

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: P1067948

Luminaire Tested: **NAV-SA2D-730-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067948
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA2D-730-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 1200mA 2xLight Square PACKAGE
70CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (28) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9656.9 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 107
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



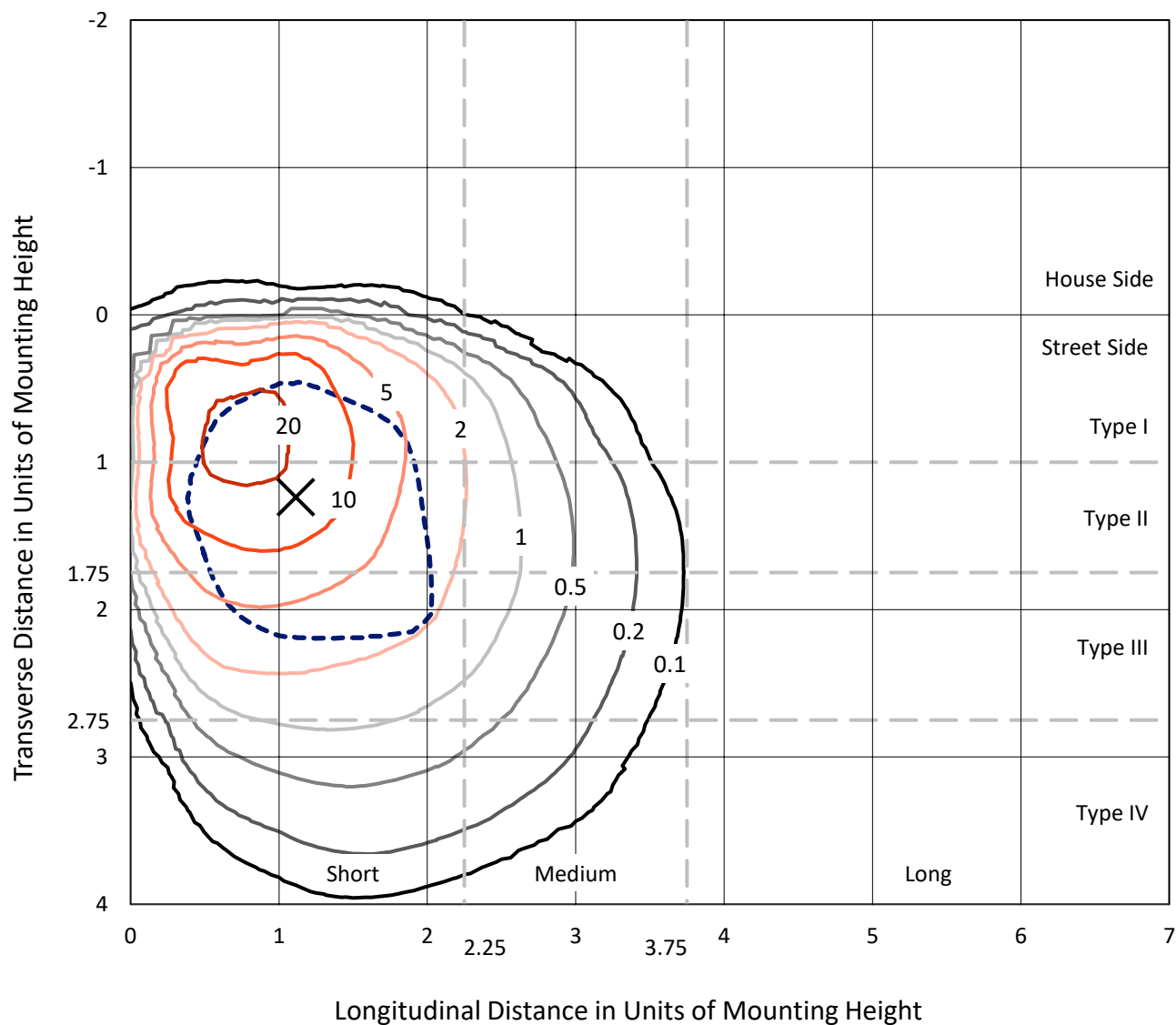
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

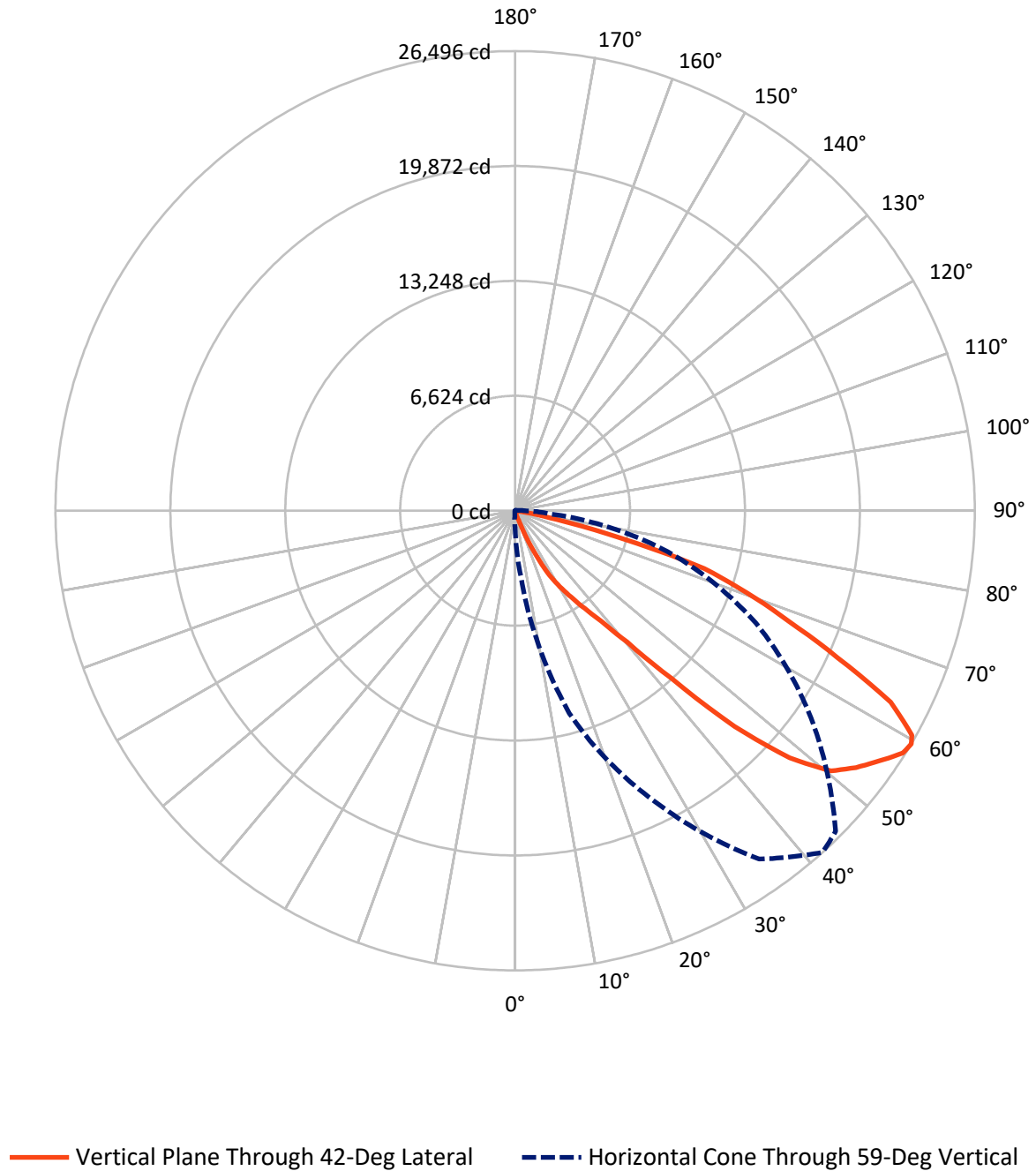


Based on 15 foot mounting height. Maximum calculated value = 28.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	46.5	0.0	46.5
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	9610.4	0.0	9610.4
	% Fixture	99.5	0.0	99.5
Total	Lumens	9656.9	0.0	9656.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.8	0.0
10°-20°	14.1	0.1
20°-30°	180.1	1.9
30°-40°	607.3	6.3
40°-50°	1834.3	19.0
50°-60°	3238.0	33.5
60°-70°	2851.1	29.5
70°-80°	907.5	9.4
80°-90°	21.7	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°	9656.9	100.0
0°-180°	9656.9	100.0



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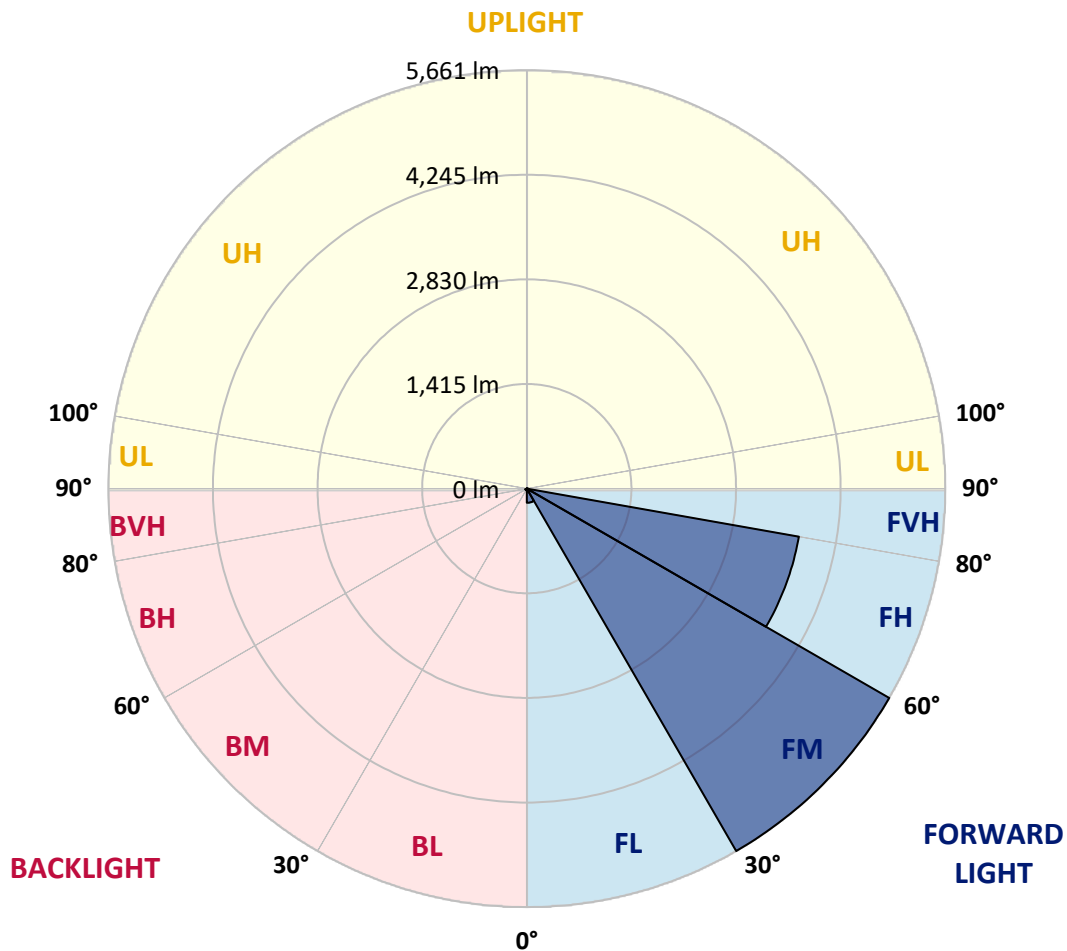
CATALOG NUMBER: NAV-SA2D-730-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	191.8	2.0			
FM	(30°-60°)	5660.6	58.6			
FH	(60°-80°)	3737.3	38.7			G2/5000
FVH	(80°-90°)	20.7	0.2			G1/100
BL	(0°-30°)	5.2	0.1	B0/110		
BM	(30°-60°)	19.0	0.2	B0/220		
BH	(60°-80°)	21.3	0.2	B0/110		G0/110
BVH	(80°-90°)	1.0	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2
2.5°	42.4	42.4	39.4	36.3	33.3	30.3	30.3	30.3	27.2	27.2	24.2
5°	48.4	48.4	45.4	42.4	42.4	39.4	39.4	36.3	33.3	33.3	30.3
7.5°	51.5	51.5	51.5	51.5	48.4	48.4	48.4	45.4	42.4	39.4	36.3
10°	54.5	57.5	60.6	60.6	60.6	60.6	60.6	57.5	51.5	48.4	42.4
12.5°	60.6	63.6	69.6	75.7	75.7	78.7	75.7	72.7	66.6	57.5	48.4
15°	66.6	72.7	81.7	93.9	106.0	109.0	109.0	99.9	87.8	69.6	57.5
17.5°	75.7	84.8	109.0	148.4	190.7	224.1	224.1	199.8	139.3	90.8	66.6
20°	81.7	99.9	175.6	357.3	545.0	684.3	657.0	581.3	311.9	142.3	72.7
22.5°	90.8	127.2	372.4	938.6	1453.3	1707.7	1647.1	1250.5	699.4	254.3	87.8
25°	102.9	184.7	738.8	1759.1	2700.8	2976.3	2936.9	2334.4	1274.7	426.9	112.0
27.5°	127.2	272.5	1183.9	2667.5	3984.5	4220.7	4205.6	3418.3	2037.7	687.3	145.3
30°	160.5	396.6	1756.1	3624.2	4835.3	5074.5	4998.8	4211.6	2749.2	1050.6	187.7
32.5°	199.8	554.1	2273.8	4329.7	5619.5	5934.4	5843.6	4901.9	3321.5	1359.5	278.6
35°	260.4	708.5	2785.5	4953.4	6524.8	6924.5	6773.1	5613.5	3815.0	1707.7	336.1
37.5°	290.7	799.3	3254.8	5631.6	7542.2	8087.2	7972.1	6512.7	4317.6	2152.7	411.8
40°	293.7	908.3	3742.3	6515.7	8980.3	9952.3	9746.4	8056.9	5253.2	2725.0	529.9
42.5°	302.8	1071.8	4375.1	8023.6	11805.2	13201.0	12967.9	10896.9	7375.6	3872.5	750.9
45°	345.2	1380.7	5664.9	10842.4	15683.8	17730.6	17461.1	14854.2	10339.8	6031.3	1280.7
47.5°	493.5	2077.0	7926.7	13885.3	19650.2	21282.1	21215.5	17972.8	13025.4	8244.6	2170.9
50°	793.3	3188.2	10500.3	16443.8	22175.3	23577.2	23410.7	19274.7	14557.5	9755.5	2782.5
52.5°	1059.7	4251.0	12117.1	17385.4	22929.2	24600.6	24397.7	19750.1	14960.2	10200.5	2952.1
55°	1126.3	4635.5	12598.5	17676.1	23428.8	25466.5	25172.8	20068.0	15011.6	9882.6	2670.5
57.5°	1093.0	4272.2	12286.7	17960.7	24125.2	26356.7	25966.1	20688.7	15184.2	9343.7	2222.4
59°	1035.5	3824.1	12092.9	18187.8	24509.7	26496.0	26129.6	20825.0	15299.3	9098.4	1949.9
60°	968.9	3521.3	11941.5	18336.1	24485.5	26278.0	25899.5	20761.4	15344.7	8886.5	1819.7
62.5°	747.9	2809.8	11723.5	18230.2	22956.5	24288.7	24073.7	19205.1	14678.6	8208.3	1435.2
65°	581.3	2149.7	10924.2	16259.1	19535.1	20431.3	20364.7	16262.1	12353.3	7075.9	1035.5
67.5°	460.2	1568.4	9237.7	13167.7	15717.1	16991.8	16943.4	13201.0	9377.0	5407.6	744.8
70°	375.4	1117.2	6334.1	9928.0	12571.3	14176.0	14106.3	10624.4	6948.7	3430.5	542.0
72.5°	317.9	714.6	3842.2	7484.6	10491.2	11408.6	11205.8	8571.6	5053.3	1868.1	429.9
75°	269.5	439.0	1904.5	4665.8	6249.3	6243.2	6040.4	4538.6	2712.9	914.4	342.1
77.5°	218.0	308.8	747.9	1280.7	1971.1	2440.4	2401.0	1607.7	811.4	266.4	211.9
80°	142.3	145.3	199.8	351.2	542.0	599.5	681.2	490.5	236.2	127.2	87.8
82.5°	63.6	69.6	90.8	115.1	115.1	106.0	93.9	69.6	51.5	42.4	21.2
85°	15.1	21.2	15.1	18.2	15.1	12.1	12.1	6.1	0.0	0.0	0.0
87.5°	3.0	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°	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2
2.5°	24.2	24.2	24.2	21.2	21.2	21.2	18.2	18.2	18.2	15.1	15.1
5°	30.3	27.2	24.2	24.2	21.2	21.2	18.2	15.1	15.1	15.1	12.1
7.5°	33.3	30.3	27.2	24.2	21.2	18.2	18.2	15.1	12.1	12.1	12.1
10°	39.4	36.3	30.3	24.2	21.2	18.2	15.1	15.1	12.1	9.1	9.1
12.5°	45.4	39.4	33.3	27.2	21.2	18.2	15.1	15.1	12.1	9.1	6.1
15°	51.5	45.4	36.3	27.2	21.2	18.2	15.1	15.1	9.1	6.1	3.0
17.5°	57.5	48.4	36.3	30.3	21.2	18.2	15.1	12.1	6.1	3.0	0.0
20°	60.6	51.5	39.4	30.3	21.2	18.2	15.1	9.1	3.0	0.0	0.0
22.5°	66.6	57.5	42.4	30.3	21.2	15.1	9.1	3.0	0.0	0.0	0.0
25°	78.7	60.6	42.4	30.3	21.2	15.1	6.1	0.0	0.0	0.0	0.0
27.5°	87.8	66.6	42.4	30.3	21.2	12.1	3.0	0.0	0.0	0.0	0.0
30°	102.9	72.7	45.4	30.3	21.2	9.1	3.0	0.0	0.0	0.0	0.0
32.5°	127.2	78.7	45.4	30.3	18.2	9.1	0.0	0.0	0.0	0.0	0.0
35°	154.4	90.8	45.4	30.3	18.2	9.1	0.0	0.0	0.0	0.0	0.0
37.5°	157.4	96.9	45.4	30.3	18.2	6.1	0.0	0.0	0.0	0.0	0.0
40°	163.5	90.8	48.4	30.3	18.2	6.1	0.0	0.0	0.0	0.0	0.0
42.5°	187.7	84.8	51.5	30.3	18.2	6.1	0.0	0.0	0.0	0.0	0.0
45°	278.6	87.8	51.5	33.3	18.2	9.1	0.0	0.0	0.0	0.0	0.0
47.5°	484.4	90.8	48.4	33.3	18.2	9.1	0.0	0.0	0.0	0.0	0.0
50°	620.7	106.0	48.4	36.3	21.2	6.1	0.0	0.0	0.0	0.0	0.0
52.5°	660.1	124.1	48.4	39.4	27.2	3.0	0.0	0.0	0.0	0.0	0.0
55°	641.9	145.3	51.5	42.4	33.3	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	593.4	157.4	54.5	45.4	36.3	0.0	0.0	0.0	0.0	0.0	0.0
59°	542.0	166.5	63.6	48.4	36.3	0.0	0.0	0.0	0.0	0.0	0.0
60°	499.6	175.6	66.6	51.5	36.3	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	402.7	187.7	72.7	60.6	30.3	0.0	0.0	0.0	0.0	0.0	0.0
65°	351.2	196.8	75.7	66.6	27.2	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	320.9	202.9	81.7	69.6	24.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	296.7	199.8	87.8	66.6	21.2	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	269.5	190.7	106.0	60.6	18.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	242.2	172.6	115.1	54.5	12.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	175.6	145.3	106.0	48.4	6.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	75.7	78.7	75.7	36.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	15.1	18.2	15.1	9.1	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°	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2
2.5°	15.1	15.1	15.1	15.1	18.2	18.2	24.2	30.3	36.3	39.4	39.4
5°	12.1	12.1	12.1	12.1	12.1	15.1	18.2	24.2	33.3	36.3	36.3
7.5°	9.1	9.1	9.1	9.1	9.1	9.1	15.1	21.2	30.3	33.3	36.3
10°	9.1	6.1	6.1	3.0	3.0	6.1	9.1	18.2	27.2	30.3	33.3
12.5°	6.1	3.0	3.0	0.0	0.0	3.0	6.1	15.1	24.2	27.2	30.3
15°	3.0	0.0	0.0	0.0	0.0	0.0	3.0	12.1	21.2	24.2	30.3
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.1	18.2	24.2	27.2
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	15.1	21.2	24.2
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	12.1	18.2	21.2
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.1	12.1	15.1
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	9.1	12.1
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	9.1	12.1
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.1	9.1
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.1	9.1
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.1	6.1
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.1
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.1
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.1
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.1
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.1
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0
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°	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2
2.5°	42.4	42.4	39.4	36.3	36.3	36.3	39.4	42.4	42.4	42.4
5°	39.4	39.4	36.3	36.3	36.3	36.3	39.4	45.4	48.4	48.4
7.5°	39.4	39.4	36.3	36.3	36.3	36.3	39.4	45.4	48.4	51.5
10°	36.3	36.3	36.3	36.3	33.3	36.3	39.4	45.4	54.5	54.5
12.5°	36.3	36.3	36.3	36.3	33.3	36.3	42.4	48.4	57.5	60.6
15°	36.3	36.3	36.3	33.3	33.3	36.3	42.4	51.5	60.6	66.6
17.5°	33.3	36.3	36.3	33.3	33.3	36.3	42.4	51.5	66.6	75.7
20°	30.3	33.3	36.3	33.3	33.3	33.3	42.4	51.5	69.6	81.7
22.5°	27.2	30.3	33.3	33.3	30.3	33.3	42.4	54.5	75.7	90.8
25°	24.2	27.2	27.2	30.3	30.3	33.3	42.4	54.5	78.7	102.9
27.5°	18.2	21.2	24.2	27.2	27.2	33.3	42.4	57.5	84.8	127.2
30°	15.1	18.2	21.2	24.2	27.2	33.3	42.4	57.5	90.8	160.5
32.5°	15.1	18.2	21.2	24.2	27.2	30.3	42.4	60.6	99.9	199.8
35°	12.1	15.1	18.2	24.2	24.2	30.3	42.4	60.6	109.0	260.4
37.5°	12.1	15.1	18.2	24.2	24.2	30.3	42.4	60.6	133.2	290.7
40°	9.1	12.1	15.1	24.2	24.2	30.3	45.4	63.6	136.2	293.7
42.5°	9.1	12.1	15.1	21.2	24.2	30.3	45.4	63.6	127.2	302.8
45°	9.1	12.1	15.1	24.2	27.2	33.3	45.4	66.6	124.1	345.2
47.5°	9.1	12.1	15.1	24.2	30.3	33.3	45.4	66.6	127.2	493.5
50°	9.1	12.1	15.1	24.2	33.3	33.3	45.4	66.6	139.3	793.3
52.5°	6.1	9.1	12.1	21.2	27.2	36.3	48.4	63.6	148.4	1059.7
55°	6.1	6.1	9.1	18.2	24.2	39.4	51.5	63.6	172.6	1126.3
57.5°	6.1	6.1	9.1	15.1	21.2	42.4	54.5	63.6	199.8	1093.0
59°	6.1	6.1	6.1	15.1	18.2	42.4	54.5	66.6	202.9	1035.5
60°	6.1	6.1	6.1	12.1	18.2	42.4	57.5	69.6	205.9	968.9
62.5°	3.0	3.0	3.0	12.1	15.1	42.4	63.6	84.8	211.9	747.9
65°	6.1	6.1	3.0	9.1	15.1	36.3	72.7	90.8	215.0	581.3
67.5°	6.1	6.1	6.1	12.1	15.1	36.3	75.7	93.9	215.0	460.2
70°	6.1	6.1	6.1	12.1	18.2	36.3	75.7	96.9	211.9	375.4
72.5°	6.1	6.1	6.1	12.1	18.2	33.3	69.6	99.9	202.9	317.9
75°	6.1	6.1	6.1	9.1	15.1	30.3	66.6	109.0	184.7	269.5
77.5°	6.1	6.1	6.1	6.1	12.1	24.2	60.6	121.1	163.5	218.0
80°	9.1	6.1	6.1	6.1	9.1	21.2	57.5	118.1	136.2	142.3
82.5°	9.1	6.1	6.1	3.0	6.1	15.1	45.4	90.8	69.6	63.6
85°	6.1	6.1	6.1	3.0	3.0	9.1	21.2	27.2	21.2	15.1
87.5°	6.1	6.1	6.1	3.0	3.0	3.0	3.0	3.0	3.0	3.0
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

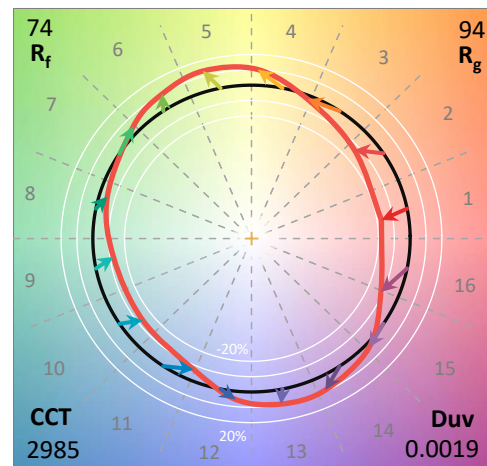
Data in this report applies to families of products including GSS-SB1A-730-U-5WQ

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

REPORT NUMBER: SP1-2407-184-4

Photopic Flux vs. Wavelength

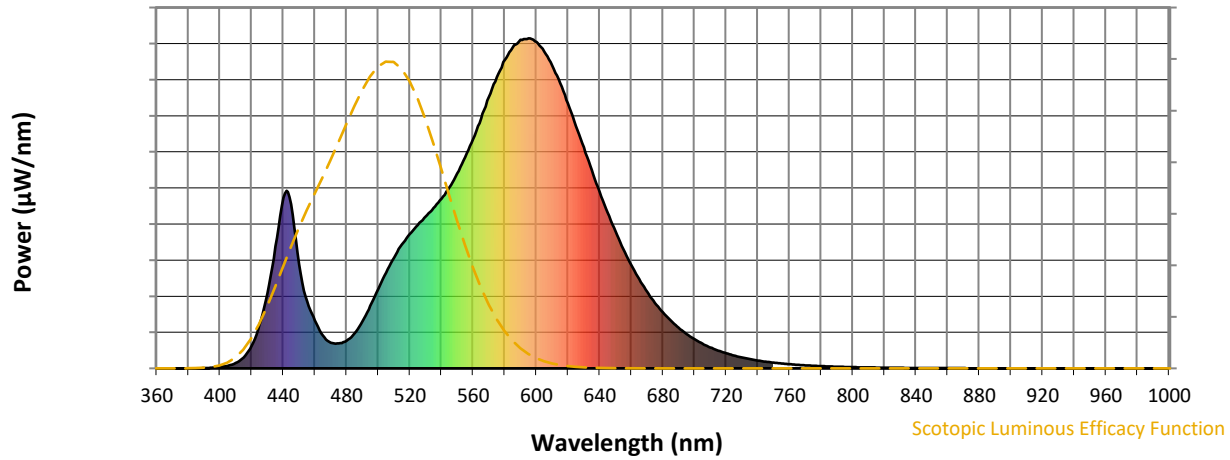


Photopic Lumens: NR

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



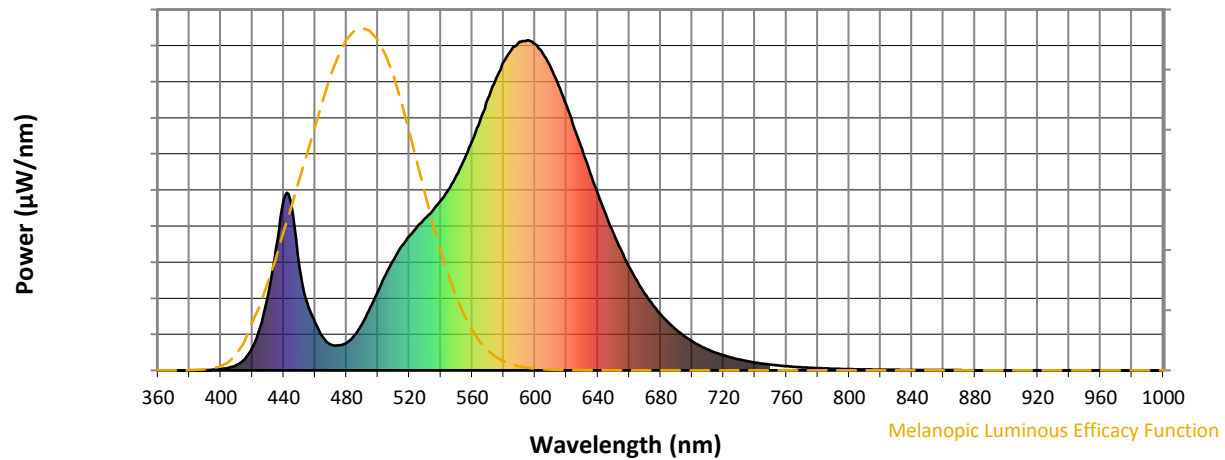
Scotopic Lumens: NR

S/P: 1.19

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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

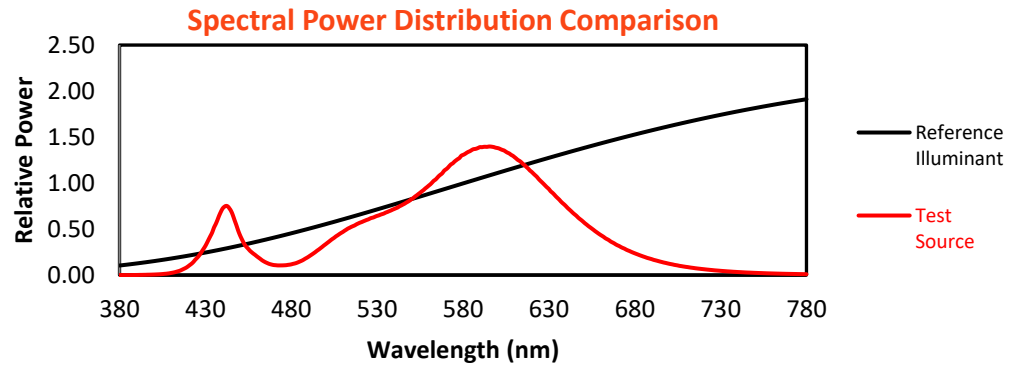
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	142	NR	620	803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

REPORT NUMBER: SP1-2407-184-4

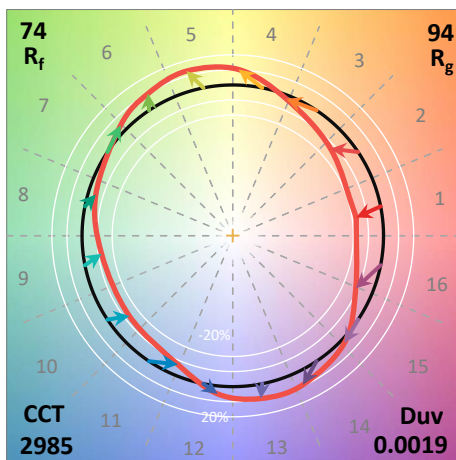
TM-30-18

Summary

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

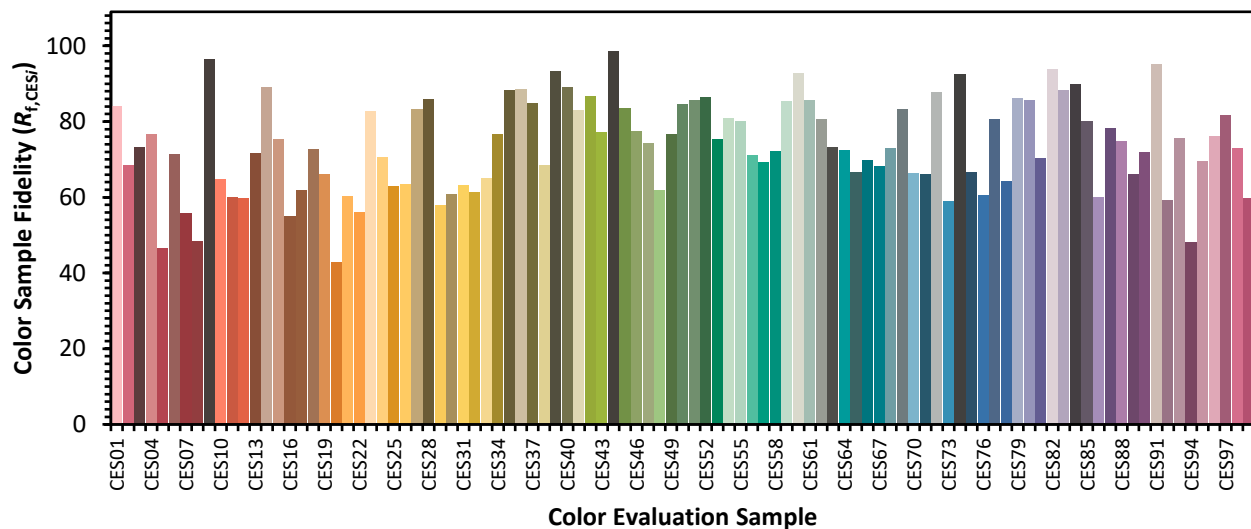


Color Vector Graphics

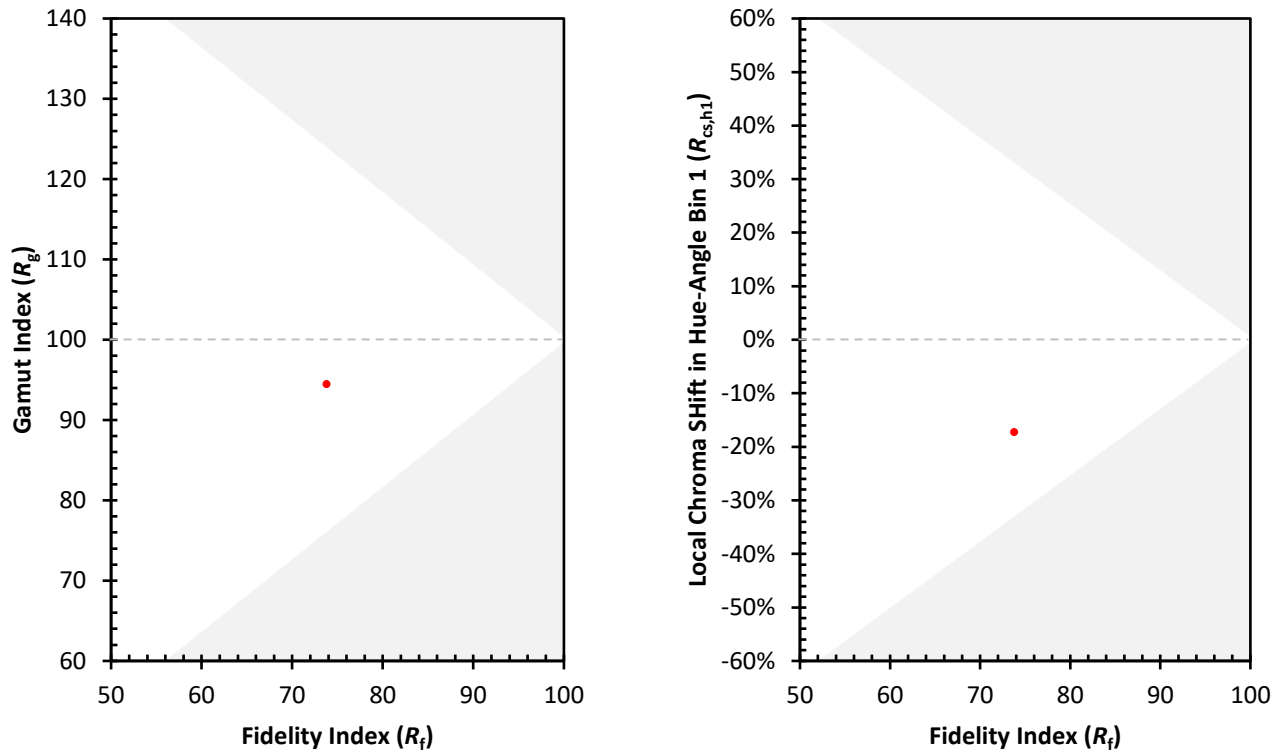


Individual Sample Fidelity Index ($R_{f,i}$)

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)