

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: P1067955

Luminaire Tested: **NAV-SA4C-730-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067955
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA4C-730-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 1050mA 4xLight Square PACKAGE
70CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (56) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17289.1 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 190.4
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



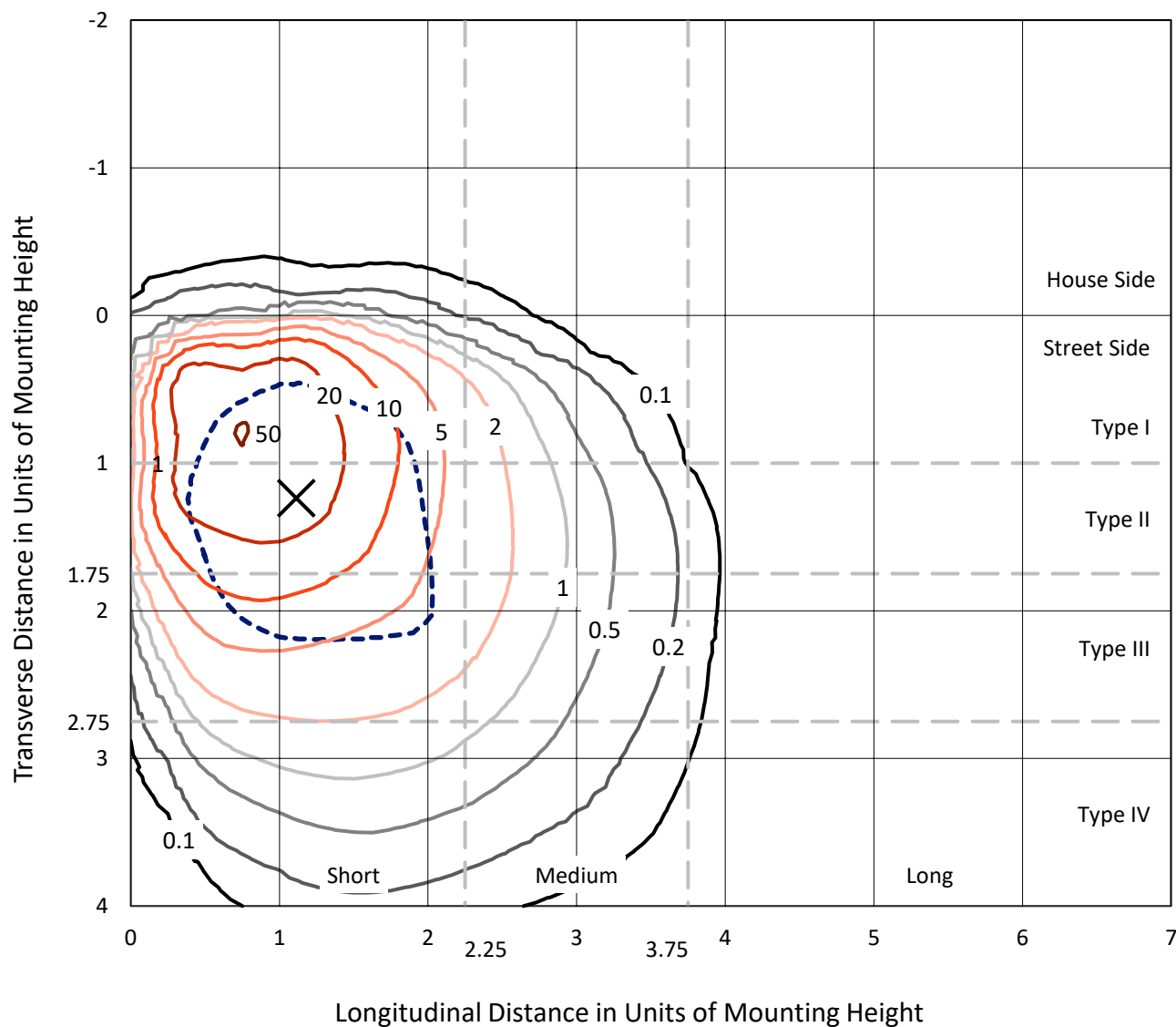
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

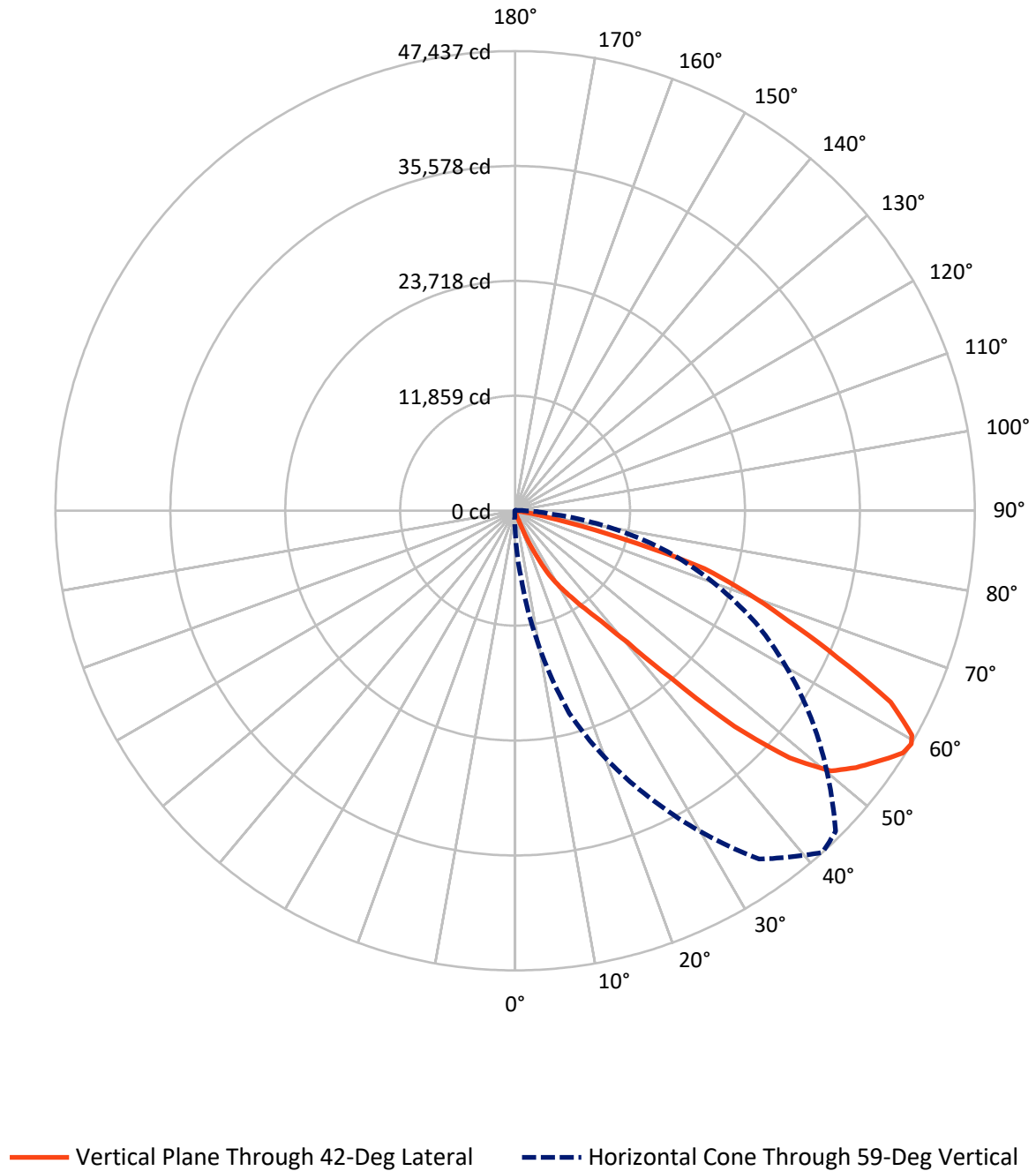


Based on 15 foot mounting height. Maximum calculated value = 51.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	83.3	0.0	83.3
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	17205.8	0.0	17205.8
	% Fixture	99.5	0.0	99.5
Total	Lumens	17289.1	0.0	17289.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.1	0.0
10°-20°	25.2	0.1
20°-30°	322.5	1.9
30°-40°	1087.3	6.3
40°-50°	3284.0	19.0
50°-60°	5797.1	33.5
60°-70°	5104.4	29.5
70°-80°	1624.7	9.4
80°-90°	38.9	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°	17289.1	100.0
0°-180°	17289.1	100.0



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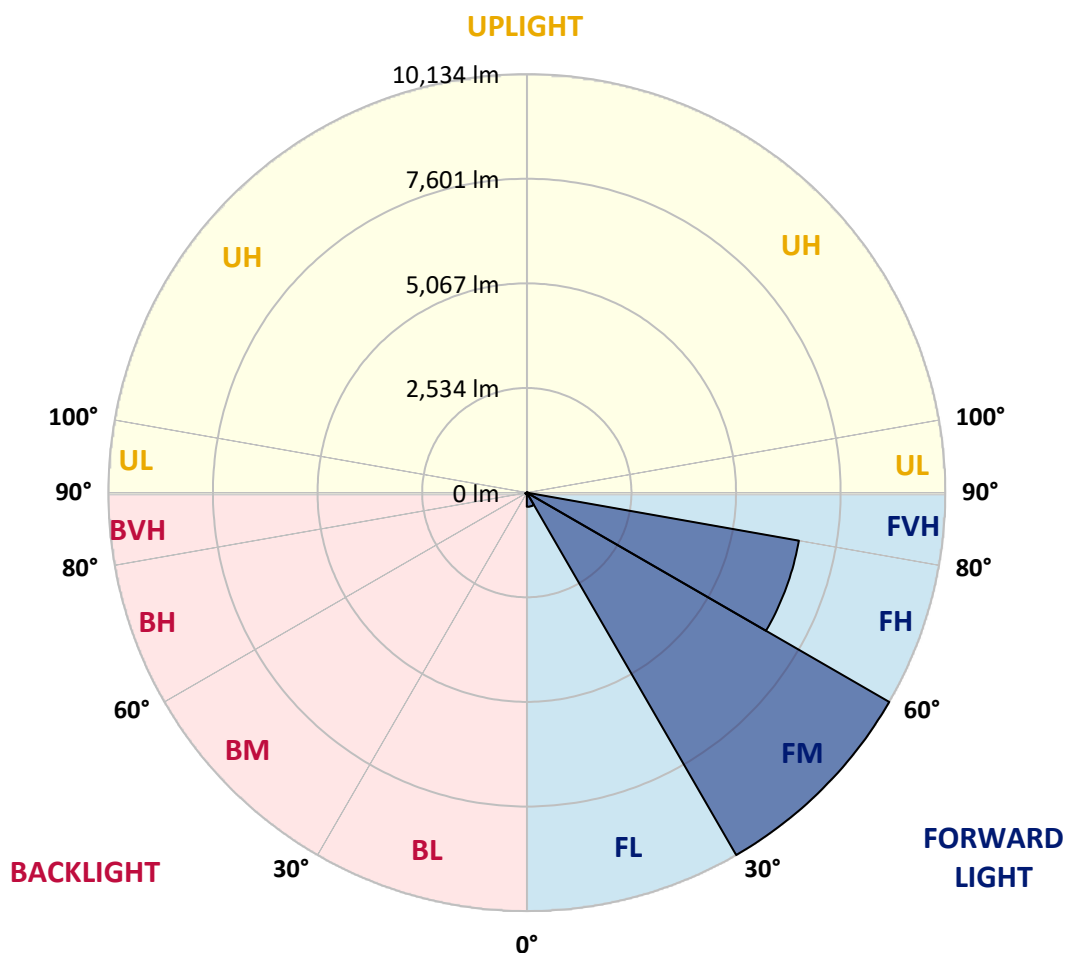
CATALOG NUMBER: NAV-SA4C-730-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	343.5	2.0			
FM	(30°-60°)	10134.3	58.6			
FH	(60°-80°)	6691.1	38.7			G3/7500
FVH	(80°-90°)	37.0	0.2			G1/100
BL	(0°-30°)	9.3	0.1	B0/110		
BM	(30°-60°)	34.0	0.2	B0/220		
BH	(60°-80°)	38.1	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°	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8
2.5°	75.9	75.9	70.5	65.0	59.6	54.2	54.2	54.2	48.8	48.8	43.4
5°	86.7	86.7	81.3	75.9	75.9	70.5	70.5	65.0	59.6	59.6	54.2
7.5°	92.2	92.2	92.2	92.2	86.7	86.7	86.7	81.3	75.9	70.5	65.0
10°	97.6	103.0	108.4	108.4	108.4	108.4	108.4	103.0	92.2	86.7	75.9
12.5°	108.4	113.8	124.7	135.5	135.5	140.9	135.5	130.1	119.3	103.0	86.7
15°	119.3	130.1	146.4	168.0	189.7	195.1	195.1	178.9	157.2	124.7	103.0
17.5°	135.5	151.8	195.1	265.6	341.5	401.1	401.1	357.8	249.4	162.6	119.3
20°	146.4	178.9	314.4	639.6	975.7	1225.1	1176.3	1040.8	558.3	254.8	130.1
22.5°	162.6	227.7	666.7	1680.4	2601.9	3057.3	2948.9	2238.8	1252.2	455.3	157.2
25°	184.3	330.7	1322.7	3149.4	4835.3	5328.6	5258.1	4179.4	2282.1	764.3	200.6
27.5°	227.7	487.9	2119.5	4775.7	7133.7	7556.5	7529.4	6120.0	3648.1	1230.5	260.2
30°	287.3	710.1	3144.0	6488.6	8656.9	9085.1	8949.6	7540.2	4922.0	1881.0	336.1
32.5°	357.8	992.0	4071.0	7751.6	10060.9	10624.6	10462.0	8776.2	5946.5	2433.9	498.7
35°	466.2	1268.4	4987.1	8868.3	11681.7	12397.2	12126.2	10050.0	6830.1	3057.3	601.7
37.5°	520.4	1431.1	5827.3	10082.5	13503.0	14478.8	14272.8	11660.0	7730.0	3854.1	737.2
40°	525.8	1626.2	6700.0	11665.4	16077.9	17817.9	17449.3	14424.6	9405.0	4878.7	948.6
42.5°	542.1	1918.9	7832.9	14364.9	21135.4	23634.4	23217.0	19509.2	13204.9	6933.1	1344.3
45°	618.0	2471.9	10142.2	19411.6	28079.4	31743.8	31261.3	26594.1	18511.8	10798.1	2293.0
47.5°	883.6	3718.6	14191.5	24859.4	35180.5	38102.3	37983.0	32177.4	23320.0	14760.6	3886.7
50°	1420.2	5708.0	18799.1	29440.0	39701.4	42211.2	41913.1	34508.3	26062.8	17465.6	4981.6
52.5°	1897.3	7610.7	21693.7	31125.8	41051.2	44043.4	43680.2	35359.4	26783.8	18262.4	5285.2
55°	2016.5	8299.1	22555.6	31646.2	41945.6	45593.7	45067.9	35928.6	26876.0	17693.2	4781.1
57.5°	1956.9	7648.6	21997.3	32155.7	43192.3	47187.4	46488.1	37039.8	27184.9	16728.4	3978.8
59°	1853.9	6846.4	21650.4	32562.3	43880.8	47436.8	46780.9	37283.8	27390.9	16289.3	3490.9
60°	1734.6	6304.3	21379.3	32827.9	43837.4	47046.5	46368.9	37169.9	27472.2	15909.8	3257.9
62.5°	1338.9	5030.4	20989.0	32638.2	41099.9	43485.1	43100.2	34383.7	26279.7	14695.6	2569.4
65°	1040.8	3848.7	19558.0	29109.3	34974.5	36579.1	36459.8	29114.7	22116.6	12668.2	1853.9
67.5°	824.0	2807.9	16538.6	23574.7	28139.0	30421.1	30334.4	23634.4	16788.0	9681.4	1333.5
70°	672.2	2000.2	11340.2	17774.6	22506.9	25379.8	25255.2	19021.3	12440.6	6141.7	970.3
72.5°	569.2	1279.3	6878.9	13400.0	18782.8	20425.3	20062.1	15346.1	9047.2	3344.6	769.7
75°	482.4	786.0	3409.6	8353.3	11188.4	11177.5	10814.3	8125.7	4857.0	1637.1	612.5
77.5°	390.3	552.9	1338.9	2293.0	3528.9	4369.1	4298.6	2878.4	1452.8	477.0	379.5
80°	254.8	260.2	357.8	628.8	970.3	1073.3	1219.7	878.2	422.8	227.7	157.2
82.5°	113.8	124.7	162.6	206.0	206.0	189.7	168.0	124.7	92.2	75.9	37.9
85°	27.1	37.9	27.1	32.5	27.1	21.7	21.7	10.8	0.0	0.0	0.0
87.5°	5.4	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°	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8
2.5°	43.4	43.4	43.4	37.9	37.9	37.9	32.5	32.5	32.5	27.1	27.1
5°	54.2	48.8	43.4	43.4	37.9	37.9	32.5	27.1	27.1	27.1	21.7
7.5°	59.6	54.2	48.8	43.4	37.9	32.5	32.5	27.1	21.7	21.7	21.7
10°	70.5	65.0	54.2	43.4	37.9	32.5	27.1	27.1	21.7	16.3	16.3
12.5°	81.3	70.5	59.6	48.8	37.9	32.5	27.1	27.1	21.7	16.3	10.8
15°	92.2	81.3	65.0	48.8	37.9	32.5	27.1	27.1	16.3	10.8	5.4
17.5°	103.0	86.7	65.0	54.2	37.9	32.5	27.1	21.7	10.8	5.4	0.0
20°	108.4	92.2	70.5	54.2	37.9	32.5	27.1	16.3	5.4	0.0	0.0
22.5°	119.3	103.0	75.9	54.2	37.9	27.1	16.3	5.4	0.0	0.0	0.0
25°	140.9	108.4	75.9	54.2	37.9	27.1	10.8	0.0	0.0	0.0	0.0
27.5°	157.2	119.3	75.9	54.2	37.9	21.7	5.4	0.0	0.0	0.0	0.0
30°	184.3	130.1	81.3	54.2	37.9	16.3	5.4	0.0	0.0	0.0	0.0
32.5°	227.7	140.9	81.3	54.2	32.5	16.3	0.0	0.0	0.0	0.0	0.0
35°	276.5	162.6	81.3	54.2	32.5	16.3	0.0	0.0	0.0	0.0	0.0
37.5°	281.9	173.5	81.3	54.2	32.5	10.8	0.0	0.0	0.0	0.0	0.0
40°	292.7	162.6	86.7	54.2	32.5	10.8	0.0	0.0	0.0	0.0	0.0
42.5°	336.1	151.8	92.2	54.2	32.5	10.8	0.0	0.0	0.0	0.0	0.0
45°	498.7	157.2	92.2	59.6	32.5	16.3	0.0	0.0	0.0	0.0	0.0
47.5°	867.3	162.6	86.7	59.6	32.5	16.3	0.0	0.0	0.0	0.0	0.0
50°	1111.2	189.7	86.7	65.0	37.9	10.8	0.0	0.0	0.0	0.0	0.0
52.5°	1181.7	222.2	86.7	70.5	48.8	5.4	0.0	0.0	0.0	0.0	0.0
55°	1149.2	260.2	92.2	75.9	59.6	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	1062.5	281.9	97.6	81.3	65.0	0.0	0.0	0.0	0.0	0.0	0.0
59°	970.3	298.1	113.8	86.7	65.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	894.4	314.4	119.3	92.2	65.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	721.0	336.1	130.1	108.4	54.2	0.0	0.0	0.0	0.0	0.0	0.0
65°	628.8	352.3	135.5	119.3	48.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	574.6	363.2	146.4	124.7	43.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	531.2	357.8	157.2	119.3	37.9	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	482.4	341.5	189.7	108.4	32.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	433.7	309.0	206.0	97.6	21.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	314.4	260.2	189.7	86.7	10.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	135.5	140.9	135.5	65.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	27.1	32.5	27.1	16.3	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8
2.5°	27.1	27.1	27.1	27.1	32.5	32.5	43.4	54.2	65.0	70.5	70.5
5°	21.7	21.7	21.7	21.7	21.7	27.1	32.5	43.4	59.6	65.0	65.0
7.5°	16.3	16.3	16.3	16.3	16.3	16.3	27.1	37.9	54.2	59.6	65.0
10°	16.3	10.8	10.8	5.4	5.4	10.8	16.3	32.5	48.8	54.2	59.6
12.5°	10.8	5.4	5.4	0.0	0.0	5.4	10.8	27.1	43.4	48.8	54.2
15°	5.4	0.0	0.0	0.0	0.0	0.0	5.4	21.7	37.9	43.4	54.2
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.3	32.5	43.4	48.8
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.8	27.1	37.9	43.4
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	21.7	32.5	37.9
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.3	21.7	27.1
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.8	16.3	21.7
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.8	16.3	21.7
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	10.8	16.3
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	10.8	16.3
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	10.8	10.8
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	10.8
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	10.8
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	10.8
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	10.8
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	10.8
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	5.4
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	5.4
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	5.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	10.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	10.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	5.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	5.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	5.4
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°	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8
2.5°	75.9	75.9	70.5	65.0	65.0	65.0	70.5	75.9	75.9	75.9
5°	70.5	70.5	65.0	65.0	65.0	65.0	70.5	81.3	86.7	86.7
7.5°	70.5	70.5	65.0	65.0	65.0	65.0	70.5	81.3	86.7	92.2
10°	65.0	65.0	65.0	65.0	59.6	65.0	70.5	81.3	97.6	97.6
12.5°	65.0	65.0	65.0	65.0	59.6	65.0	75.9	86.7	103.0	108.4
15°	65.0	65.0	65.0	59.6	59.6	65.0	75.9	92.2	108.4	119.3
17.5°	59.6	65.0	65.0	59.6	59.6	65.0	75.9	92.2	119.3	135.5
20°	54.2	59.6	65.0	59.6	59.6	59.6	75.9	92.2	124.7	146.4
22.5°	48.8	54.2	59.6	59.6	54.2	59.6	75.9	97.6	135.5	162.6
25°	43.4	48.8	48.8	54.2	54.2	59.6	75.9	97.6	140.9	184.3
27.5°	32.5	37.9	43.4	48.8	48.8	59.6	75.9	103.0	151.8	227.7
30°	27.1	32.5	37.9	43.4	48.8	59.6	75.9	103.0	162.6	287.3
32.5°	27.1	32.5	37.9	43.4	48.8	54.2	75.9	108.4	178.9	357.8
35°	21.7	27.1	32.5	43.4	43.4	54.2	75.9	108.4	195.1	466.2
37.5°	21.7	27.1	32.5	43.4	43.4	54.2	75.9	108.4	238.5	520.4
40°	16.3	21.7	27.1	43.4	43.4	54.2	81.3	113.8	243.9	525.8
42.5°	16.3	21.7	27.1	37.9	43.4	54.2	81.3	113.8	227.7	542.1
45°	16.3	21.7	27.1	43.4	48.8	59.6	81.3	119.3	222.2	618.0
47.5°	16.3	21.7	27.1	43.4	54.2	59.6	81.3	119.3	227.7	883.6
50°	16.3	21.7	27.1	43.4	59.6	59.6	81.3	119.3	249.4	1420.2
52.5°	10.8	16.3	21.7	37.9	48.8	65.0	86.7	113.8	265.6	1897.3
55°	10.8	10.8	16.3	32.5	43.4	70.5	92.2	113.8	309.0	2016.5
57.5°	10.8	10.8	16.3	27.1	37.9	75.9	97.6	113.8	357.8	1956.9
59°	10.8	10.8	10.8	27.1	32.5	75.9	97.6	119.3	363.2	1853.9
60°	10.8	10.8	10.8	21.7	32.5	75.9	103.0	124.7	368.6	1734.6
62.5°	5.4	5.4	5.4	21.7	27.1	75.9	113.8	151.8	379.5	1338.9
65°	10.8	10.8	5.4	16.3	27.1	65.0	130.1	162.6	384.9	1040.8
67.5°	10.8	10.8	10.8	21.7	27.1	65.0	135.5	168.0	384.9	824.0
70°	10.8	10.8	10.8	21.7	32.5	65.0	135.5	173.5	379.5	672.2
72.5°	10.8	10.8	10.8	21.7	32.5	59.6	124.7	178.9	363.2	569.2
75°	10.8	10.8	10.8	16.3	27.1	54.2	119.3	195.1	330.7	482.4
77.5°	10.8	10.8	10.8	10.8	21.7	43.4	108.4	216.8	292.7	390.3
80°	16.3	10.8	10.8	10.8	16.3	37.9	103.0	211.4	243.9	254.8
82.5°	16.3	10.8	10.8	5.4	10.8	27.1	81.3	162.6	124.7	113.8
85°	10.8	10.8	10.8	5.4	5.4	16.3	37.9	48.8	37.9	27.1
87.5°	10.8	10.8	10.8	5.4	5.4	5.4	5.4	5.4	5.4	5.4
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

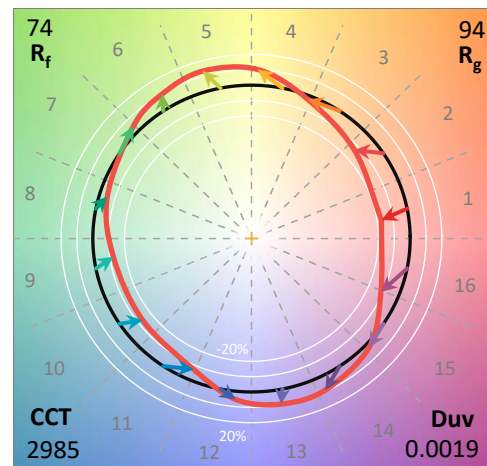
Test Information

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

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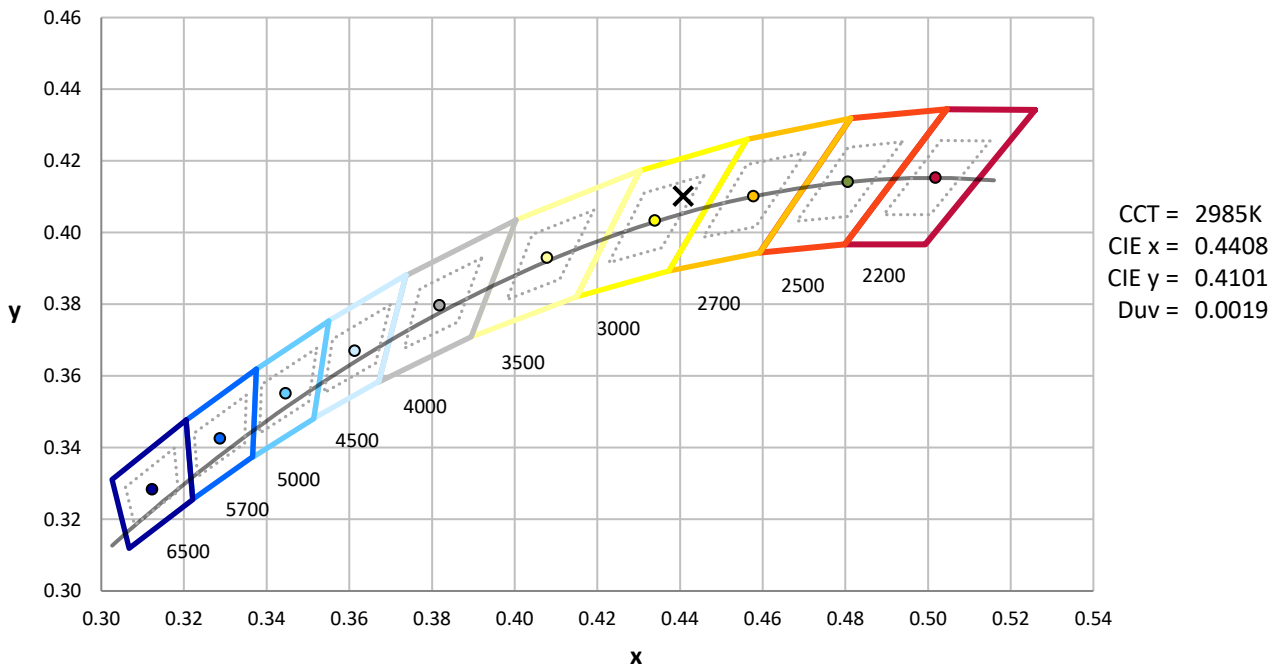
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	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

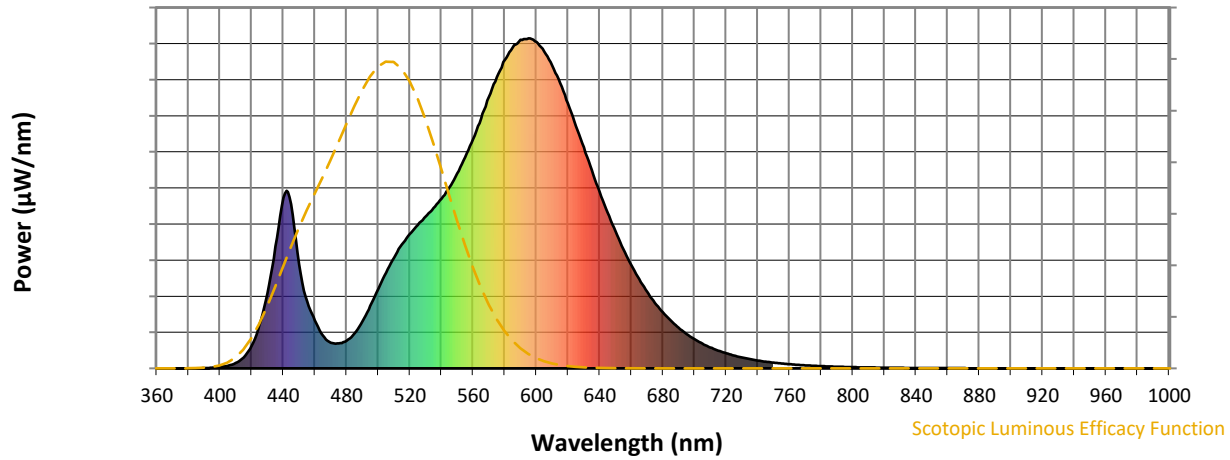


Photopic Lumens: NR

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



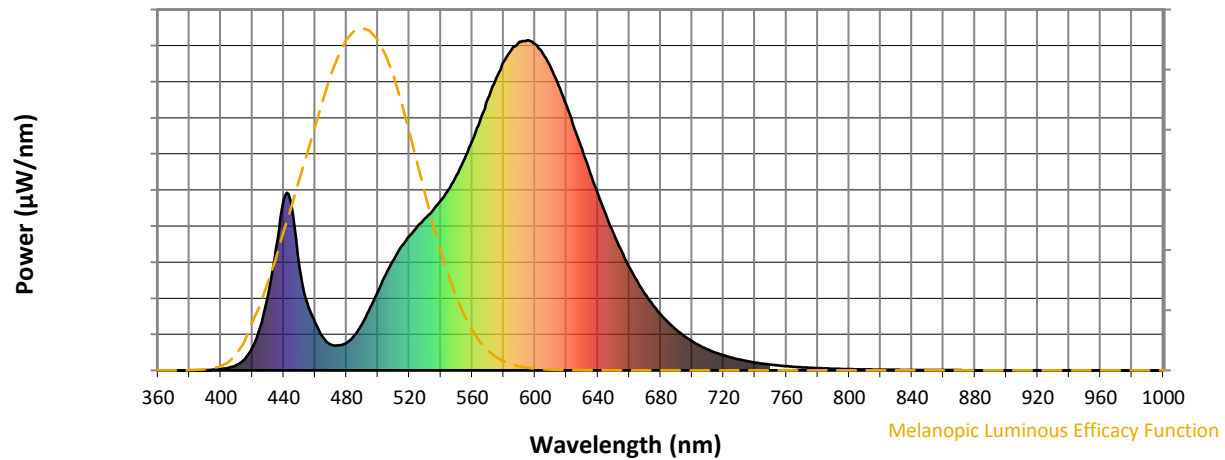
Scotopic Lumens: NR

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

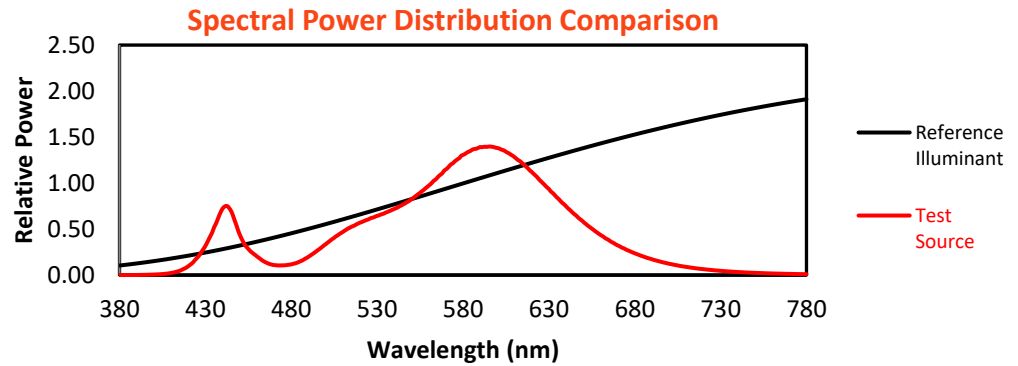
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	142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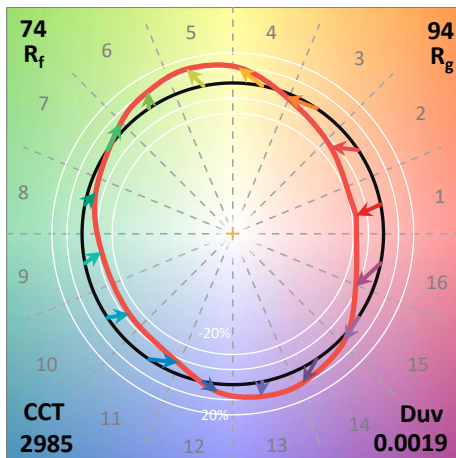
TM-30-18

Summary

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

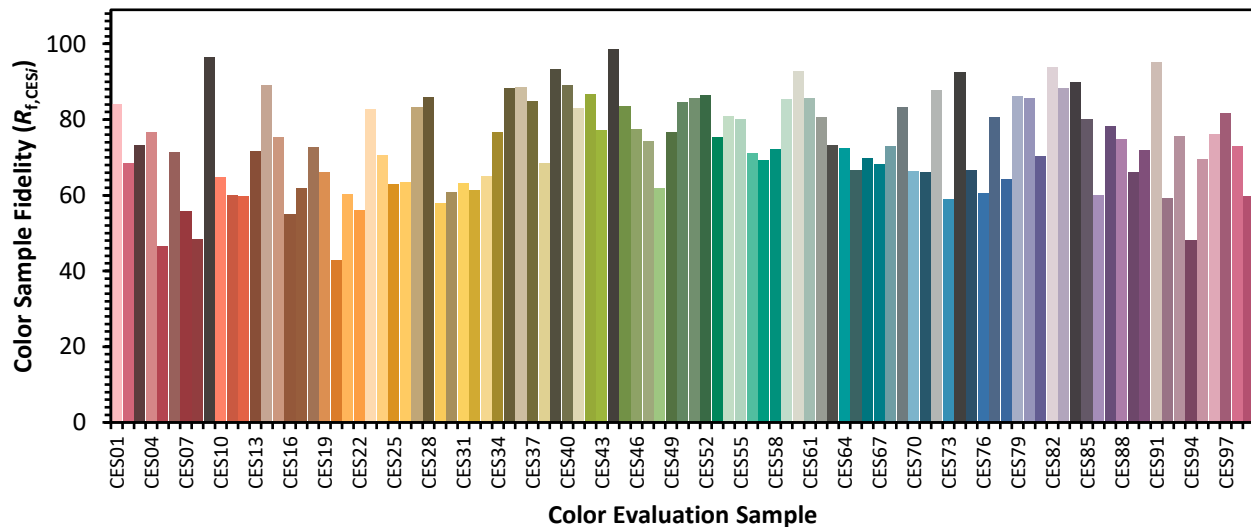


Color Vector Graphics



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

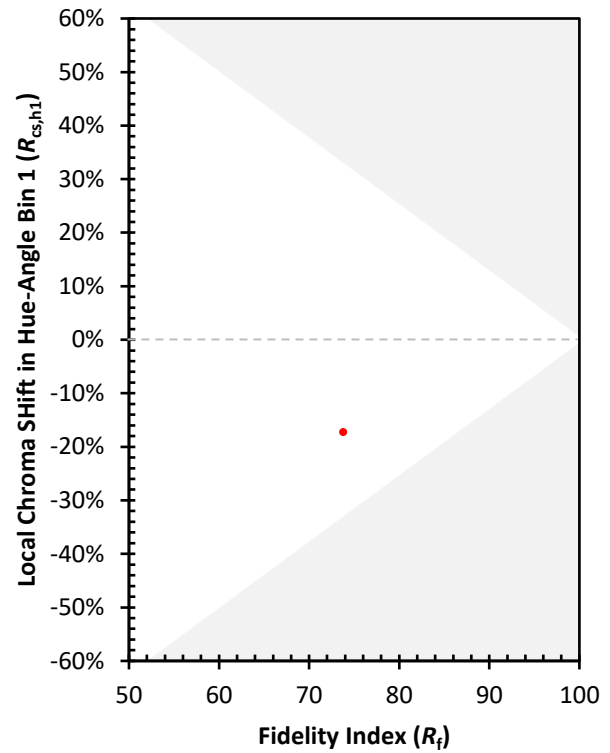
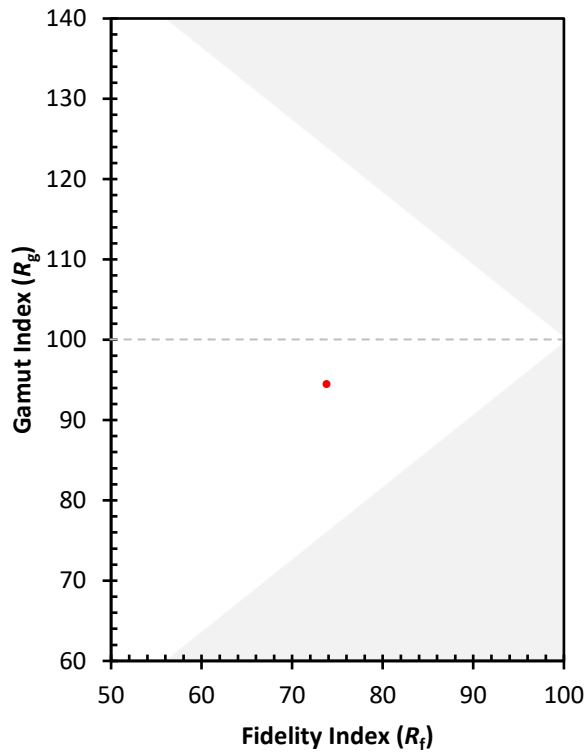
CES01 = 86	CES26 = 63	CES51 = 86	CES76 = 61
CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82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