

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: P1067947

Luminaire Tested: **NAV-SA2C-730-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067947
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA2C-730-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 1050mA 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: 8794.9 lumens
Efficiency: N/A
Efficacy: 91.4 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): 96.2
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



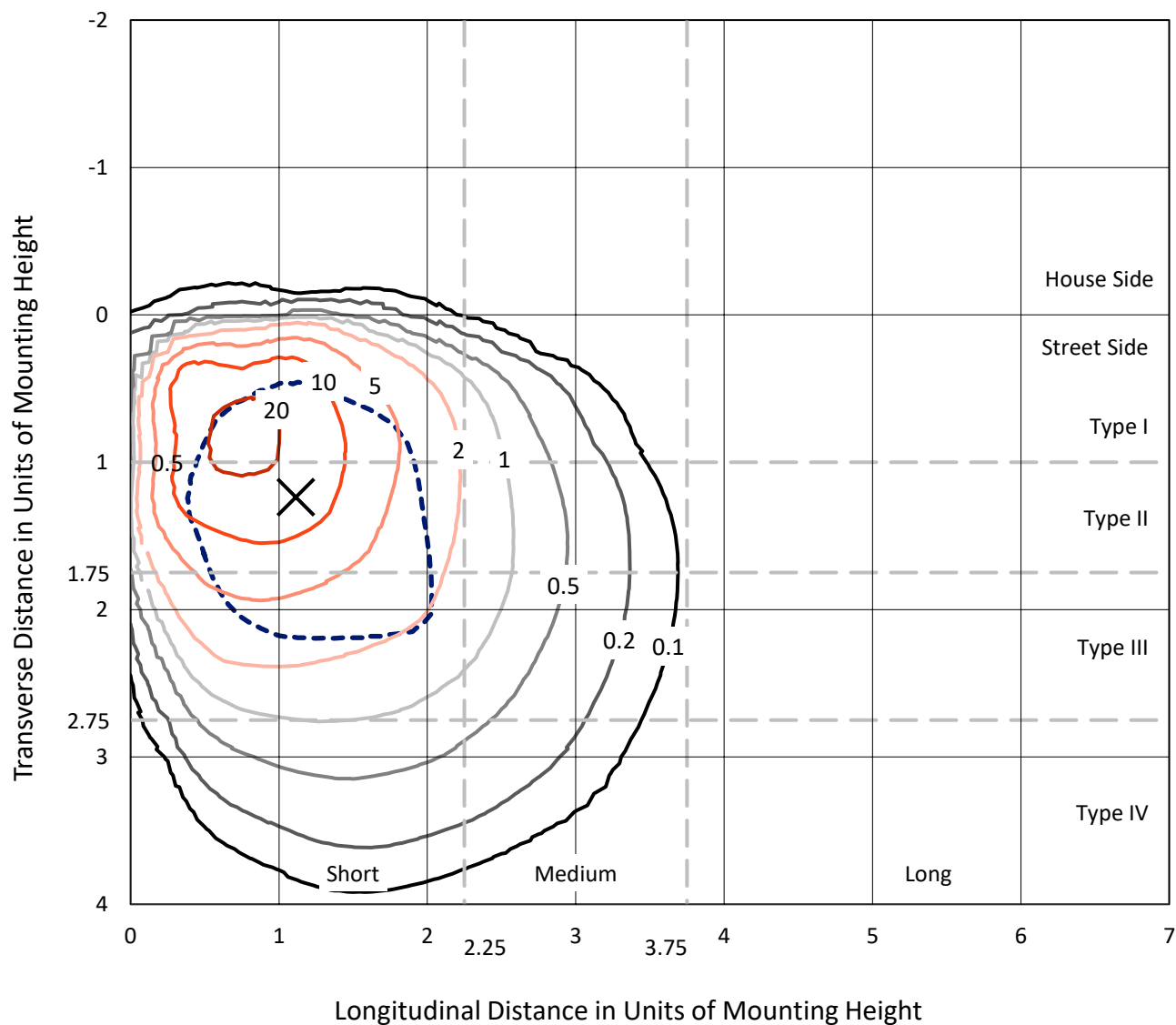
REPORT NUMBER: P1067947

CATALOG NUMBER: NAV-SA2C-730-U-LBC

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

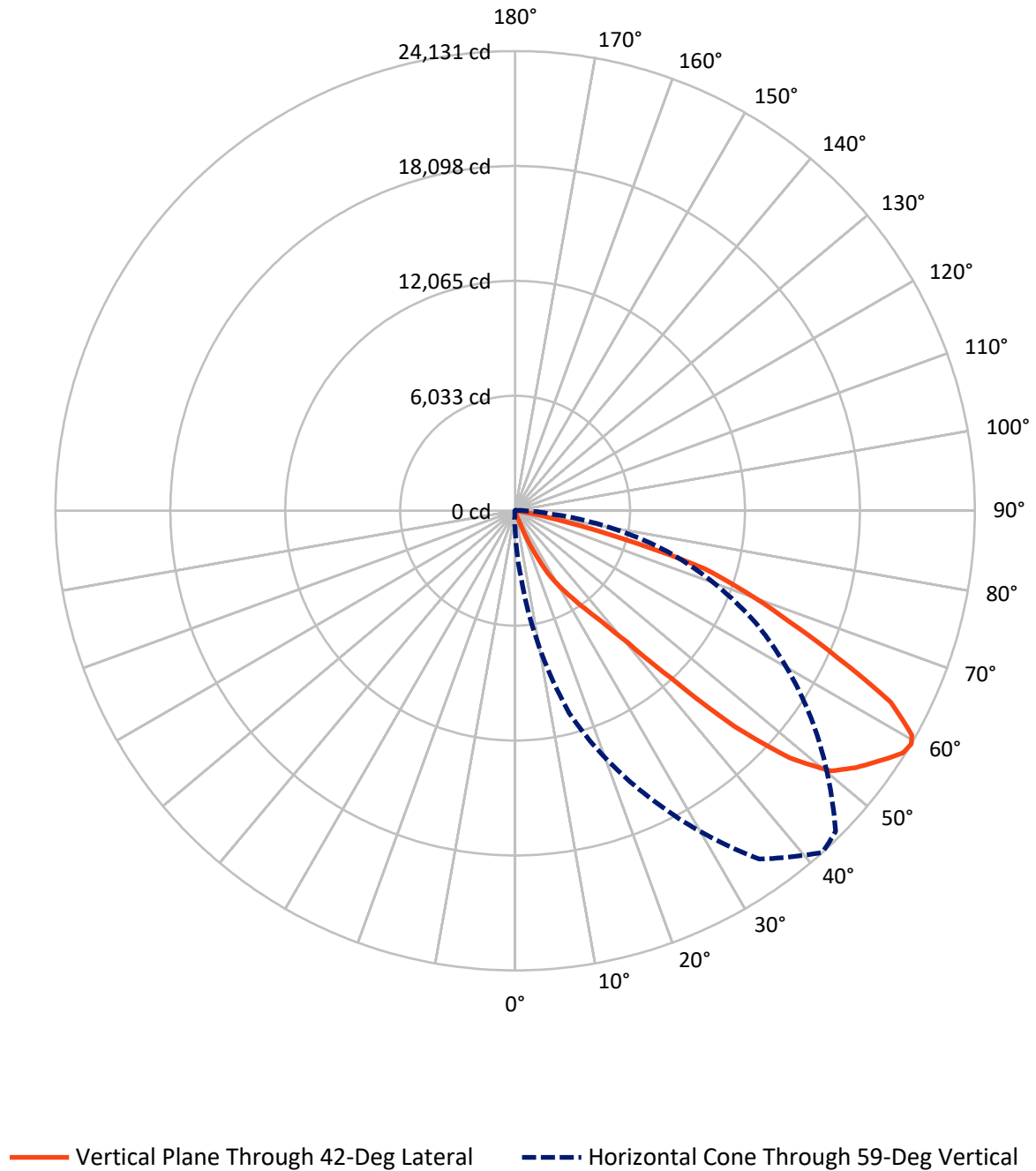


Based on 15 foot mounting height. Maximum calculated value = 26.1 fc
 Type III - Short - N/A

REPORT NUMBER: P1067947

CATALOG NUMBER: NAV-SA2C-730-U-LBC

Luminous Intensity Polar Plot



REPORT NUMBER: P1067947

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	42.4	0.0	42.4
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	8752.5	0.0	8752.5
	% Fixture	99.5	0.0	99.5
Total	Lumens	8794.9	0.0	8794.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.6	0.0
10°-20°	12.8	0.1
20°-30°	164.0	1.9
30°-40°	553.1	6.3
40°-50°	1670.6	19.0
50°-60°	2948.9	33.5
60°-70°	2596.6	29.5
70°-80°	826.5	9.4
80°-90°	19.8	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°	8794.9	100.0
0°-180°	8794.9	100.0



REPORT NUMBER: P1067947

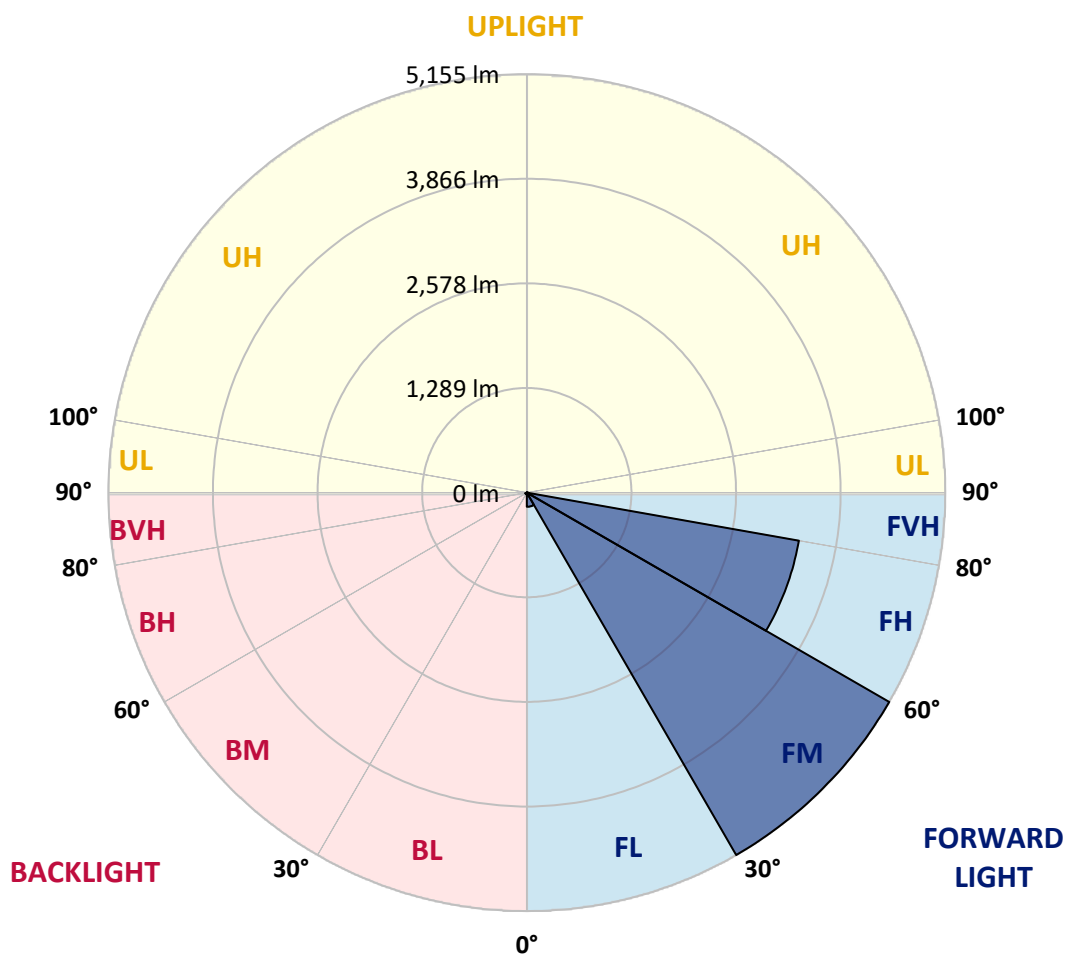
CATALOG NUMBER: NAV-SA2C-730-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	174.7	2.0			
FM	(30°-60°)	5155.3	58.6			
FH	(60°-80°)	3403.7	38.7			G2/5000
FVH	(80°-90°)	18.8	0.2			G1/100
BL	(0°-30°)	4.7	0.1	B0/110		
BM	(30°-60°)	17.3	0.2	B0/220		
BH	(60°-80°)	19.4	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





REPORT NUMBER: P1067947

CATALOG NUMBER: NAV-SA2C-730-U-LBC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8
2.5°	38.6	38.6	35.8	33.1	30.3	27.6	27.6	27.6	24.8	24.8	22.1
5°	44.1	44.1	41.4	38.6	38.6	35.8	35.8	33.1	30.3	30.3	27.6
7.5°	46.9	46.9	46.9	46.9	44.1	44.1	44.1	41.4	38.6	35.8	33.1
10°	49.6	52.4	55.1	55.1	55.1	55.1	55.1	52.4	46.9	44.1	38.6
12.5°	55.1	57.9	63.4	68.9	68.9	71.7	68.9	66.2	60.7	52.4	44.1
15°	60.7	66.2	74.5	85.5	96.5	99.3	99.3	91.0	80.0	63.4	52.4
17.5°	68.9	77.2	99.3	135.1	173.7	204.1	204.1	182.0	126.8	82.7	60.7
20°	74.5	91.0	159.9	325.4	496.3	623.2	598.4	529.4	284.0	129.6	66.2
22.5°	82.7	115.8	339.2	854.8	1323.6	1555.2	1500.1	1138.8	637.0	231.6	80.0
25°	93.8	168.2	672.8	1602.1	2459.7	2710.6	2674.8	2126.0	1160.9	388.8	102.0
27.5°	115.8	248.2	1078.2	2429.4	3628.9	3843.9	3830.2	3113.2	1855.8	626.0	132.4
30°	146.1	361.2	1599.3	3300.7	4403.7	4621.6	4552.6	3835.7	2503.8	956.9	171.0
32.5°	182.0	504.6	2070.9	3943.2	5117.9	5404.7	5322.0	4464.4	3025.0	1238.1	253.7
35°	237.1	645.3	2536.9	4511.3	5942.4	6306.4	6168.5	5112.4	3474.4	1555.2	306.1
37.5°	264.7	728.0	2964.3	5128.9	6868.9	7365.3	7260.5	5931.4	3932.2	1960.6	375.0
40°	267.5	827.2	3408.3	5934.1	8178.7	9063.9	8876.4	7337.7	4784.3	2481.7	482.6
42.5°	275.7	976.2	3984.6	7307.4	10751.5	12022.7	11810.3	9924.2	6717.3	3526.8	683.9
45°	314.4	1257.4	5159.3	9874.6	14283.8	16147.9	15902.5	13528.3	9416.8	5492.9	1166.4
47.5°	449.5	1891.6	7219.1	12645.9	17896.1	19382.4	19321.8	16368.5	11862.7	7508.7	1977.1
50°	722.5	2903.6	9563.0	14976.0	20195.9	21472.6	21320.9	17554.2	13258.0	8884.6	2534.1
52.5°	965.1	3871.5	11035.5	15833.5	20882.5	22404.6	22219.9	17987.1	13624.8	9290.0	2688.6
55°	1025.8	4221.7	11473.9	16098.3	21337.5	23193.3	22925.8	18276.7	13671.7	9000.5	2432.1
57.5°	995.5	3890.8	11189.9	16357.5	21971.7	24004.0	23648.3	18842.0	13828.8	8509.6	2024.0
59°	943.1	3482.7	11013.4	16564.3	22321.9	24130.8	23797.2	18966.0	13933.6	8286.3	1775.8
60°	882.4	3207.0	10875.6	16699.4	22299.9	23932.3	23587.6	18908.1	13975.0	8093.2	1657.3
62.5°	681.1	2559.0	10677.0	16602.9	20907.3	22120.6	21924.8	17490.8	13368.3	7475.6	1307.1
65°	529.4	1957.8	9949.0	14807.7	17791.4	18607.6	18546.9	14810.5	11250.6	6444.3	943.1
67.5°	419.1	1428.4	8413.1	11992.3	14314.2	15475.1	15430.9	12022.7	8540.0	4924.9	678.3
70°	341.9	1017.5	5768.7	9041.8	11449.1	12910.6	12847.2	9676.0	6328.4	3124.2	493.6
72.5°	289.5	650.8	3499.3	6816.5	9554.7	10390.2	10205.5	7806.5	4602.3	1701.4	391.6
75°	245.4	399.8	1734.5	4249.3	5691.5	5686.0	5501.2	4133.5	2470.7	832.8	311.6
77.5°	198.5	281.3	681.1	1166.4	1795.1	2222.5	2186.7	1464.2	739.0	242.7	193.0
80°	129.6	132.4	182.0	319.9	493.6	546.0	620.4	446.7	215.1	115.8	80.0
82.5°	57.9	63.4	82.7	104.8	104.8	96.5	85.5	63.4	46.9	38.6	19.3
85°	13.8	19.3	13.8	16.5	13.8	11.0	11.0	5.5	0.0	0.0	0.0
87.5°	2.8	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



REPORT NUMBER: P1067947

CATALOG NUMBER: NAV-SA2C-730-U-LBC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8
2.5°	22.1	22.1	22.1	19.3	19.3	19.3	16.5	16.5	16.5	13.8	13.8
5°	27.6	24.8	22.1	22.1	19.3	19.3	16.5	13.8	13.8	13.8	11.0
7.5°	30.3	27.6	24.8	22.1	19.3	16.5	16.5	13.8	11.0	11.0	11.0
10°	35.8	33.1	27.6	22.1	19.3	16.5	13.8	13.8	11.0	8.3	8.3
12.5°	41.4	35.8	30.3	24.8	19.3	16.5	13.8	13.8	11.0	8.3	5.5
15°	46.9	41.4	33.1	24.8	19.3	16.5	13.8	13.8	8.3	5.5	2.8
17.5°	52.4	44.1	33.1	27.6	19.3	16.5	13.8	11.0	5.5	2.8	0.0
20°	55.1	46.9	35.8	27.6	19.3	16.5	13.8	8.3	2.8	0.0	0.0
22.5°	60.7	52.4	38.6	27.6	19.3	13.8	8.3	2.8	0.0	0.0	0.0
25°	71.7	55.1	38.6	27.6	19.3	13.8	5.5	0.0	0.0	0.0	0.0
27.5°	80.0	60.7	38.6	27.6	19.3	11.0	2.8	0.0	0.0	0.0	0.0
30°	93.8	66.2	41.4	27.6	19.3	8.3	2.8	0.0	0.0	0.0	0.0
32.5°	115.8	71.7	41.4	27.6	16.5	8.3	0.0	0.0	0.0	0.0	0.0
35°	140.6	82.7	41.4	27.6	16.5	8.3	0.0	0.0	0.0	0.0	0.0
37.5°	143.4	88.2	41.4	27.6	16.5	5.5	0.0	0.0	0.0	0.0	0.0
40°	148.9	82.7	44.1	27.6	16.5	5.5	0.0	0.0	0.0	0.0	0.0
42.5°	171.0	77.2	46.9	27.6	16.5	5.5	0.0	0.0	0.0	0.0	0.0
45°	253.7	80.0	46.9	30.3	16.5	8.3	0.0	0.0	0.0	0.0	0.0
47.5°	441.2	82.7	44.1	30.3	16.5	8.3	0.0	0.0	0.0	0.0	0.0
50°	565.3	96.5	44.1	33.1	19.3	5.5	0.0	0.0	0.0	0.0	0.0
52.5°	601.1	113.1	44.1	35.8	24.8	2.8	0.0	0.0	0.0	0.0	0.0
55°	584.6	132.4	46.9	38.6	30.3	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	540.5	143.4	49.6	41.4	33.1	0.0	0.0	0.0	0.0	0.0	0.0
59°	493.6	151.7	57.9	44.1	33.1	0.0	0.0	0.0	0.0	0.0	0.0
60°	455.0	159.9	60.7	46.9	33.1	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	366.7	171.0	66.2	55.1	27.6	0.0	0.0	0.0	0.0	0.0	0.0
65°	319.9	179.2	68.9	60.7	24.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	292.3	184.8	74.5	63.4	22.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	270.2	182.0	80.0	60.7	19.3	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	245.4	173.7	96.5	55.1	16.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	220.6	157.2	104.8	49.6	11.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	159.9	132.4	96.5	44.1	5.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	68.9	71.7	68.9	33.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	13.8	16.5	13.8	8.3	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



REPORT NUMBER: P1067947

CATALOG NUMBER: NAV-SA2C-730-U-LBC

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8
2.5°	13.8	13.8	13.8	13.8	16.5	16.5	22.1	27.6	33.1	35.8	35.8
5°	11.0	11.0	11.0	11.0	11.0	13.8	16.5	22.1	30.3	33.1	33.1
7.5°	8.3	8.3	8.3	8.3	8.3	8.3	13.8	19.3	27.6	30.3	33.1
10°	8.3	5.5	5.5	2.8	2.8	5.5	8.3	16.5	24.8	27.6	30.3
12.5°	5.5	2.8	2.8	0.0	0.0	2.8	5.5	13.8	22.1	24.8	27.6
15°	2.8	0.0	0.0	0.0	0.0	0.0	2.8	11.0	19.3	22.1	27.6
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	16.5	22.1	24.8
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	13.8	19.3	22.1
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	11.0	16.5	19.3
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	11.0	13.8
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	8.3	11.0
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	8.3	11.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.5	8.3
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.5	8.3
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.5	5.5
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.5
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.5
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.5
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.5
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.5
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1067947

CATALOG NUMBER: NAV-SA2C-730-U-LBC

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	318°	325°	335°	345°	355°	360°
0°	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8
2.5°	38.6	38.6	35.8	33.1	33.1	33.1	35.8	38.6	38.6	38.6
5°	35.8	35.8	33.1	33.1	33.1	33.1	35.8	41.4	44.1	44.1
7.5°	35.8	35.8	33.1	33.1	33.1	33.1	35.8	41.4	44.1	46.9
10°	33.1	33.1	33.1	33.1	30.3	33.1	35.8	41.4	49.6	49.6
12.5°	33.1	33.1	33.1	33.1	30.3	33.1	38.6	44.1	52.4	55.1
15°	33.1	33.1	33.1	30.3	30.3	33.1	38.6	46.9	55.1	60.7
17.5°	30.3	33.1	33.1	30.3	30.3	33.1	38.6	46.9	60.7	68.9
20°	27.6	30.3	33.1	30.3	30.3	30.3	38.6	46.9	63.4	74.5
22.5°	24.8	27.6	30.3	30.3	27.6	30.3	38.6	49.6	68.9	82.7
25°	22.1	24.8	24.8	27.6	27.6	30.3	38.6	49.6	71.7	93.8
27.5°	16.5	19.3	22.1	24.8	24.8	30.3	38.6	52.4	77.2	115.8
30°	13.8	16.5	19.3	22.1	24.8	30.3	38.6	52.4	82.7	146.1
32.5°	13.8	16.5	19.3	22.1	24.8	27.6	38.6	55.1	91.0	182.0
35°	11.0	13.8	16.5	22.1	22.1	27.6	38.6	55.1	99.3	237.1
37.5°	11.0	13.8	16.5	22.1	22.1	27.6	38.6	55.1	121.3	264.7
40°	8.3	11.0	13.8	22.1	22.1	27.6	41.4	57.9	124.1	267.5
42.5°	8.3	11.0	13.8	19.3	22.1	27.6	41.4	57.9	115.8	275.7
45°	8.3	11.0	13.8	22.1	24.8	30.3	41.4	60.7	113.1	314.4
47.5°	8.3	11.0	13.8	22.1	27.6	30.3	41.4	60.7	115.8	449.5
50°	8.3	11.0	13.8	22.1	30.3	30.3	41.4	60.7	126.8	722.5
52.5°	5.5	8.3	11.0	19.3	24.8	33.1	44.1	57.9	135.1	965.1
55°	5.5	5.5	8.3	16.5	22.1	35.8	46.9	57.9	157.2	1025.8
57.5°	5.5	5.5	8.3	13.8	19.3	38.6	49.6	57.9	182.0	995.5
59°	5.5	5.5	5.5	13.8	16.5	38.6	49.6	60.7	184.8	943.1
60°	5.5	5.5	5.5	11.0	16.5	38.6	52.4	63.4	187.5	882.4
62.5°	2.8	2.8	2.8	11.0	13.8	38.6	57.9	77.2	193.0	681.1
65°	5.5	5.5	2.8	8.3	13.8	33.1	66.2	82.7	195.8	529.4
67.5°	5.5	5.5	5.5	11.0	13.8	33.1	68.9	85.5	195.8	419.1
70°	5.5	5.5	5.5	11.0	16.5	33.1	68.9	88.2	193.0	341.9
72.5°	5.5	5.5	5.5	11.0	16.5	30.3	63.4	91.0	184.8	289.5
75°	5.5	5.5	5.5	8.3	13.8	27.6	60.7	99.3	168.2	245.4
77.5°	5.5	5.5	5.5	5.5	11.0	22.1	55.1	110.3	148.9	198.5
80°	8.3	5.5	5.5	5.5	8.3	19.3	52.4	107.5	124.1	129.6
82.5°	8.3	5.5	5.5	2.8	5.5	13.8	41.4	82.7	63.4	57.9
85°	5.5	5.5	5.5	2.8	2.8	8.3	19.3	24.8	19.3	13.8
87.5°	5.5	5.5	5.5	2.8	2.8	2.8	2.8	2.8	2.8	2.8
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

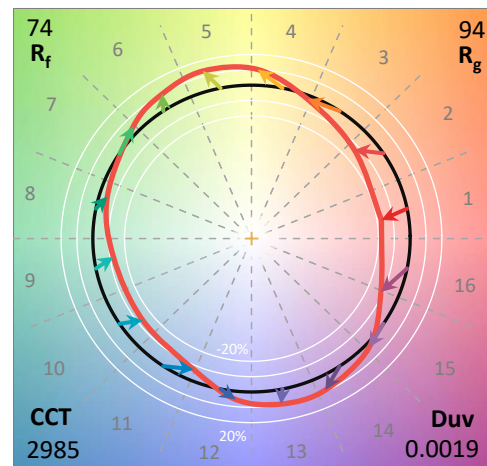
Data in this report applies to families of products including GSS-SB1A-730-U-5WQ

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

REPORT NUMBER: SP1-2407-184-4

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

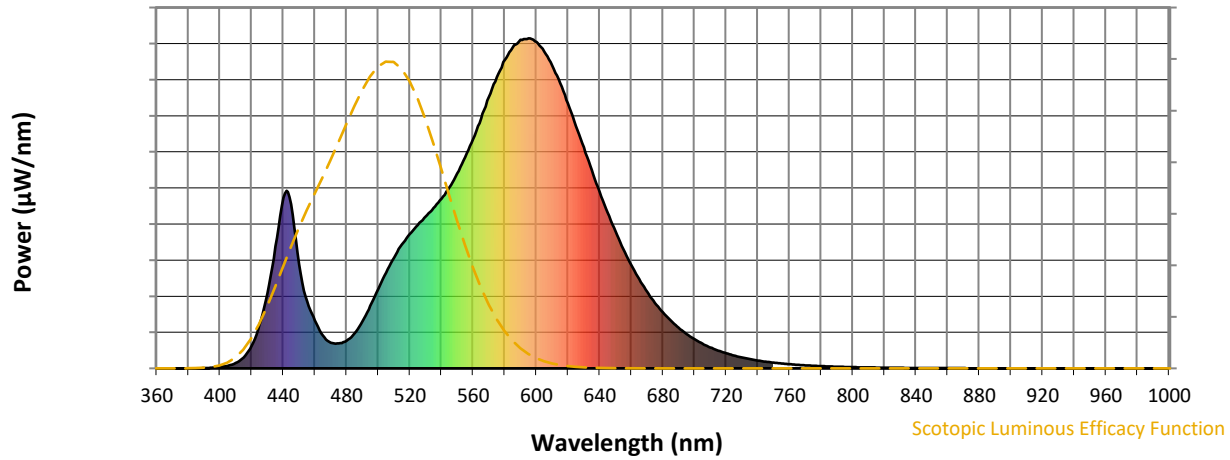


Photopic Lumens: NR

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



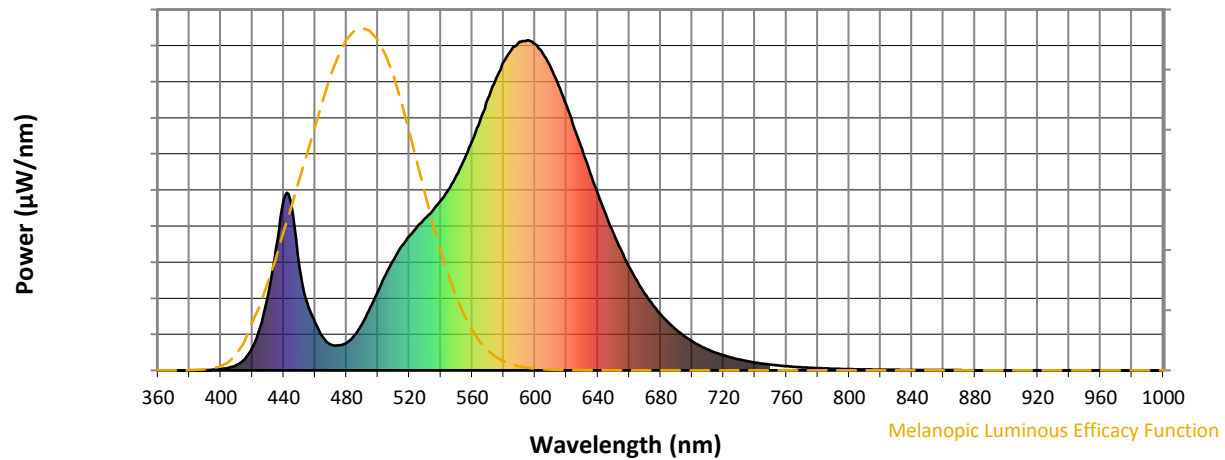
Scotopic Lumens: NR

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			

REPORT NUMBER: SP1-2407-184-4

Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.13

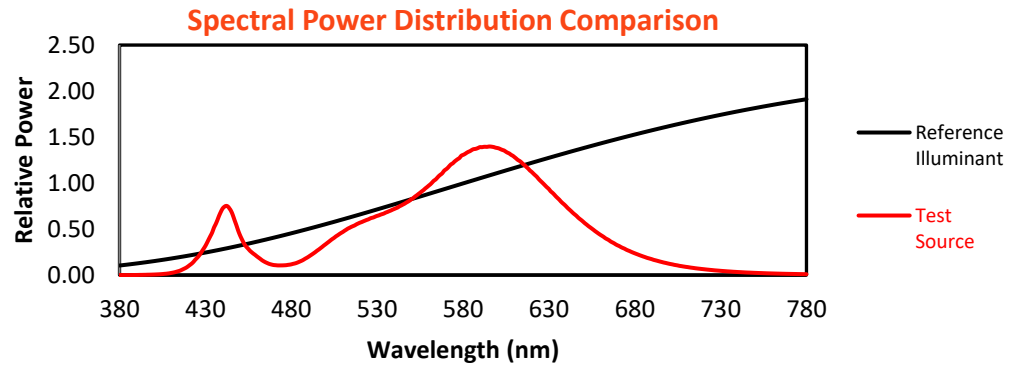
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	142	NR	620	803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

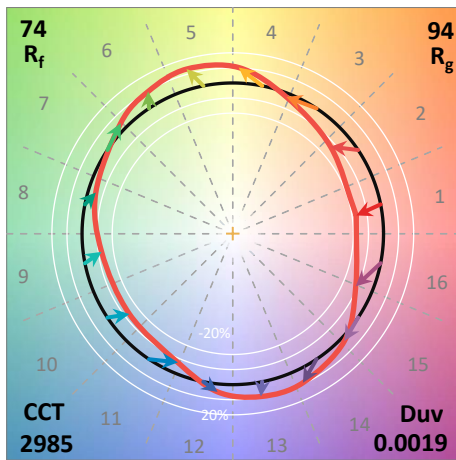
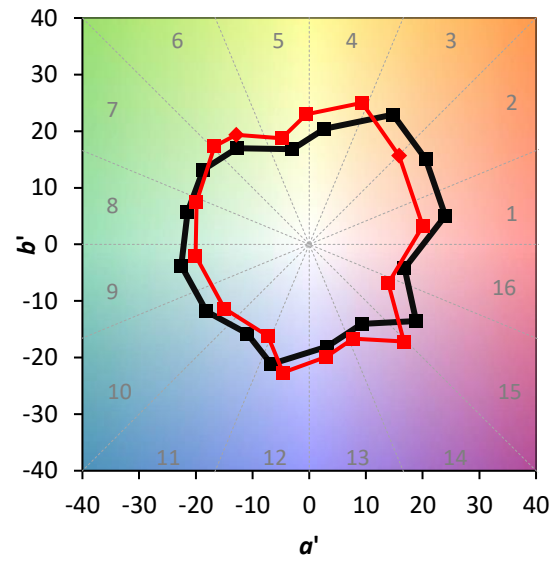
TM-30-18

Summary

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

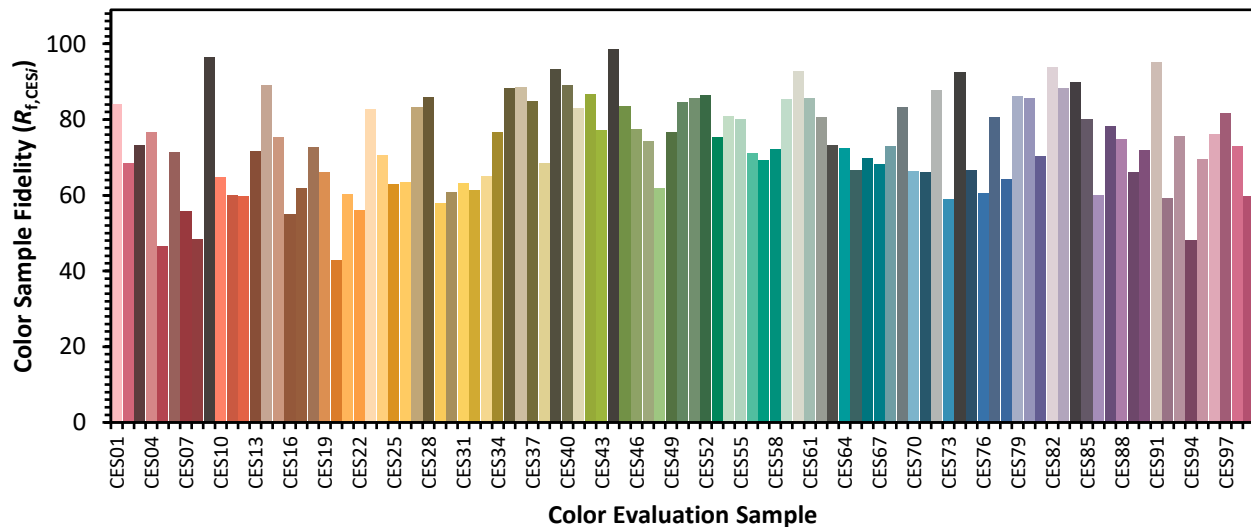


Color Vector Graphics



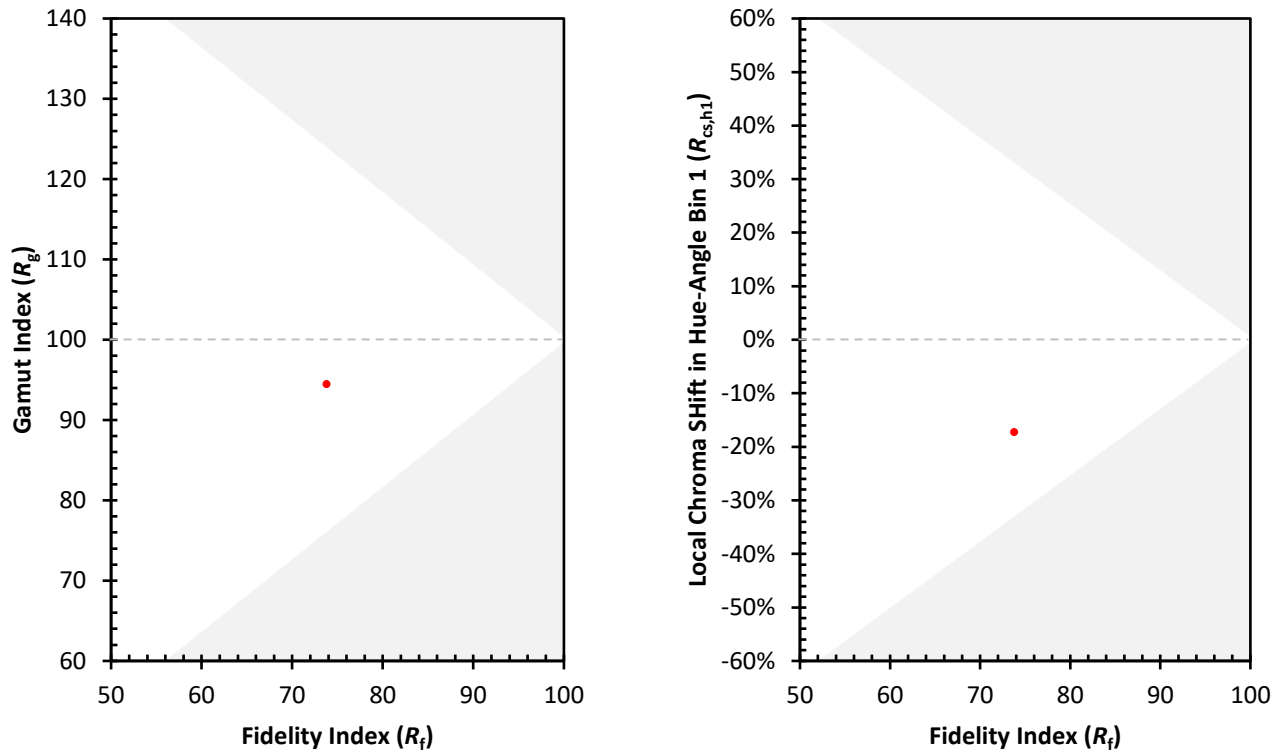
Individual Sample Fidelity Index ($R_{f,i}$)

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)