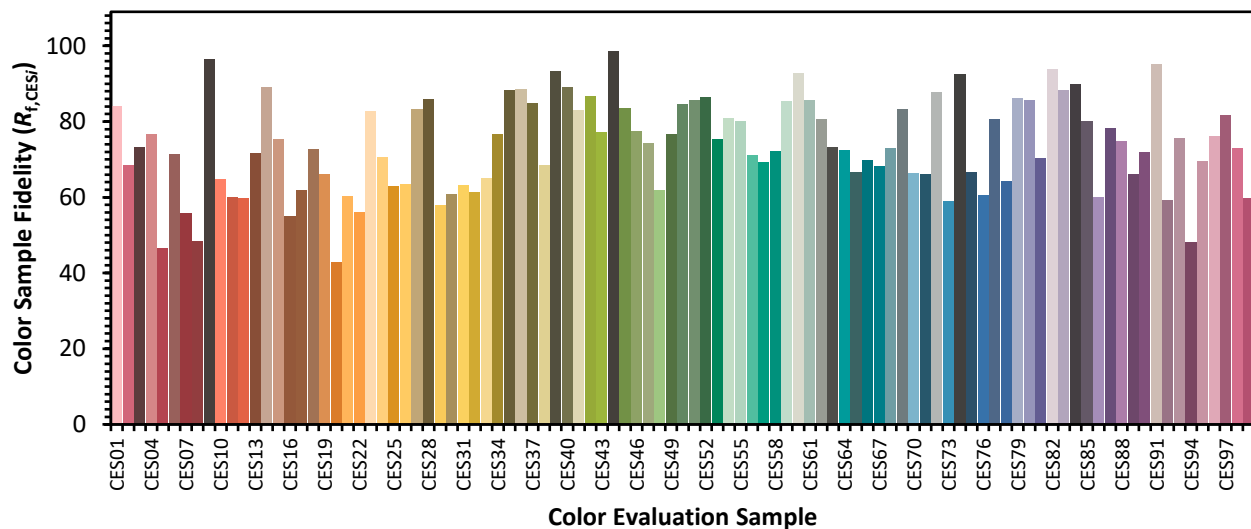


Color Vector Graphics



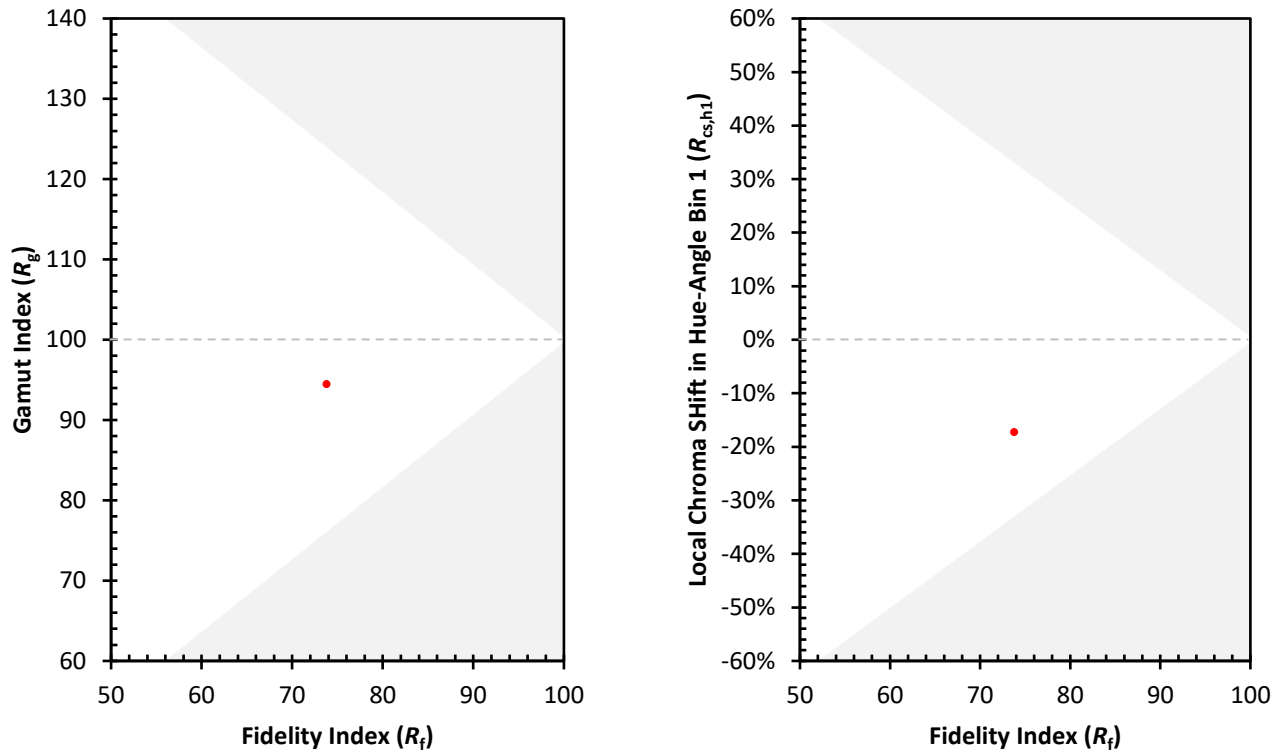
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 63	CES51 = 86	CES76 = 61
CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82 = 94
CES08 = 40	CES33 = 65	CES58 = 72	CES83 = 88
CES09 = 29	CES34 = 77	CES59 = 85	CES84 = 90
CES10 = 76	CES35 = 88	CES60 = 93	CES85 = 80
CES11 = 59	CES36 = 89	CES61 = 86	CES86 = 60
CES12 = 65	CES37 = 85	CES62 = 81	CES87 = 78
CES13 = 43	CES38 = 69	CES63 = 73	CES88 = 75
CES14 = 74	CES39 = 93	CES64 = 72	CES89 = 66
CES15 = 71	CES40 = 89	CES65 = 67	CES90 = 72
CES16 = 47	CES41 = 83	CES66 = 70	CES91 = 95
CES17 = 50	CES42 = 87	CES67 = 68	CES92 = 59
CES18 = 56	CES43 = 77	CES68 = 73	CES93 = 76
CES19 = 73	CES44 = 99	CES69 = 83	CES94 = 48
CES20 = 66	CES45 = 83	CES70 = 66	CES95 = 70
CES21 = 87	CES46 = 77	CES71 = 66	CES96 = 76
CES22 = 79	CES47 = 74	CES72 = 88	CES97 = 82
CES23 = 92	CES48 = 62	CES73 = 59	CES98 = 73
CES24 = 91	CES49 = 77	CES74 = 93	CES99 = 60
CES25 = 73	CES50 = 85	CES75 = 67	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)