

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: P1067952

Luminaire Tested: **NAV-SA3D-730-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067952
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA3D-730-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 1200mA 3xLight Square PACKAGE
70CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (42) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14373.1 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 160.9
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



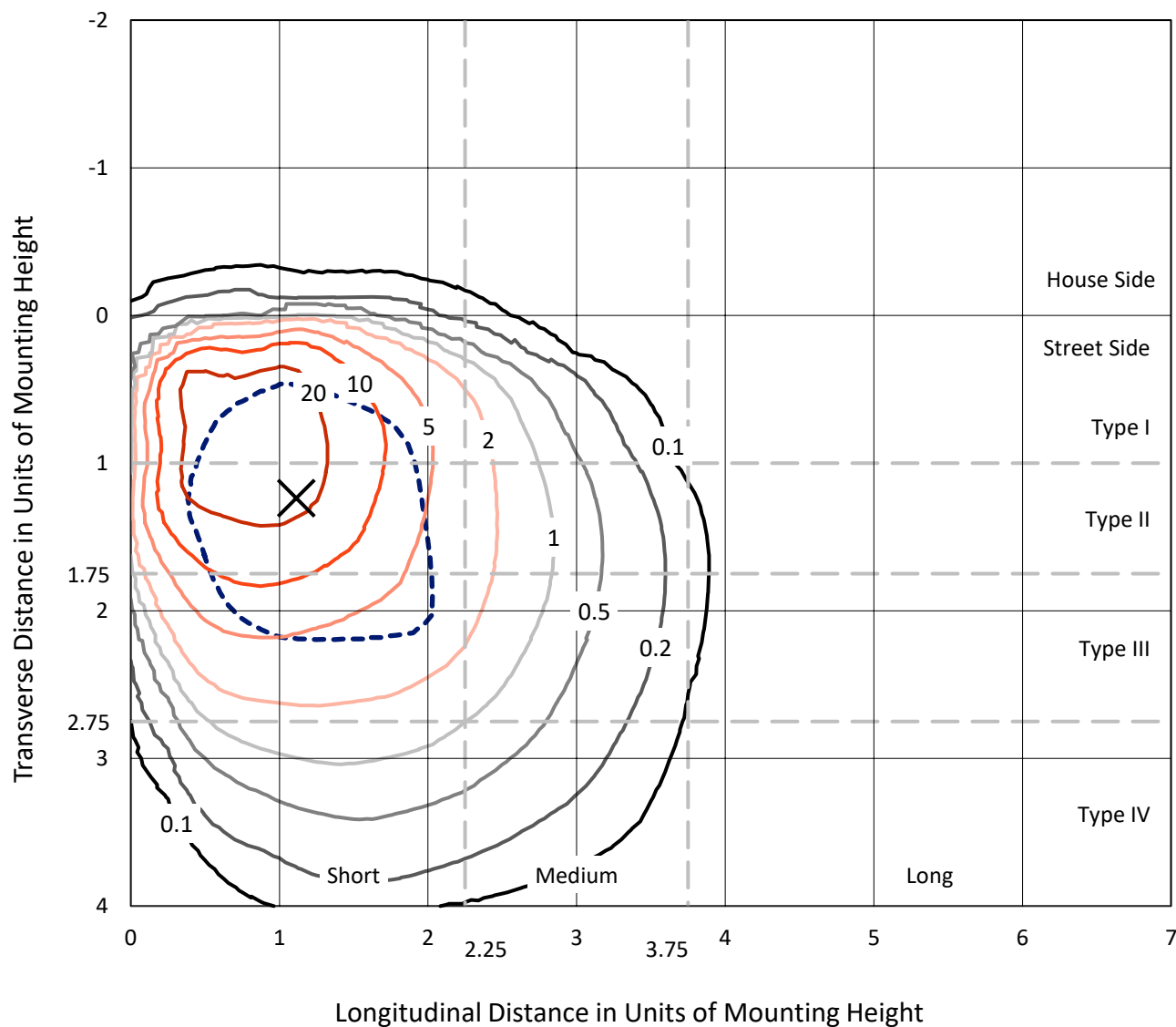
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

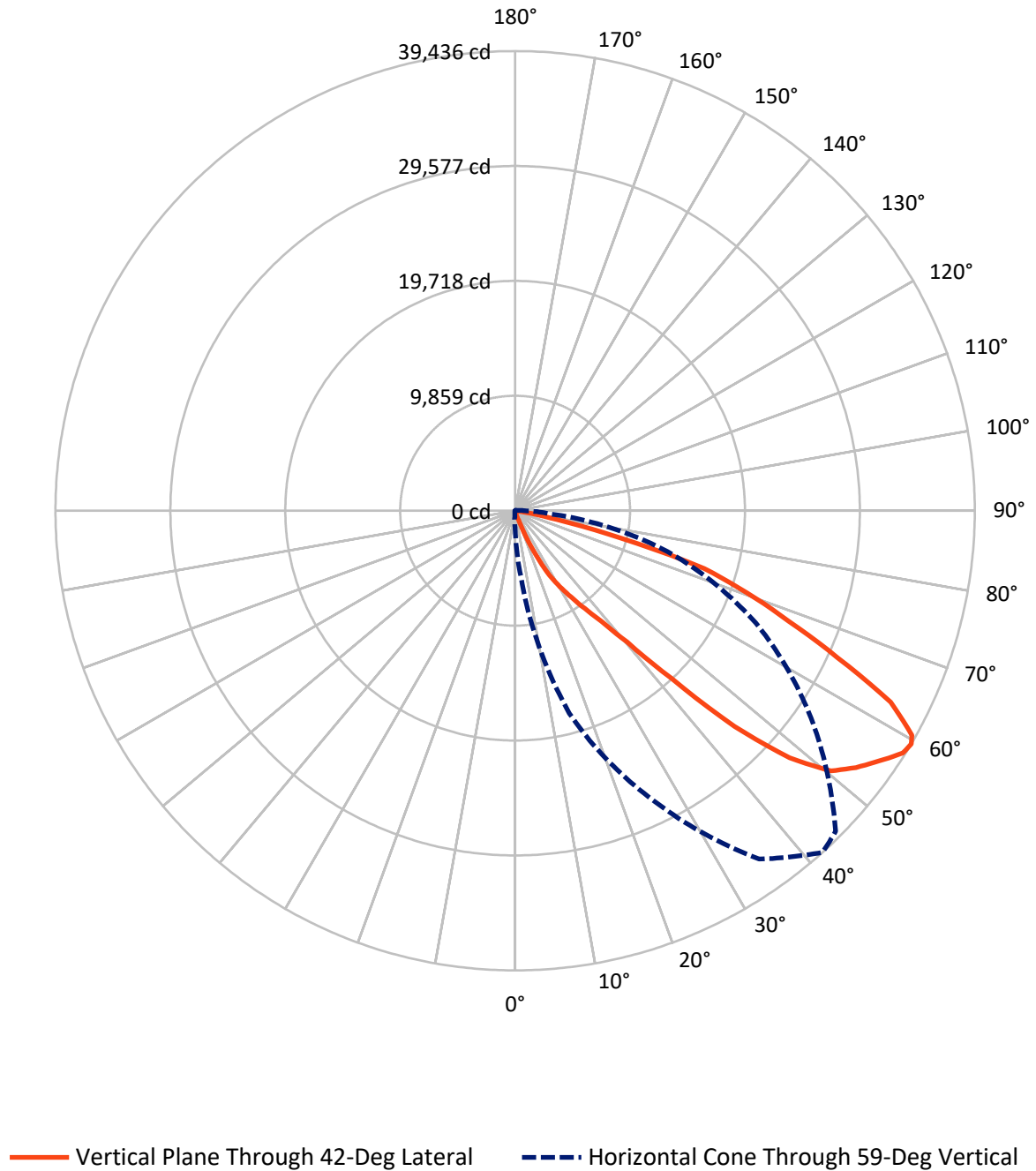


Based on 15 foot mounting height. Maximum calculated value = 42.7 fc
 Type III - Short - N/A

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CATALOG NUMBER: NAV-SA3D-730-U-LBC

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	69.2	0.0	69.2
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	14303.8	0.0	14303.8
	% Fixture	99.5	0.0	99.5
Total	Lumens	14373.1	0.0	14373.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.2	0.0
10°-20°	21.0	0.1
20°-30°	268.1	1.9
30°-40°	903.9	6.3
40°-50°	2730.1	19.0
50°-60°	4819.3	33.5
60°-70°	4243.5	29.5
70°-80°	1350.7	9.4
80°-90°	32.3	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°	14373.1	100.0
0°-180°	14373.1	100.0



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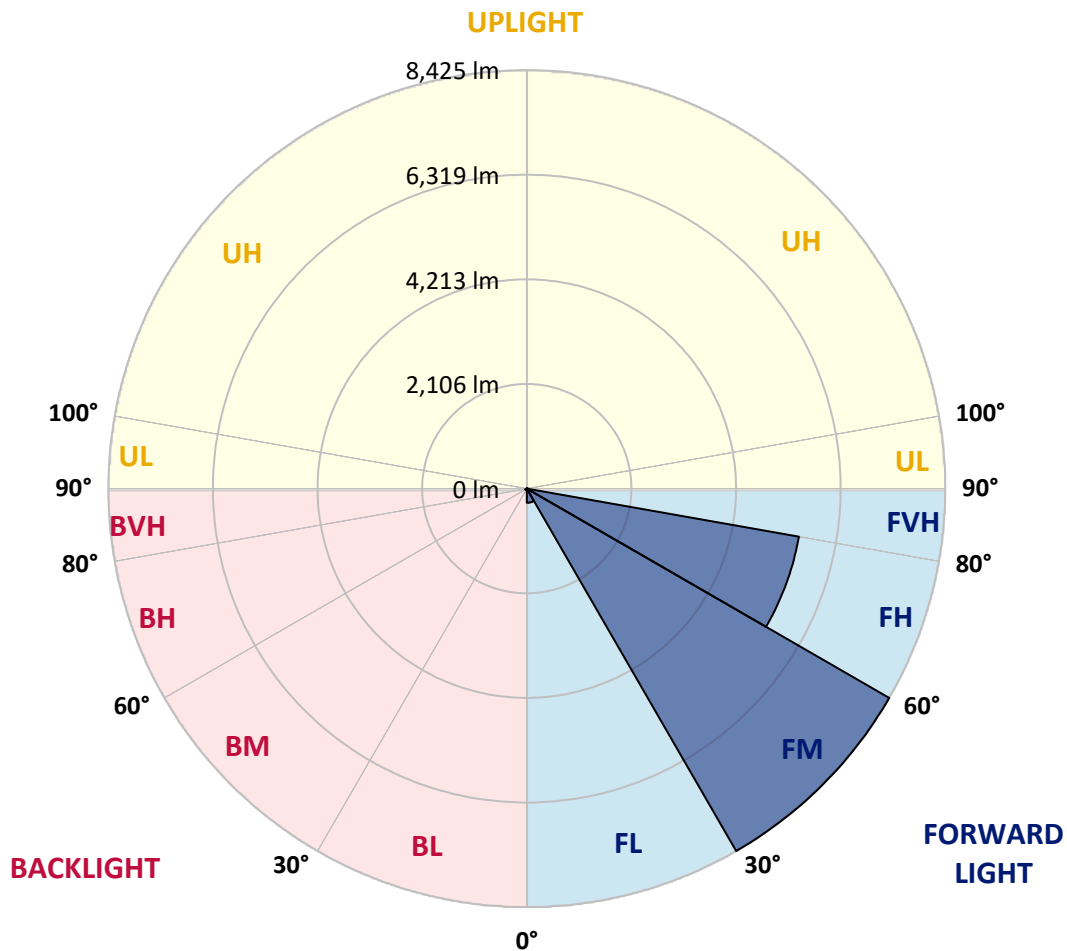
CATALOG NUMBER: NAV-SA3D-730-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	285.5	2.0			
FM	(30°-60°)	8425.0	58.6			
FH	(60°-80°)	5562.5	38.7			G3/7500
FVH	(80°-90°)	30.7	0.2			G1/100
BL	(0°-30°)	7.7	0.1	B0/110		
BM	(30°-60°)	28.3	0.2	B0/220		
BH	(60°-80°)	31.7	0.2	B0/110		G0/110
BVH	(80°-90°)	1.6	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6
2.5°	63.1	63.1	58.6	54.1	49.6	45.1	45.1	45.1	40.6	40.6	36.1
5°	72.1	72.1	67.6	63.1	63.1	58.6	58.6	54.1	49.6	49.6	45.1
7.5°	76.6	76.6	76.6	76.6	72.1	72.1	72.1	67.6	63.1	58.6	54.1
10°	81.1	85.6	90.1	90.1	90.1	90.1	90.1	85.6	76.6	72.1	63.1
12.5°	90.1	94.6	103.6	112.7	112.7	117.2	112.7	108.2	99.1	85.6	72.1
15°	99.1	108.2	121.7	139.7	157.7	162.2	162.2	148.7	130.7	103.6	85.6
17.5°	112.7	126.2	162.2	220.8	283.9	333.5	333.5	297.4	207.3	135.2	99.1
20°	121.7	148.7	261.4	531.8	811.2	1018.5	977.9	865.2	464.2	211.8	108.2
22.5°	135.2	189.3	554.3	1397.0	2163.1	2541.6	2451.5	1861.2	1041.0	378.5	130.7
25°	153.2	274.9	1099.6	2618.2	4019.7	4429.8	4371.3	3474.5	1897.2	635.4	166.7
27.5°	189.3	405.6	1762.0	3970.2	5930.5	6282.0	6259.4	5087.8	3032.8	1023.0	216.3
30°	238.8	590.3	2613.7	5394.2	7196.8	7552.8	7440.1	6268.5	4091.9	1563.7	279.4
32.5°	297.4	824.7	3384.3	6444.2	8364.0	8832.6	8697.4	7295.9	4943.6	2023.4	414.6
35°	387.6	1054.5	4145.9	7372.5	9711.4	10306.2	10080.9	8354.9	5678.1	2541.6	500.2
37.5°	432.6	1189.7	4844.4	8382.0	11225.6	12036.7	11865.5	9693.4	6426.2	3204.1	612.9
40°	437.1	1351.9	5570.0	9697.9	13366.1	14812.7	14506.2	11991.6	7818.7	4055.8	788.6
42.5°	450.6	1595.3	6511.8	11942.1	17570.6	19648.1	19301.1	16218.7	10977.7	5763.7	1117.6
45°	513.7	2054.9	8431.6	16137.6	23343.4	26389.7	25988.7	22108.6	15389.5	8976.8	1906.2
47.5°	734.6	3091.4	11797.9	20666.5	29246.8	31675.8	31576.6	26750.2	19386.7	12271.0	3231.1
50°	1180.7	4745.3	15628.3	24474.5	33005.2	35091.7	34843.8	28688.0	21667.0	14519.8	4141.4
52.5°	1577.3	6327.0	18034.8	25876.0	34127.3	36614.9	36312.9	29395.5	22266.3	15182.2	4393.8
55°	1676.4	6899.4	18751.3	26308.6	34870.9	37903.7	37466.6	29868.7	22342.9	14709.0	3974.7
57.5°	1626.8	6358.6	18287.1	26732.2	35907.3	39228.6	38647.3	30792.5	22599.8	13906.9	3307.7
59°	1541.2	5691.6	17998.7	27070.2	36479.7	39435.9	38890.6	30995.3	22771.1	13541.9	2902.1
60°	1442.1	5241.0	17773.4	27291.0	36443.6	39111.4	38548.1	30900.7	22838.7	13226.4	2708.4
62.5°	1113.1	4182.0	17448.9	27133.3	34167.9	36150.7	35830.7	28584.4	21847.2	12217.0	2136.1
65°	865.2	3199.6	16259.2	24199.6	29075.6	30409.5	30310.3	24204.1	18386.3	10531.6	1541.2
67.5°	685.0	2334.3	13749.2	19598.5	23392.9	25290.2	25218.1	19648.1	13956.5	8048.5	1108.6
70°	558.8	1662.9	9427.5	14776.6	18710.8	21099.2	20995.5	15813.1	10342.3	5105.8	806.7
72.5°	473.2	1063.5	5718.7	11139.9	15614.8	16980.3	16678.3	12757.7	7521.3	2780.5	639.9
75°	401.1	653.4	2834.6	6944.4	9301.3	9292.3	8990.4	6755.2	4037.8	1360.9	509.2
77.5°	324.5	459.7	1113.1	1906.2	2933.7	3632.2	3573.6	2392.9	1207.7	396.6	315.5
80°	211.8	216.3	297.4	522.7	806.7	892.3	1013.9	730.0	351.5	189.3	130.7
82.5°	94.6	103.6	135.2	171.2	171.2	157.7	139.7	103.6	76.6	63.1	31.5
85°	22.5	31.5	22.5	27.0	22.5	18.0	18.0	9.0	0.0	0.0	0.0
87.5°	4.5	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°	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6
2.5°	36.1	36.1	36.1	31.5	31.5	31.5	27.0	27.0	27.0	22.5	22.5
5°	45.1	40.6	36.1	36.1	31.5	31.5	27.0	22.5	22.5	22.5	18.0
7.5°	49.6	45.1	40.6	36.1	31.5	27.0	27.0	22.5	18.0	18.0	18.0
10°	58.6	54.1	45.1	36.1	31.5	27.0	22.5	22.5	18.0	13.5	13.5
12.5°	67.6	58.6	49.6	40.6	31.5	27.0	22.5	22.5	18.0	13.5	9.0
15°	76.6	67.6	54.1	40.6	31.5	27.0	22.5	22.5	13.5	9.0	4.5
17.5°	85.6	72.1	54.1	45.1	31.5	27.0	22.5	18.0	9.0	4.5	0.0
20°	90.1	76.6	58.6	45.1	31.5	27.0	22.5	13.5	4.5	0.0	0.0
22.5°	99.1	85.6	63.1	45.1	31.5	22.5	13.5	4.5	0.0	0.0	0.0
25°	117.2	90.1	63.1	45.1	31.5	22.5	9.0	0.0	0.0	0.0	0.0
27.5°	130.7	99.1	63.1	45.1	31.5	18.0	4.5	0.0	0.0	0.0	0.0
30°	153.2	108.2	67.6	45.1	31.5	13.5	4.5	0.0	0.0	0.0	0.0
32.5°	189.3	117.2	67.6	45.1	27.0	13.5	0.0	0.0	0.0	0.0	0.0
35°	229.8	135.2	67.6	45.1	27.0	13.5	0.0	0.0	0.0	0.0	0.0
37.5°	234.3	144.2	67.6	45.1	27.0	9.0	0.0	0.0	0.0	0.0	0.0
40°	243.3	135.2	72.1	45.1	27.0	9.0	0.0	0.0	0.0	0.0	0.0
42.5°	279.4	126.2	76.6	45.1	27.0	9.0	0.0	0.0	0.0	0.0	0.0
45°	414.6	130.7	76.6	49.6	27.0	13.5	0.0	0.0	0.0	0.0	0.0
47.5°	721.0	135.2	72.1	49.6	27.0	13.5	0.0	0.0	0.0	0.0	0.0
50°	923.8	157.7	72.1	54.1	31.5	9.0	0.0	0.0	0.0	0.0	0.0
52.5°	982.4	184.8	72.1	58.6	40.6	4.5	0.0	0.0	0.0	0.0	0.0
55°	955.4	216.3	76.6	63.1	49.6	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	883.3	234.3	81.1	67.6	54.1	0.0	0.0	0.0	0.0	0.0	0.0
59°	806.7	247.9	94.6	72.1	54.1	0.0	0.0	0.0	0.0	0.0	0.0
60°	743.6	261.4	99.1	76.6	54.1	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	599.4	279.4	108.2	90.1	45.1	0.0	0.0	0.0	0.0	0.0	0.0
65°	522.7	292.9	112.7	99.1	40.6	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	477.7	301.9	121.7	103.6	36.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	441.6	297.4	130.7	99.1	31.5	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	401.1	283.9	157.7	90.1	27.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	360.5	256.9	171.2	81.1	18.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	261.4	216.3	157.7	72.1	9.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	112.7	117.2	112.7	54.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	22.5	27.0	22.5	13.5	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°	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6
2.5°	22.5	22.5	22.5	22.5	27.0	27.0	36.1	45.1	54.1	58.6	58.6
5°	18.0	18.0	18.0	18.0	18.0	22.5	27.0	36.1	49.6	54.1	54.1
7.5°	13.5	13.5	13.5	13.5	13.5	13.5	22.5	31.5	45.1	49.6	54.1
10°	13.5	9.0	9.0	4.5	4.5	9.0	13.5	27.0	40.6	45.1	49.6
12.5°	9.0	4.5	4.5	0.0	0.0	4.5	9.0	22.5	36.1	40.6	45.1
15°	4.5	0.0	0.0	0.0	0.0	0.0	4.5	18.0	31.5	36.1	45.1
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.5	27.0	36.1	40.6
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	22.5	31.5	36.1
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	18.0	27.0	31.5
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.5	18.0	22.5
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	13.5	18.0
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	13.5	18.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	9.0	13.5
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	9.0	13.5
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	9.0	9.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	9.0
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	9.0
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	9.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	9.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	9.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	4.5
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	4.5
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	4.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	9.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	9.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	4.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	4.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	4.5
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°	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6
2.5°	63.1	63.1	58.6	54.1	54.1	54.1	58.6	63.1	63.1	63.1
5°	58.6	58.6	54.1	54.1	54.1	54.1	58.6	67.6	72.1	72.1
7.5°	58.6	58.6	54.1	54.1	54.1	54.1	58.6	67.6	72.1	76.6
10°	54.1	54.1	54.1	54.1	49.6	54.1	58.6	67.6	81.1	81.1
12.5°	54.1	54.1	54.1	54.1	49.6	54.1	63.1	72.1	85.6	90.1
15°	54.1	54.1	54.1	49.6	49.6	54.1	63.1	76.6	90.1	99.1
17.5°	49.6	54.1	54.1	49.6	49.6	54.1	63.1	76.6	99.1	112.7
20°	45.1	49.6	54.1	49.6	49.6	49.6	63.1	76.6	103.6	121.7
22.5°	40.6	45.1	49.6	49.6	45.1	49.6	63.1	81.1	112.7	135.2
25°	36.1	40.6	40.6	45.1	45.1	49.6	63.1	81.1	117.2	153.2
27.5°	27.0	31.5	36.1	40.6	40.6	49.6	63.1	85.6	126.2	189.3
30°	22.5	27.0	31.5	36.1	40.6	49.6	63.1	85.6	135.2	238.8
32.5°	22.5	27.0	31.5	36.1	40.6	45.1	63.1	90.1	148.7	297.4
35°	18.0	22.5	27.0	36.1	36.1	45.1	63.1	90.1	162.2	387.6
37.5°	18.0	22.5	27.0	36.1	36.1	45.1	63.1	90.1	198.3	432.6
40°	13.5	18.0	22.5	36.1	36.1	45.1	67.6	94.6	202.8	437.1
42.5°	13.5	18.0	22.5	31.5	36.1	45.1	67.6	94.6	189.3	450.6
45°	13.5	18.0	22.5	36.1	40.6	49.6	67.6	99.1	184.8	513.7
47.5°	13.5	18.0	22.5	36.1	45.1	49.6	67.6	99.1	189.3	734.6
50°	13.5	18.0	22.5	36.1	49.6	49.6	67.6	99.1	207.3	1180.7
52.5°	9.0	13.5	18.0	31.5	40.6	54.1	72.1	94.6	220.8	1577.3
55°	9.0	9.0	13.5	27.0	36.1	58.6	76.6	94.6	256.9	1676.4
57.5°	9.0	9.0	13.5	22.5	31.5	63.1	81.1	94.6	297.4	1626.8
59°	9.0	9.0	9.0	22.5	27.0	63.1	81.1	99.1	301.9	1541.2
60°	9.0	9.0	9.0	18.0	27.0	63.1	85.6	103.6	306.4	1442.1
62.5°	4.5	4.5	4.5	18.0	22.5	63.1	94.6	126.2	315.5	1113.1
65°	9.0	9.0	4.5	13.5	22.5	54.1	108.2	135.2	320.0	865.2
67.5°	9.0	9.0	9.0	18.0	22.5	54.1	112.7	139.7	320.0	685.0
70°	9.0	9.0	9.0	18.0	27.0	54.1	112.7	144.2	315.5	558.8
72.5°	9.0	9.0	9.0	18.0	27.0	49.6	103.6	148.7	301.9	473.2
75°	9.0	9.0	9.0	13.5	22.5	45.1	99.1	162.2	274.9	401.1
77.5°	9.0	9.0	9.0	9.0	18.0	36.1	90.1	180.3	243.3	324.5
80°	13.5	9.0	9.0	9.0	13.5	31.5	85.6	175.8	202.8	211.8
82.5°	13.5	9.0	9.0	4.5	9.0	22.5	67.6	135.2	103.6	94.6
85°	9.0	9.0	9.0	4.5	4.5	13.5	31.5	40.6	31.5	22.5
87.5°	9.0	9.0	9.0	4.5	4.5	4.5	4.5	4.5	4.5	4.5
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

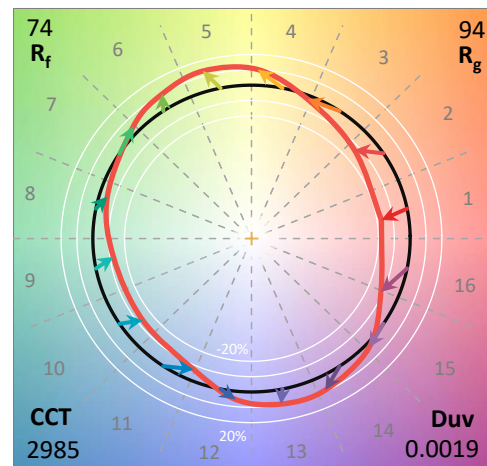
Data in this report applies to families of products including GSS-SB1A-730-U-5WQ

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

REPORT NUMBER: SP1-2407-184-4

Photopic Flux vs. Wavelength

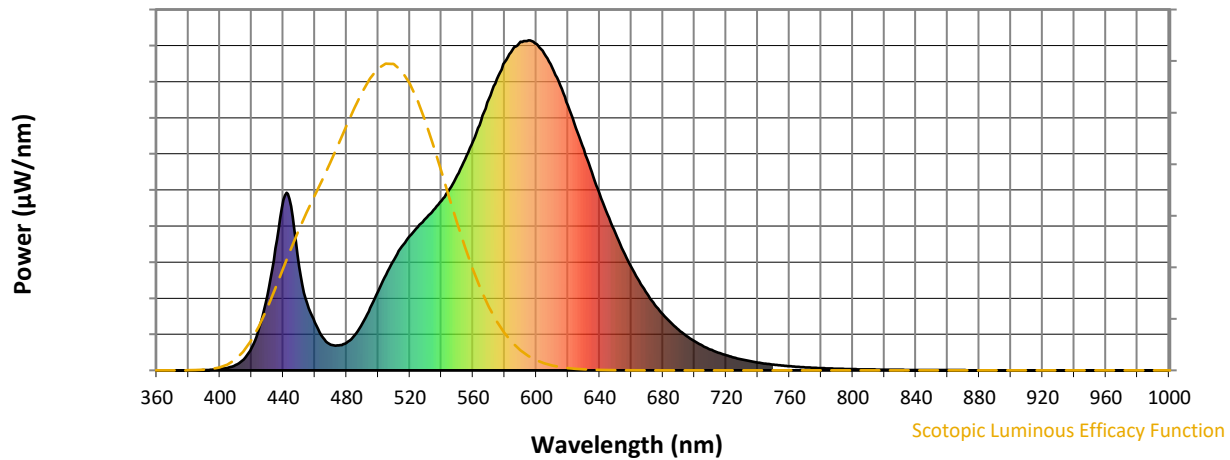


Photopic Lumens: NR

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	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



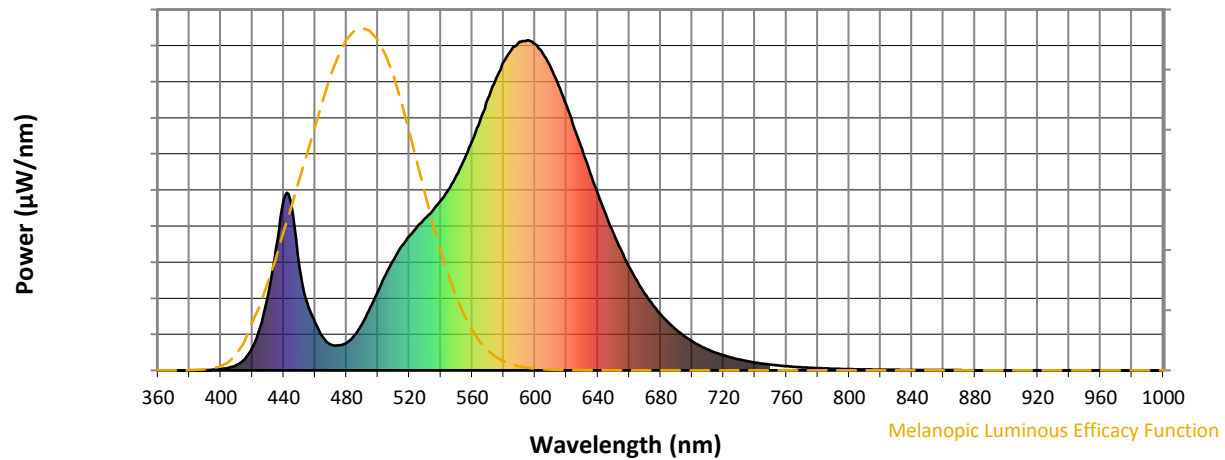
Scotopic Lumens: NR

S/P: 1.19

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.13

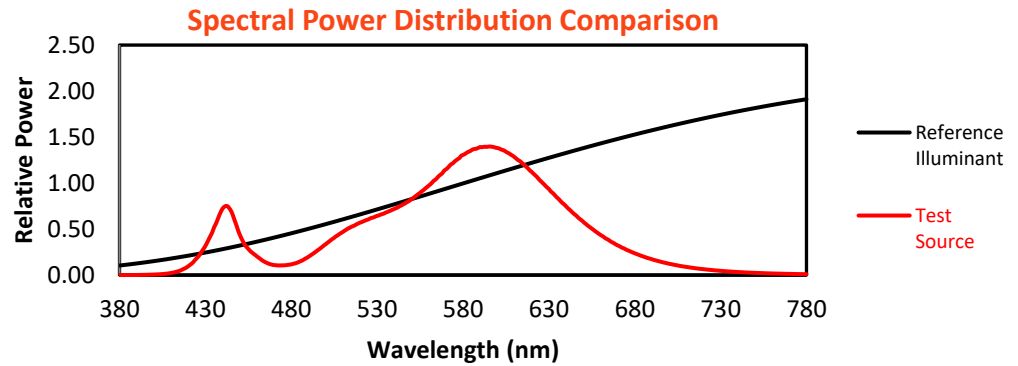
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	142	NR	620	803	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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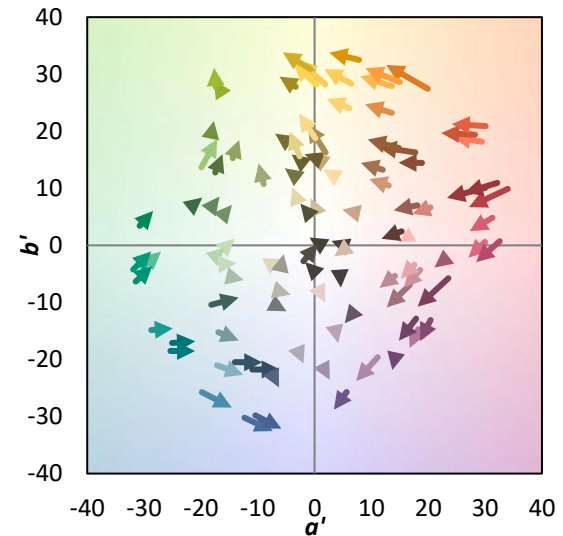
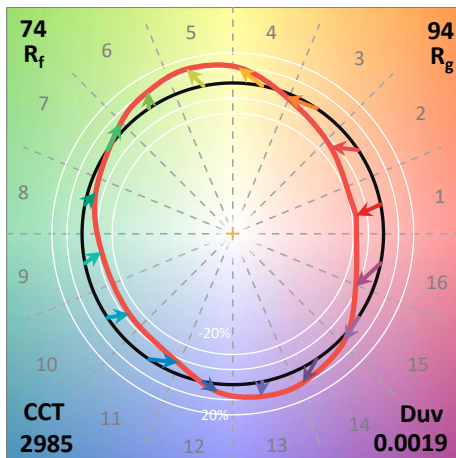
TM-30-18

Summary

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

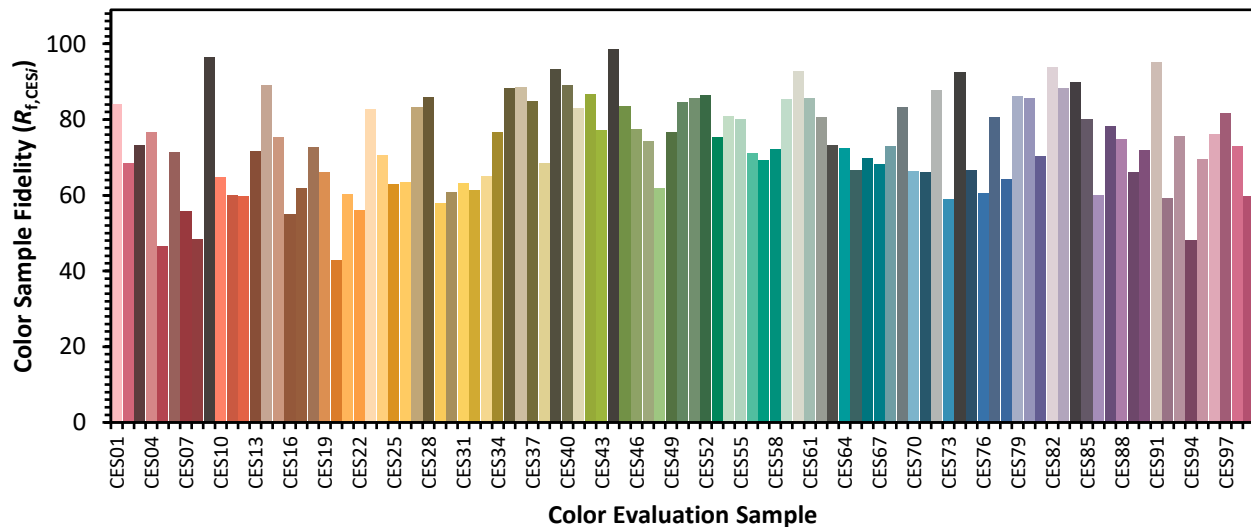


Color Vector Graphics



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

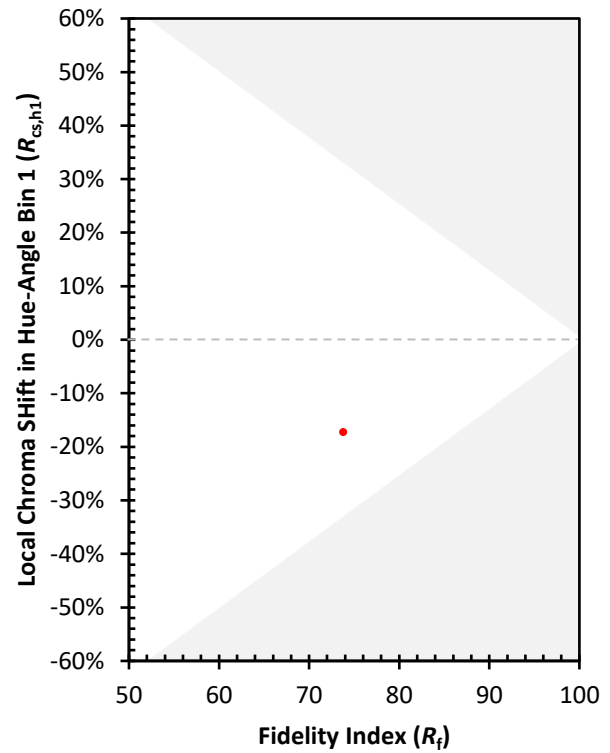
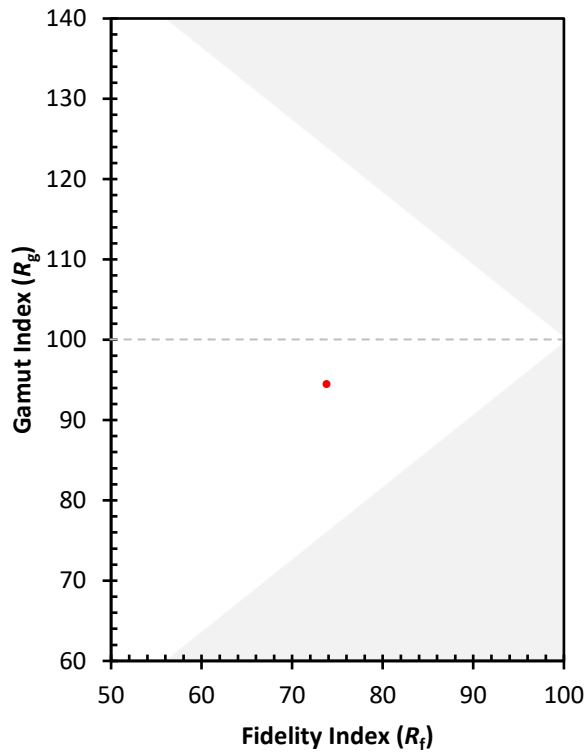
CES01 = 86	CES26 = 63	CES51 = 86	CES76 = 61
CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82 = 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)