

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: P1067958

Luminaire Tested: **NAV-SA5B-730-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067958
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA5B-730-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 800mA 5xLight Square PACKAGE
70CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (70) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17471.5 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 178.8
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



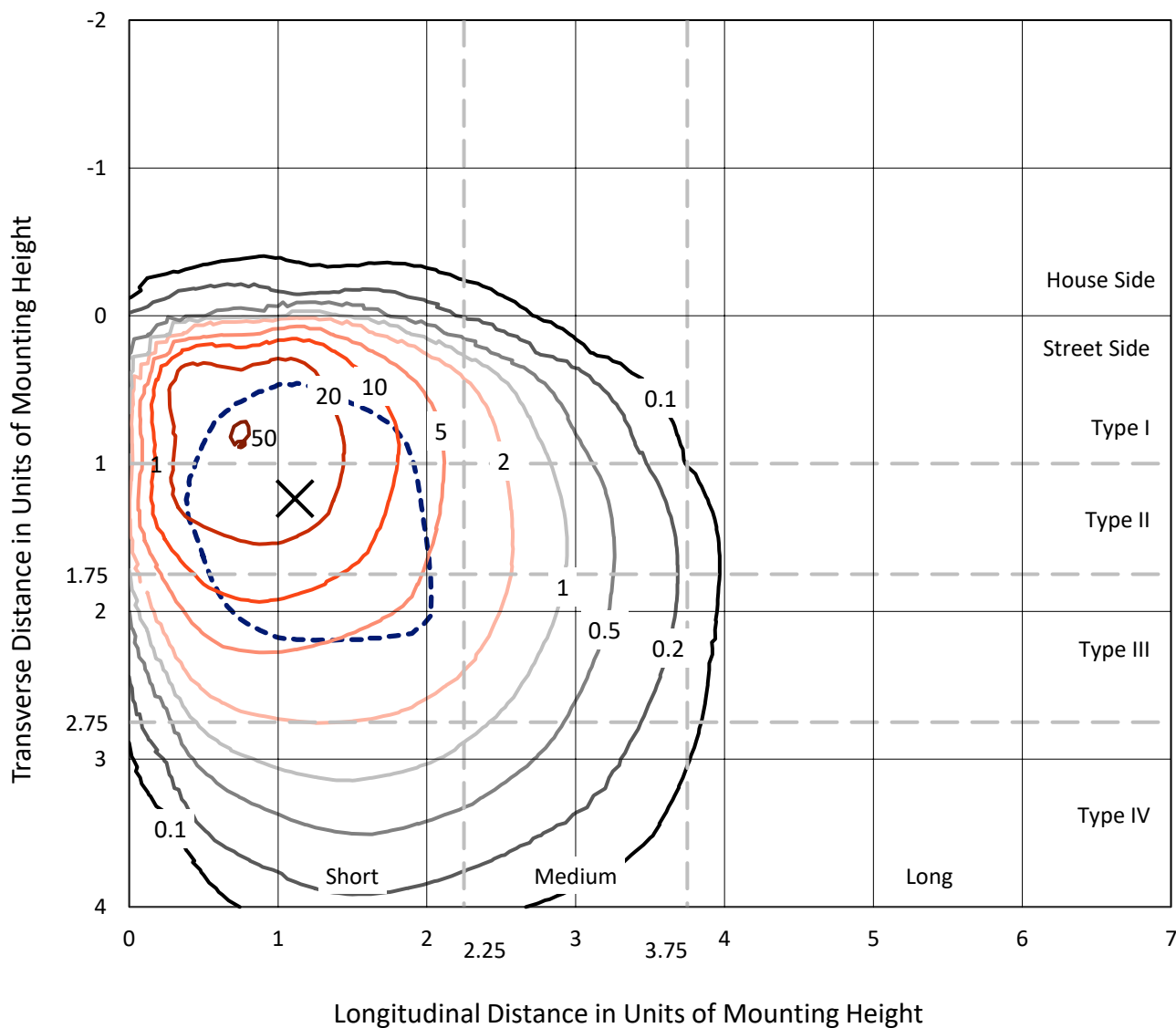
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

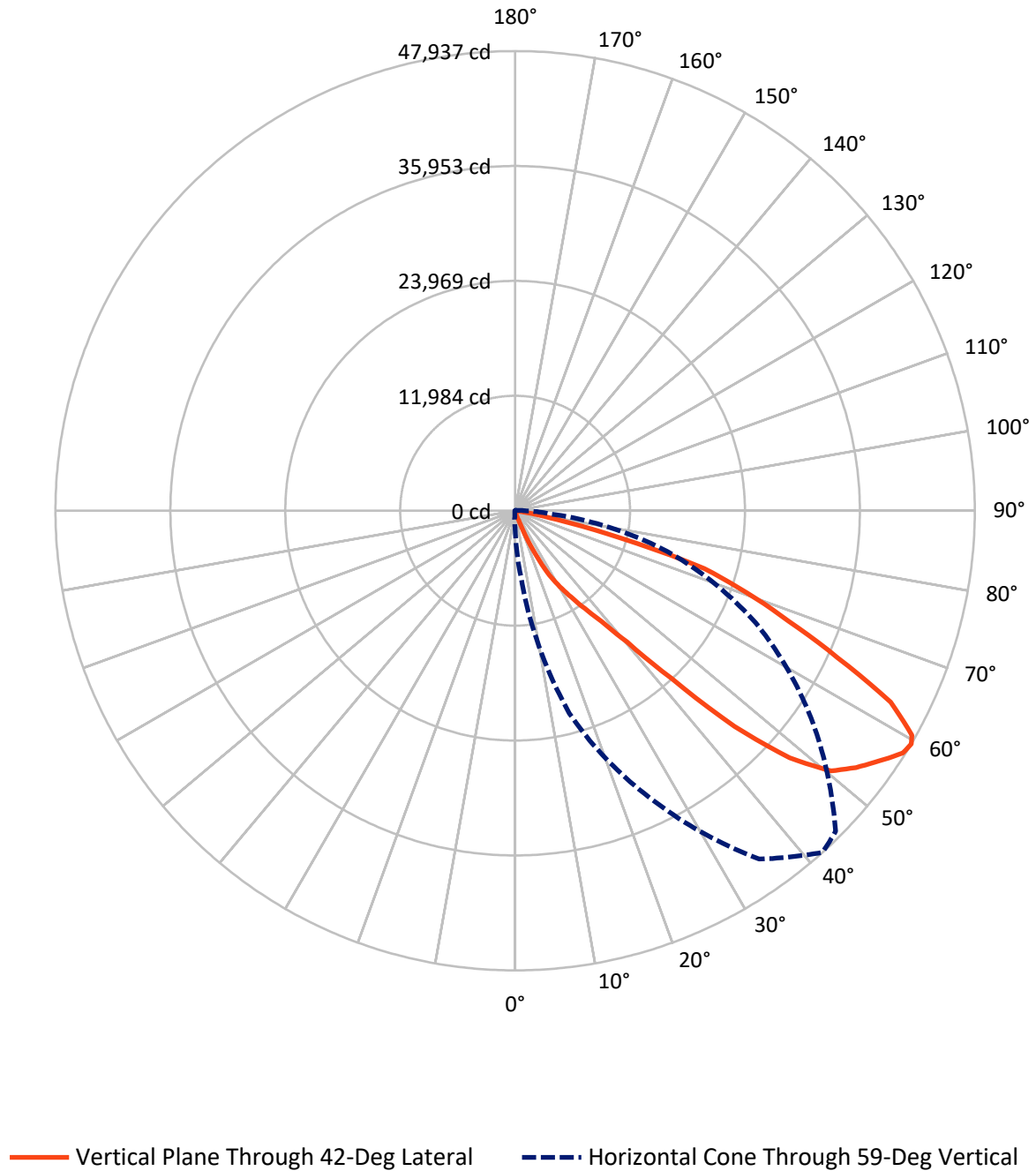


Based on 15 foot mounting height. Maximum calculated value = 51.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	84.2	0.0	84.2
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	17387.3	0.0	17387.3
	% Fixture	99.5	0.0	99.5
Total	Lumens	17471.5	0.0	17471.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.1	0.0
10°-20°	25.5	0.1
20°-30°	325.9	1.9
30°-40°	1098.7	6.3
40°-50°	3318.6	19.0
50°-60°	5858.2	33.5
60°-70°	5158.3	29.5
70°-80°	1641.9	9.4
80°-90°	39.3	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°	17471.5	100.0
0°-180°	17471.5	100.0



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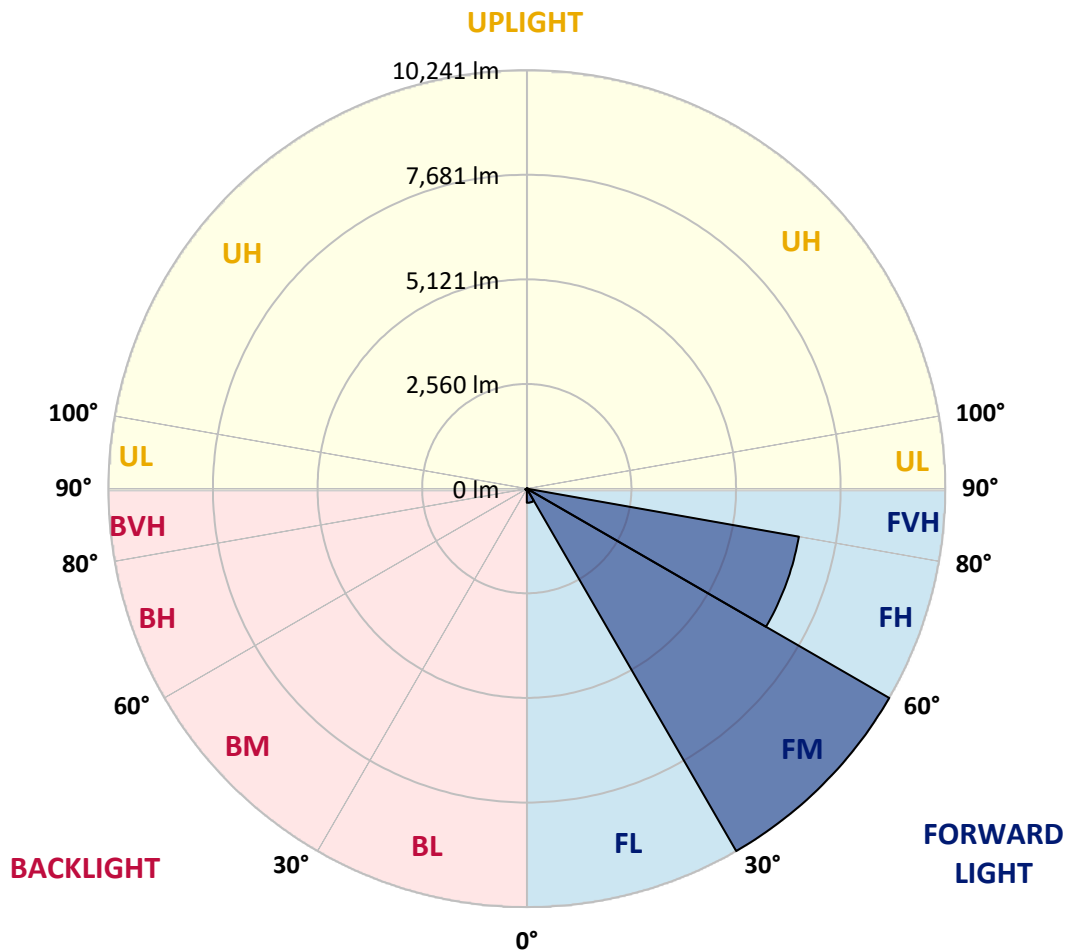
CATALOG NUMBER: NAV-SA5B-730-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	347.1	2.0			
FM	(30°-60°)	10241.2	58.6			
FH	(60°-80°)	6761.6	38.7			G3/7500
FVH	(80°-90°)	37.4	0.2			G1/100
BL	(0°-30°)	9.4	0.1	B0/110		
BM	(30°-60°)	34.4	0.2	B0/220		
BH	(60°-80°)	38.5	0.2	B0/110		G0/110
BVH	(80°-90°)	1.9	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°	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
2.5°	76.7	76.7	71.2	65.7	60.3	54.8	54.8	54.8	49.3	49.3	43.8
5°	87.6	87.6	82.2	76.7	76.7	71.2	71.2	65.7	60.3	60.3	54.8
7.5°	93.1	93.1	93.1	93.1	87.6	87.6	87.6	82.2	76.7	71.2	65.7
10°	98.6	104.1	109.6	109.6	109.6	109.6	109.6	104.1	93.1	87.6	76.7
12.5°	109.6	115.0	126.0	136.9	136.9	142.4	136.9	131.5	120.5	104.1	87.6
15°	120.5	131.5	147.9	169.8	191.7	197.2	197.2	180.8	158.9	126.0	104.1
17.5°	136.9	153.4	197.2	268.4	345.1	405.4	405.4	361.5	252.0	164.3	120.5
20°	147.9	180.8	317.7	646.4	986.0	1238.0	1188.7	1051.8	564.2	257.5	131.5
22.5°	164.3	230.1	673.8	1698.1	2629.4	3089.5	2980.0	2262.4	1265.4	460.1	158.9
25°	186.2	334.2	1336.6	3182.7	4886.3	5384.8	5313.6	4223.5	2306.2	772.4	202.7
27.5°	230.1	493.0	2141.9	4826.0	7208.9	7636.2	7608.8	6184.5	3686.6	1243.5	262.9
30°	290.3	717.6	3177.2	6557.0	8748.2	9181.0	9044.0	7619.8	4973.9	1900.8	339.6
32.5°	361.5	1002.5	4113.9	7833.4	10167.0	10736.7	10572.3	8868.7	6009.3	2459.6	504.0
35°	471.1	1281.8	5039.7	8961.8	11804.9	12528.0	12254.1	10156.0	6902.2	3089.5	608.0
37.5°	525.9	1446.2	5888.7	10188.9	13645.4	14631.5	14423.3	11783.0	7811.5	3894.8	745.0
40°	531.4	1643.4	6770.7	11788.4	16247.4	18005.9	17633.4	14576.7	9504.2	4930.1	958.6
42.5°	547.8	1939.2	7915.6	14516.4	21358.3	23883.6	23461.8	19715.0	13344.2	7006.2	1358.5
45°	624.5	2497.9	10249.1	19616.4	28375.5	32078.6	31591.0	26874.6	18707.0	10912.0	2317.2
47.5°	892.9	3757.8	14341.1	25121.6	35551.6	38504.1	38383.6	32516.8	23565.9	14916.3	3927.7
50°	1435.2	5768.2	18997.3	29750.5	40120.1	42656.4	42355.1	34872.3	26337.7	17649.8	5034.2
52.5°	1917.3	7691.0	21922.5	31454.1	41484.1	44507.9	44140.9	35732.3	27066.3	18455.0	5341.0
55°	2037.8	8386.7	22793.5	31980.0	42388.0	46074.6	45543.2	36307.5	27159.4	17879.9	4831.5
57.5°	1977.5	7729.3	22229.3	32494.9	43647.9	47685.1	46978.5	37430.5	27471.7	16904.8	4020.8
59°	1873.4	6918.6	21878.7	32905.7	44343.6	47937.1	47274.3	37677.0	27679.8	16461.1	3527.8
60°	1752.9	6370.8	21604.8	33174.1	44299.8	47542.7	46857.9	37561.9	27762.0	16077.6	3292.2
62.5°	1353.0	5083.5	21210.4	32982.4	41533.4	43943.7	43554.8	34746.3	26556.8	14850.6	2596.5
65°	1051.8	3889.3	19764.3	29416.3	35343.4	36964.9	36844.3	29421.8	22349.8	12801.8	1873.4
67.5°	832.6	2837.6	16713.1	23823.4	28435.8	30742.0	30654.3	23883.6	16965.0	9783.5	1347.6
70°	679.3	2021.3	11459.8	17962.0	22744.2	25647.5	25521.5	19221.9	12571.8	6206.5	980.5
72.5°	575.2	1292.8	6951.5	13541.4	18980.9	20640.7	20273.7	15507.9	9142.6	3379.9	777.9
75°	487.5	794.3	3445.6	8441.4	11306.4	11295.4	10928.4	8211.4	4908.2	1654.3	619.0
77.5°	394.4	558.7	1353.0	2317.2	3566.1	4415.2	4344.0	2908.8	1468.1	482.1	383.5
80°	257.5	262.9	361.5	635.4	980.5	1084.6	1232.5	887.4	427.3	230.1	158.9
82.5°	115.0	126.0	164.3	208.2	208.2	191.7	169.8	126.0	93.1	76.7	38.3
85°	27.4	38.3	27.4	32.9	27.4	21.9	21.9	11.0	0.0	0.0	0.0
87.5°	5.5	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°	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
2.5°	43.8	43.8	43.8	38.3	38.3	38.3	32.9	32.9	32.9	27.4	27.4
5°	54.8	49.3	43.8	43.8	38.3	38.3	32.9	27.4	27.4	27.4	21.9
7.5°	60.3	54.8	49.3	43.8	38.3	32.9	32.9	27.4	21.9	21.9	21.9
10°	71.2	65.7	54.8	43.8	38.3	32.9	27.4	27.4	21.9	16.4	16.4
12.5°	82.2	71.2	60.3	49.3	38.3	32.9	27.4	27.4	21.9	16.4	11.0
15°	93.1	82.2	65.7	49.3	38.3	32.9	27.4	27.4	16.4	11.0	5.5
17.5°	104.1	87.6	65.7	54.8	38.3	32.9	27.4	21.9	11.0	5.5	0.0
20°	109.6	93.1	71.2	54.8	38.3	32.9	27.4	16.4	5.5	0.0	0.0
22.5°	120.5	104.1	76.7	54.8	38.3	27.4	16.4	5.5	0.0	0.0	0.0
25°	142.4	109.6	76.7	54.8	38.3	27.4	11.0	0.0	0.0	0.0	0.0
27.5°	158.9	120.5	76.7	54.8	38.3	21.9	5.5	0.0	0.0	0.0	0.0
30°	186.2	131.5	82.2	54.8	38.3	16.4	5.5	0.0	0.0	0.0	0.0
32.5°	230.1	142.4	82.2	54.8	32.9	16.4	0.0	0.0	0.0	0.0	0.0
35°	279.4	164.3	82.2	54.8	32.9	16.4	0.0	0.0	0.0	0.0	0.0
37.5°	284.9	175.3	82.2	54.8	32.9	11.0	0.0	0.0	0.0	0.0	0.0
40°	295.8	164.3	87.6	54.8	32.9	11.0	0.0	0.0	0.0	0.0	0.0
42.5°	339.6	153.4	93.1	54.8	32.9	11.0	0.0	0.0	0.0	0.0	0.0
45°	504.0	158.9	93.1	60.3	32.9	16.4	0.0	0.0	0.0	0.0	0.0
47.5°	876.5	164.3	87.6	60.3	32.9	16.4	0.0	0.0	0.0	0.0	0.0
50°	1123.0	191.7	87.6	65.7	38.3	11.0	0.0	0.0	0.0	0.0	0.0
52.5°	1194.2	224.6	87.6	71.2	49.3	5.5	0.0	0.0	0.0	0.0	0.0
55°	1161.3	262.9	93.1	76.7	60.3	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	1073.7	284.9	98.6	82.2	65.7	0.0	0.0	0.0	0.0	0.0	0.0
59°	980.5	301.3	115.0	87.6	65.7	0.0	0.0	0.0	0.0	0.0	0.0
60°	903.9	317.7	120.5	93.1	65.7	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	728.6	339.6	131.5	109.6	54.8	0.0	0.0	0.0	0.0	0.0	0.0
65°	635.4	356.1	136.9	120.5	49.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	580.7	367.0	147.9	126.0	43.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	536.8	361.5	158.9	120.5	38.3	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	487.5	345.1	191.7	109.6	32.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	438.2	312.2	208.2	98.6	21.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	317.7	262.9	191.7	87.6	11.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	136.9	142.4	136.9	65.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	27.4	32.9	27.4	16.4	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°	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
2.5°	27.4	27.4	27.4	27.4	32.9	32.9	43.8	54.8	65.7	71.2	71.2
5°	21.9	21.9	21.9	21.9	21.9	27.4	32.9	43.8	60.3	65.7	65.7
7.5°	16.4	16.4	16.4	16.4	16.4	16.4	27.4	38.3	54.8	60.3	65.7
10°	16.4	11.0	11.0	5.5	5.5	11.0	16.4	32.9	49.3	54.8	60.3
12.5°	11.0	5.5	5.5	0.0	0.0	5.5	11.0	27.4	43.8	49.3	54.8
15°	5.5	0.0	0.0	0.0	0.0	0.0	5.5	21.9	38.3	43.8	54.8
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.4	32.9	43.8	49.3
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	27.4	38.3	43.8
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	21.9	32.9	38.3
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.4	21.9	27.4
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	16.4	21.9
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	16.4	21.9
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	11.0	16.4
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	11.0	16.4
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	11.0	11.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	11.0
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	11.0
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	11.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	11.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	11.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	5.5
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	5.5
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	5.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	11.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	11.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	5.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	5.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	5.5
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°	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
2.5°	76.7	76.7	71.2	65.7	65.7	65.7	71.2	76.7	76.7	76.7
5°	71.2	71.2	65.7	65.7	65.7	65.7	71.2	82.2	87.6	87.6
7.5°	71.2	71.2	65.7	65.7	65.7	65.7	71.2	82.2	87.6	93.1
10°	65.7	65.7	65.7	65.7	60.3	65.7	71.2	82.2	98.6	98.6
12.5°	65.7	65.7	65.7	65.7	60.3	65.7	76.7	87.6	104.1	109.6
15°	65.7	65.7	65.7	60.3	60.3	65.7	76.7	93.1	109.6	120.5
17.5°	60.3	65.7	65.7	60.3	60.3	65.7	76.7	93.1	120.5	136.9
20°	54.8	60.3	65.7	60.3	60.3	60.3	76.7	93.1	126.0	147.9
22.5°	49.3	54.8	60.3	60.3	54.8	60.3	76.7	98.6	136.9	164.3
25°	43.8	49.3	49.3	54.8	54.8	60.3	76.7	98.6	142.4	186.2
27.5°	32.9	38.3	43.8	49.3	49.3	60.3	76.7	104.1	153.4	230.1
30°	27.4	32.9	38.3	43.8	49.3	60.3	76.7	104.1	164.3	290.3
32.5°	27.4	32.9	38.3	43.8	49.3	54.8	76.7	109.6	180.8	361.5
35°	21.9	27.4	32.9	43.8	43.8	54.8	76.7	109.6	197.2	471.1
37.5°	21.9	27.4	32.9	43.8	43.8	54.8	76.7	109.6	241.0	525.9
40°	16.4	21.9	27.4	43.8	43.8	54.8	82.2	115.0	246.5	531.4
42.5°	16.4	21.9	27.4	38.3	43.8	54.8	82.2	115.0	230.1	547.8
45°	16.4	21.9	27.4	43.8	49.3	60.3	82.2	120.5	224.6	624.5
47.5°	16.4	21.9	27.4	43.8	54.8	60.3	82.2	120.5	230.1	892.9
50°	16.4	21.9	27.4	43.8	60.3	60.3	82.2	120.5	252.0	1435.2
52.5°	11.0	16.4	21.9	38.3	49.3	65.7	87.6	115.0	268.4	1917.3
55°	11.0	11.0	16.4	32.9	43.8	71.2	93.1	115.0	312.2	2037.8
57.5°	11.0	11.0	16.4	27.4	38.3	76.7	98.6	115.0	361.5	1977.5
59°	11.0	11.0	11.0	21.9	32.9	76.7	104.1	126.0	372.5	1752.9
60°	11.0	11.0	11.0	21.9	32.9	76.7	104.1	126.0	372.5	1752.9
62.5°	5.5	5.5	5.5	21.9	27.4	76.7	115.0	153.4	383.5	1353.0
65°	11.0	11.0	5.5	16.4	27.4	65.7	131.5	164.3	388.9	1051.8
67.5°	11.0	11.0	11.0	21.9	27.4	65.7	136.9	169.8	388.9	832.6
70°	11.0	11.0	11.0	21.9	32.9	65.7	136.9	175.3	383.5	679.3
72.5°	11.0	11.0	11.0	21.9	32.9	60.3	126.0	180.8	367.0	575.2
75°	11.0	11.0	11.0	16.4	27.4	54.8	120.5	197.2	334.2	487.5
77.5°	11.0	11.0	11.0	11.0	21.9	43.8	109.6	219.1	295.8	394.4
80°	16.4	11.0	11.0	11.0	16.4	38.3	104.1	213.6	246.5	257.5
82.5°	16.4	11.0	11.0	5.5	11.0	27.4	82.2	164.3	126.0	115.0
85°	11.0	11.0	11.0	5.5	5.5	16.4	38.3	49.3	38.3	27.4
87.5°	11.0	11.0	11.0	5.5	5.5	5.5	5.5	5.5	5.5	5.5
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

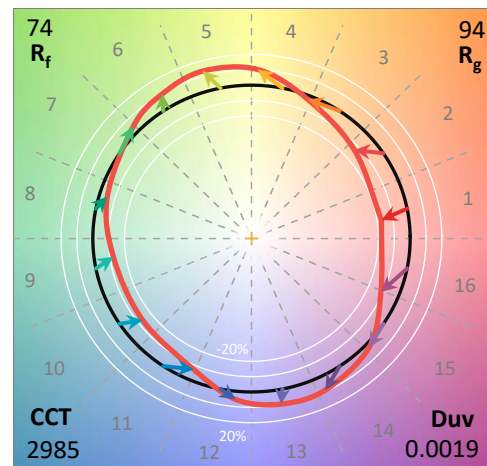
Test Information

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
 CIE u' : 0.2504
 CIE v' : 0.5243
 Duv: 0.0019
 CIE x: 0.4408
 CIE y: 0.4101
 CIE z: 0.1491
 Peak Wavelength (nm): 595
 Dominant Wavelength (nm): 582
 Purity: 55.41818
 R_f: 73.8
 R_g: 94.4

CRI (Ra): 70.8
 R1: 66.3
 R2: 80.6
 R3: 94.5
 R4: 68.2
 R5: 66.5
 R6: 74.7
 R7: 76.2
 R8: 39.6
 R9: -43.2
 R10: 57.6
 R11: 64.8
 R12: 53.5
 R13: 68.7
 R14: 97.0
 R15: 56.4



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

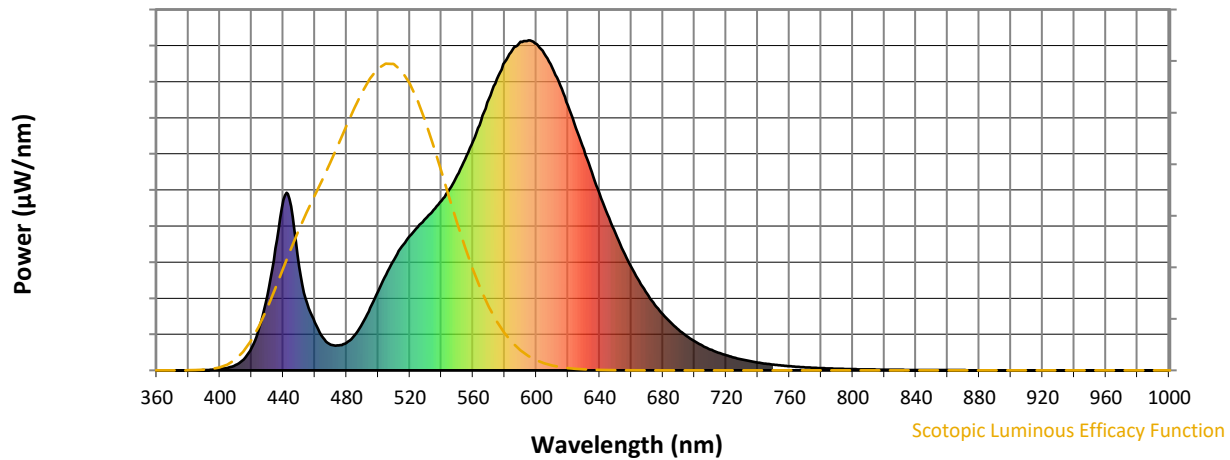


Photopic Lumens: NR

λ (nm)	Power 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



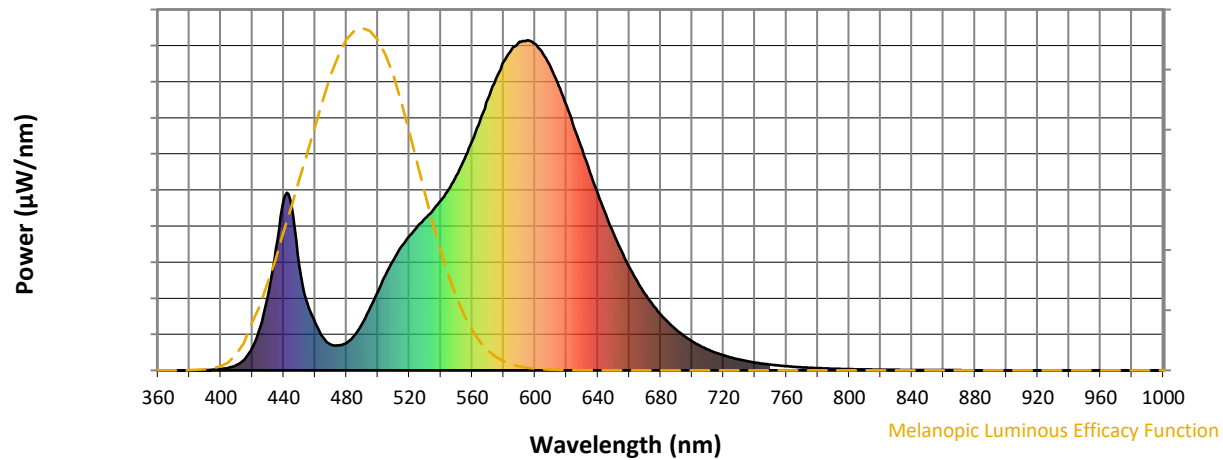
Scotopic Lumens: NR

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

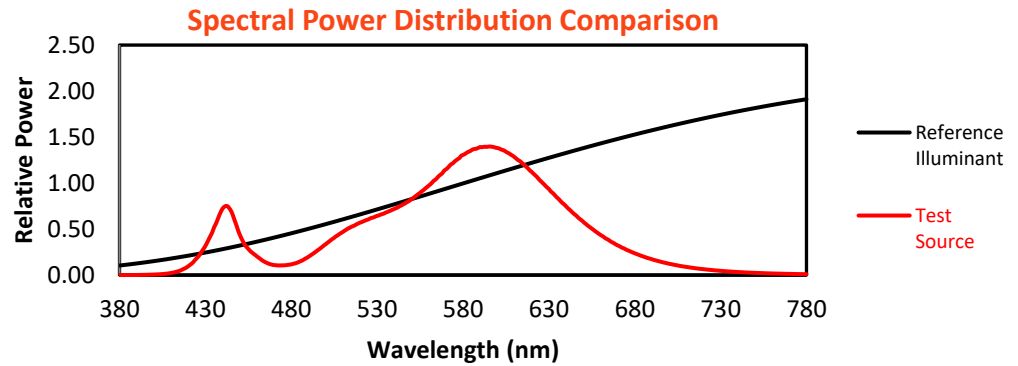
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	142	NR	620	803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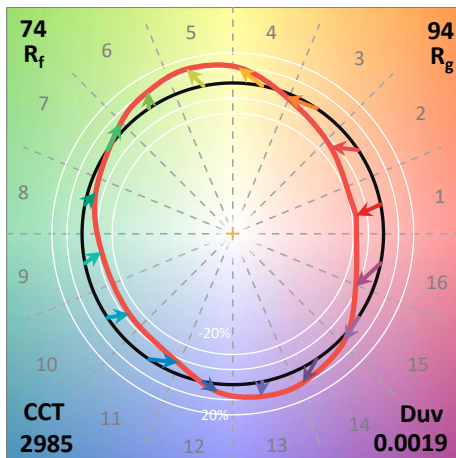
TM-30-18

Summary

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

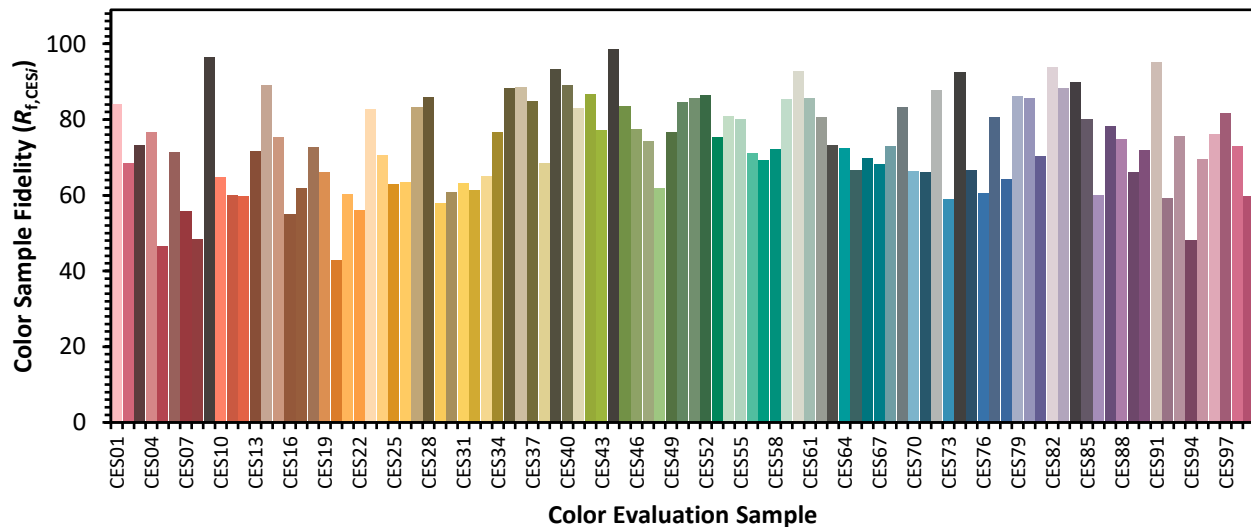


Color Vector Graphics

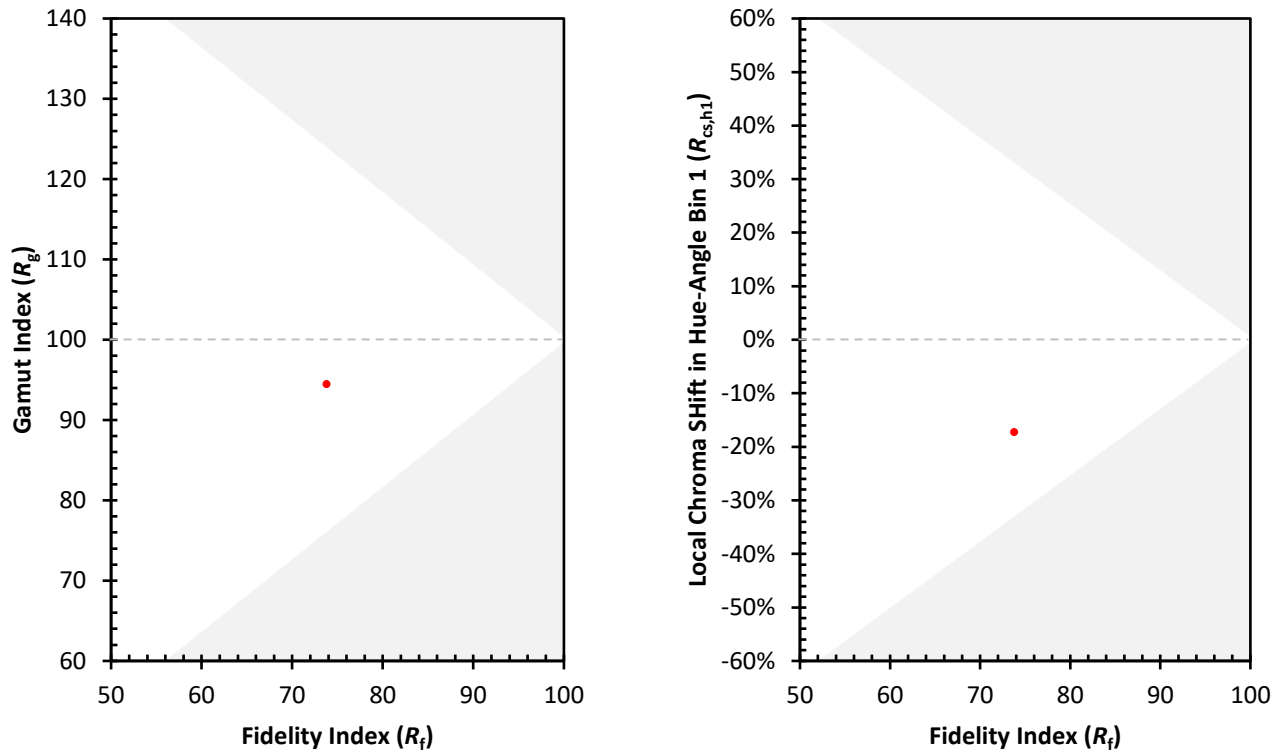


Individual Sample Fidelity Index ($R_{f,i}$)

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)