

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: McGRAW-EDISON

Report Number: P324632

Luminaire Tested: **GLEON-SA8A-830-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324632
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8A-830-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22000 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G4

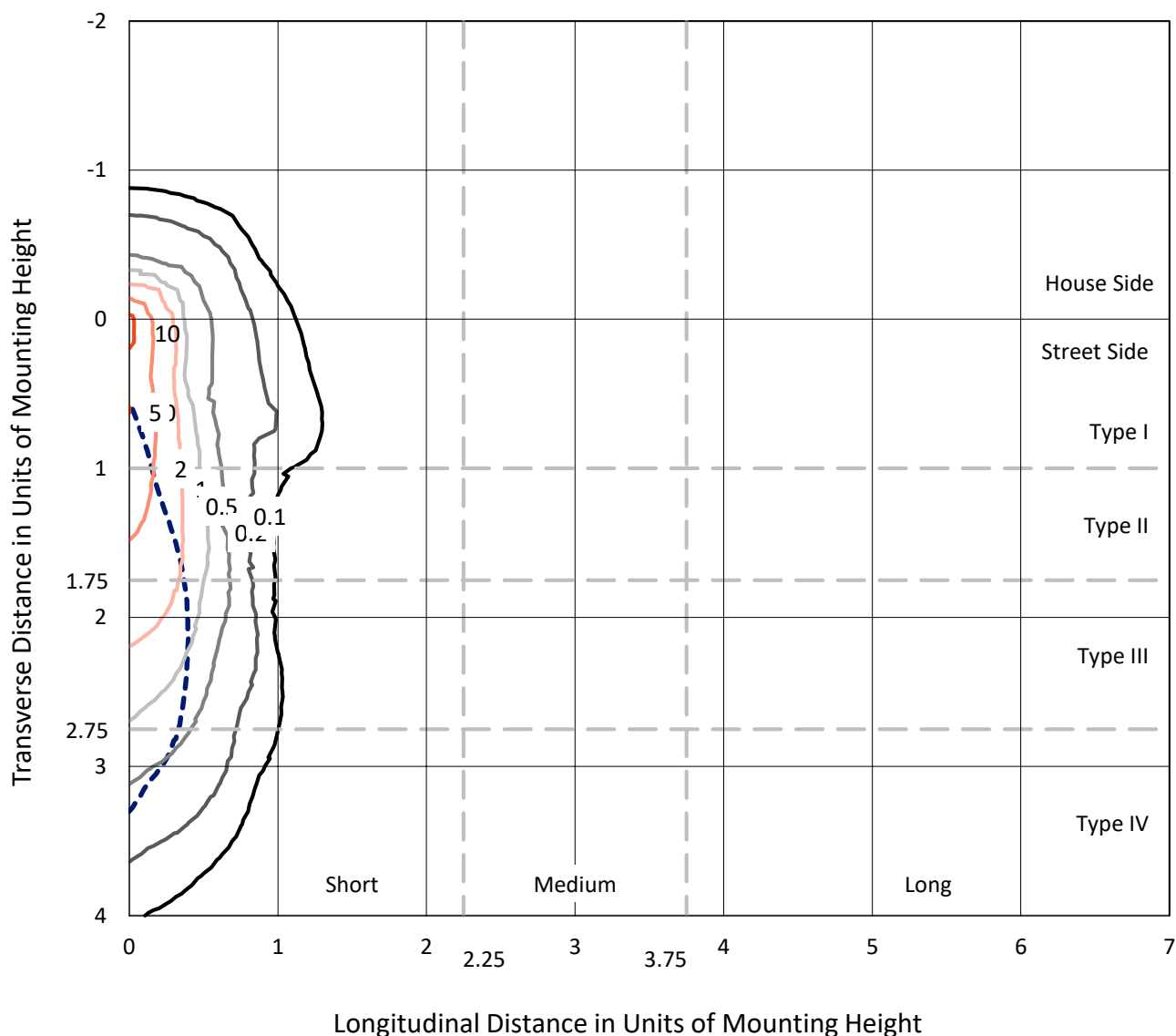
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

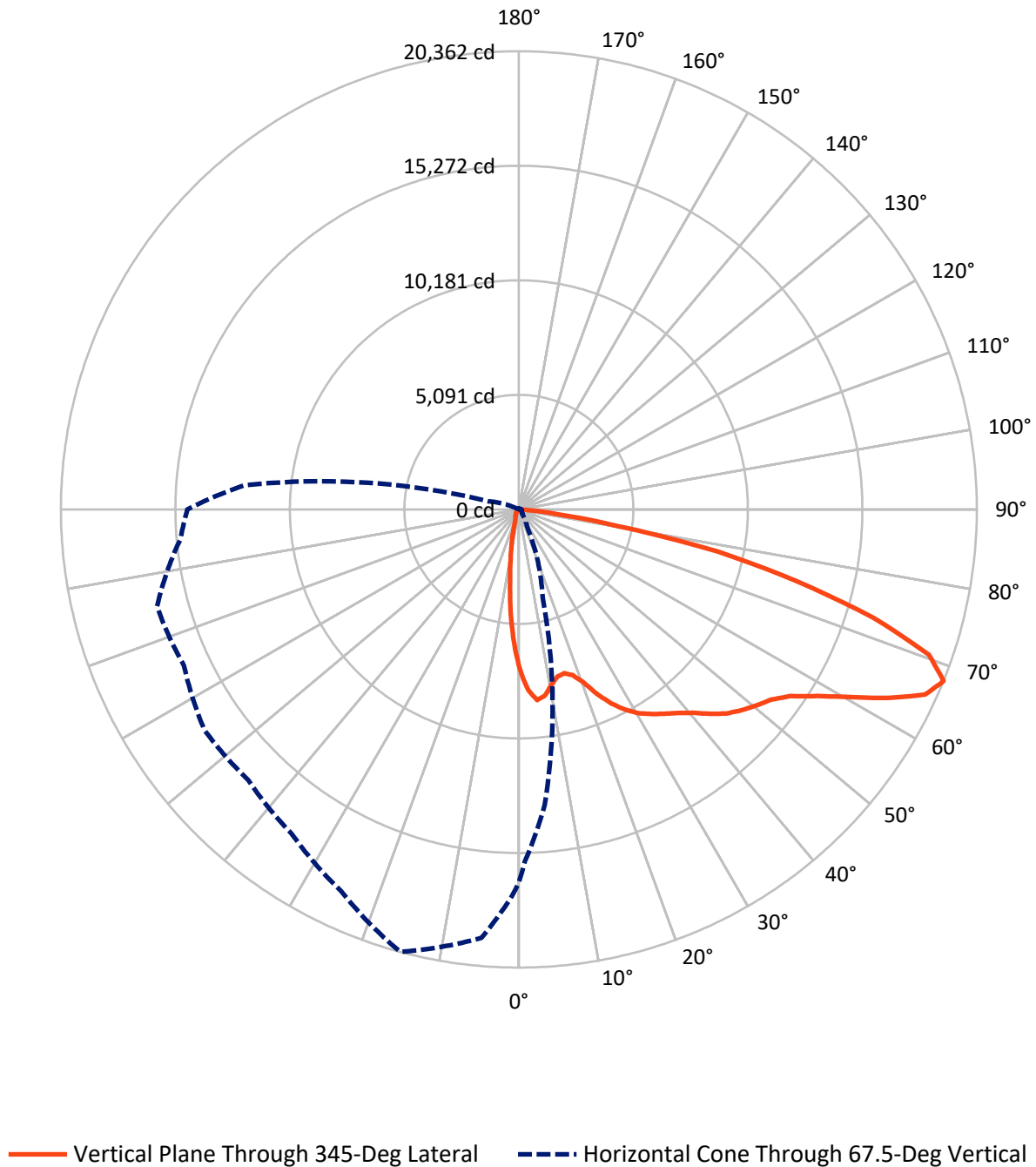
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2662.7	0.0	2662.7
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	19337.3	0.0	19337.3
	% Fixture	87.9	0.0	87.9
Total	Lumens	22000.0	0.0	22000.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	550.0	2.5
10°-20°	1094.8	5.0
20°-30°	1554.6	7.1
30°-40°	2296.3	10.4
40°-50°	3311.7	15.1
50°-60°	4648.9	21.1
60°-70°	5419.3	24.6
70°-80°	2770.5	12.6
80°-90°	353.8	1.6
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°	22000.0	100.0
0°-180°	22000.0	100.0

Coefficient of Utilization



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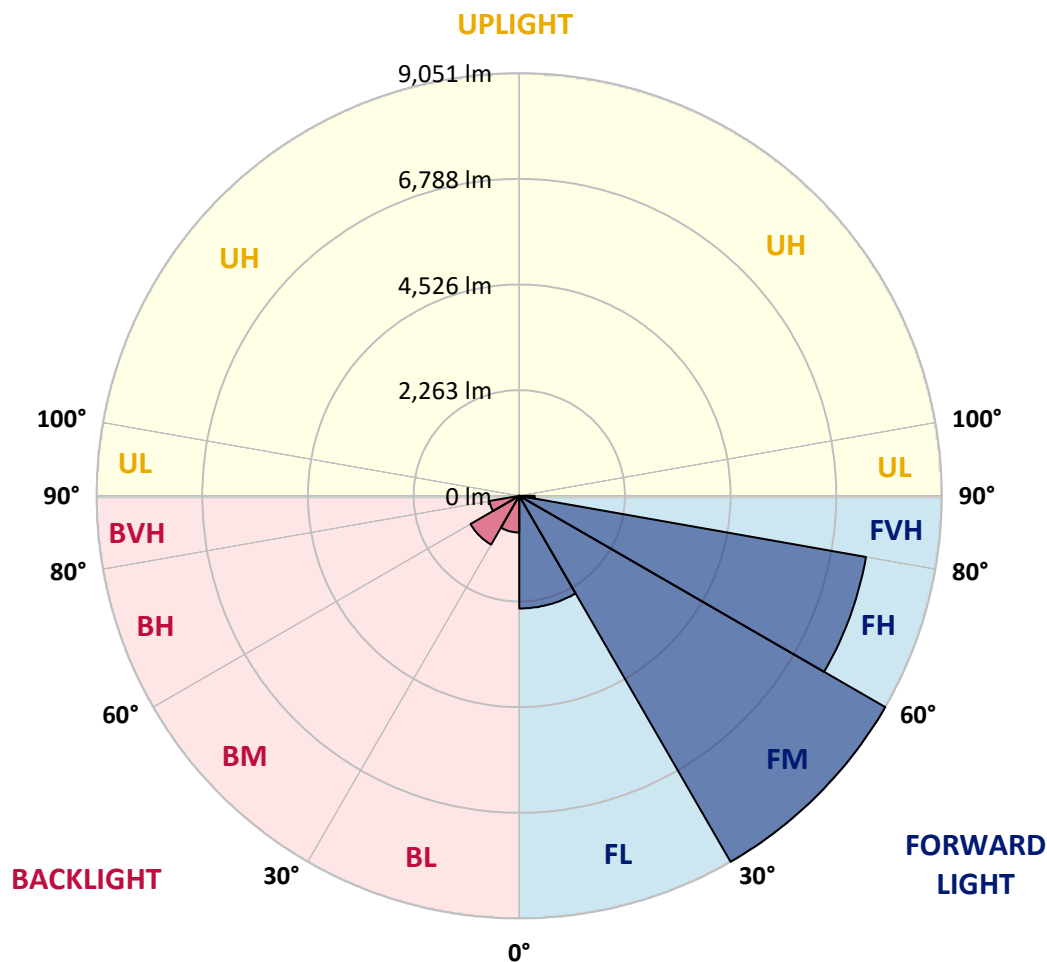
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2413.0	11.0			
FM	(30°-60°)	9051.2	41.1			
FH	(60°-80°)	7540.8	34.3			G4/12000
FVH	(80°-90°)	332.3	1.5			G3/500
BL	(0°-30°)	786.5	3.6	B2/1000		
BM	(30°-60°)	1205.8	5.5	B2/2500		
BH	(60°-80°)	649.0	2.9	B2/1000		G2/1000
BVH	(80°-90°)	21.5	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7166.5	7166.5	7166.5	7166.5	7166.5	7166.5	7166.5	7166.5	7166.5	7166.5	7166.5
2.5°	7847.0	7786.6	7719.9	7502.1	7299.9	7068.5	6879.8	6748.5	6583.8	6370.2	6316.0
5°	7790.8	7726.1	7516.7	7032.0	6607.8	6195.1	5797.0	5563.5	5273.7	4979.8	4906.9
7.5°	7224.8	7157.1	6854.8	6190.9	5619.8	5023.6	4506.7	4186.7	3859.4	3590.5	3447.7
10°	6636.0	6562.0	6222.2	5416.5	4713.0	4174.2	3794.8	3489.4	3179.9	2892.2	2662.9
12.5°	6230.5	6133.6	5764.6	4851.6	4238.8	3873.0	3518.6	3152.8	2733.8	2425.3	2173.1
15°	6060.6	5950.2	5560.4	4633.8	4071.0	3641.6	3179.9	2730.7	2239.8	1886.5	1655.1
17.5°	6192.0	6048.1	5630.2	4619.2	3860.5	3275.8	2692.1	2164.7	1632.2	1274.7	1110.0
20°	6638.0	6449.4	5918.9	4615.0	3605.1	2841.2	2101.2	1505.0	1075.6	865.1	778.6
22.5°	7340.5	7091.4	6333.7	4648.4	3341.4	2384.7	1517.5	1022.4	807.7	698.3	647.2
25°	8188.9	7900.2	6930.9	4766.2	3110.1	1940.7	1102.7	807.7	681.6	601.4	558.6
27.5°	8995.6	8761.1	7685.5	4936.1	2930.8	1582.1	895.3	684.8	582.6	529.5	495.1
30°	9801.2	9506.3	8459.9	5138.3	2715.0	1339.3	786.9	624.3	522.2	465.9	444.0
32.5°	10387.0	10142.1	9066.5	5284.2	2484.7	1180.9	703.5	571.1	487.8	430.4	398.1
35°	11075.9	10798.7	9586.5	5316.5	2336.7	1080.8	632.6	513.8	423.2	372.1	337.7
37.5°	11820.1	11475.1	10186.9	5245.6	2221.0	1031.8	579.5	487.8	395.0	342.9	306.4
40°	12643.4	12253.6	10763.2	5143.5	2107.4	1015.1	538.8	468.0	373.1	320.0	282.4
42.5°	13510.6	13051.0	11262.5	5036.1	2035.5	957.8	534.7	448.2	356.4	299.1	261.6
45°	14239.1	13773.2	11775.3	5000.7	1984.4	895.3	552.4	434.6	345.0	282.4	246.0
47.5°	14819.6	14378.8	12300.5	5079.9	1955.2	838.0	503.4	452.3	338.7	267.9	232.4
50°	15512.7	15013.5	13040.5	5316.5	1912.5	780.6	455.5	518.0	338.7	258.5	221.0
52.5°	16382.0	15887.9	13866.0	5683.3	1827.1	701.4	409.6	519.0	341.9	246.0	206.4
55°	17475.3	17116.7	15044.8	6085.7	1690.5	584.7	354.4	446.1	329.3	223.0	192.8
57.5°	18523.8	18230.9	16119.3	6360.8	1508.1	456.5	308.5	359.6	301.2	195.9	172.0
59°	18810.4	18490.4	16513.3	6373.3	1371.6	398.1	285.6	297.0	295.0	183.4	159.5
60°	18810.4	18470.6	16626.9	6306.6	1272.6	365.8	271.0	264.7	307.5	175.1	152.2
62.5°	18469.6	17992.2	16257.9	5855.3	1038.1	311.6	236.6	218.9	276.2	157.4	134.4
65°	17760.9	17065.7	15001.0	5039.2	925.5	285.6	204.3	179.3	191.8	138.6	117.8
67.5°	16579.0	15636.8	13188.5	4071.0	880.7	278.3	176.1	152.2	144.9	118.8	103.2
70°	14497.6	13452.2	10988.4	3200.7	842.1	275.2	148.0	128.2	116.7	100.1	87.5
72.5°	10551.7	9461.5	7801.2	2502.4	819.2	281.4	118.8	107.4	95.9	78.2	67.7
75°	6035.6	5321.7	4384.7	1653.0	698.3	268.9	91.7	89.6	68.8	56.3	46.9
77.5°	3118.4	3023.5	2627.5	634.7	334.6	117.8	60.5	52.1	40.6	34.4	28.1
80°	1345.5	1330.9	1151.7	183.4	88.6	65.7	34.4	21.9	18.8	14.6	11.5
82.5°	464.8	464.8	409.6	61.5	39.6	32.3	4.2	0.0	0.0	0.0	0.0
85°	93.8	105.3	74.0	0.0	13.5	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7166.5	7166.5	7166.5	7166.5	7166.5	7166.5	7166.5	7166.5	7166.5	7166.5	7166.5
2.5°	6250.3	6124.2	6115.9	6036.7	5937.7	5892.8	5866.8	5912.6	5968.9	5975.2	6059.6
5°	4851.6	4719.3	4774.5	4633.8	4662.0	4633.8	4588.0	4596.3	4621.3	4543.1	4640.1
7.5°	3407.1	3307.0	3370.6	3333.1	3383.1	3402.9	3374.8	3333.1	3210.1	3195.5	3279.9
10°	2568.1	2454.5	2386.7	2315.9	2331.5	2363.8	2353.4	2323.2	2245.0	2249.2	2330.5
12.5°	2063.6	1936.5	1802.0	1628.0	1585.3	1609.2	1585.3	1567.5	1492.5	1498.7	1570.7
15°	1565.4	1461.2	1320.5	1180.9	1104.8	1112.1	1045.4	998.5	951.6	895.3	939.1
17.5°	1056.8	993.3	951.6	909.9	819.2	798.4	713.9	623.3	587.8	561.8	580.5
20°	748.3	713.9	697.3	695.2	643.1	617.0	534.7	478.4	460.7	455.5	466.9
22.5°	625.3	600.3	576.4	562.8	536.8	506.5	444.0	415.9	403.3	397.1	405.4
25°	544.1	525.3	500.3	477.3	466.9	434.6	389.8	369.0	360.6	354.4	358.5
27.5°	483.6	466.9	437.7	423.2	414.8	386.7	348.1	331.4	324.1	322.1	321.0
30°	435.7	420.0	392.9	376.2	361.7	336.6	313.7	297.0	289.7	287.7	285.6
32.5°	387.7	375.2	357.5	340.8	325.2	302.3	282.4	268.9	257.4	255.3	254.3
35°	327.3	314.8	305.4	304.3	289.7	267.9	253.3	235.5	226.2	223.0	224.1
37.5°	290.8	274.1	253.3	260.6	256.4	240.8	221.0	203.2	193.9	191.8	191.8
40°	267.9	250.1	226.2	213.7	226.2	223.0	191.8	174.1	164.7	163.6	161.5
42.5°	246.0	228.3	201.2	180.3	186.6	195.9	165.7	149.0	139.7	137.6	134.4
45°	230.3	211.6	181.4	157.4	144.9	164.7	141.7	120.9	115.7	111.5	109.4
47.5°	215.7	198.0	163.6	136.5	115.7	118.8	113.6	99.0	92.8	88.6	87.5
50°	203.2	184.5	148.0	116.7	95.9	87.5	91.7	78.2	73.0	68.8	66.7
52.5°	188.6	170.9	131.3	101.1	80.3	68.8	69.8	61.5	56.3	53.2	52.1
55°	177.2	159.5	117.8	88.6	70.9	56.3	50.0	47.9	44.8	42.7	41.7
57.5°	161.5	144.9	104.2	75.0	60.5	45.9	38.6	38.6	37.5	35.4	34.4
59°	152.2	137.6	95.9	67.7	55.2	39.6	34.4	35.4	34.4	32.3	31.3
60°	144.9	131.3	89.6	62.5	52.1	36.5	31.3	33.4	32.3	30.2	29.2
62.5°	128.2	118.8	77.1	52.1	45.9	29.2	26.1	28.1	28.1	27.1	26.1
65°	112.6	102.1	65.7	43.8	42.7	25.0	20.8	25.0	26.1	24.0	21.9
67.5°	98.0	87.5	57.3	35.4	39.6	19.8	15.6	20.8	28.1	21.9	19.8
70°	83.4	73.0	44.8	28.1	41.7	13.5	12.5	18.8	33.4	24.0	18.8
72.5°	64.6	56.3	31.3	20.8	44.8	9.4	9.4	15.6	37.5	26.1	17.7
75°	44.8	36.5	18.8	12.5	36.5	6.3	6.3	14.6	35.4	24.0	16.7
77.5°	26.1	19.8	6.3	1.0	18.8	0.0	1.0	10.4	25.0	14.6	7.3
80°	9.4	4.2	0.0	0.0	11.5	0.0	0.0	0.0	2.1	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	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°	7166.5	7166.5	7166.5	7166.5	7166.5	7166.5	7166.5	7166.5	7166.5	7166.5	7166.5
2.5°	6081.5	6222.2	6348.3	6539.0	6765.2	7025.8	7249.8	7490.6	7716.8	7810.6	7875.2
5°	4659.9	4833.9	5037.2	5317.5	5690.6	6150.3	6580.7	7067.4	7590.7	7852.3	8098.2
7.5°	3294.5	3471.7	3723.9	4022.0	4473.3	5020.5	5583.3	6255.5	6964.3	7378.0	7785.6
10°	2369.0	2586.8	2822.4	3229.9	3688.5	4207.5	4787.0	5537.4	6327.5	6786.0	7276.9
12.5°	1612.3	1860.4	2216.8	2673.4	3212.2	3720.8	4224.2	4940.2	5857.4	6311.8	6838.2
15°	967.2	1104.8	1482.1	2010.5	2671.3	3305.0	3856.3	4574.4	5552.0	6108.6	6655.8
17.5°	596.2	659.7	865.1	1298.6	1992.8	2794.3	3549.9	4450.4	5595.8	6273.3	6859.0
20°	475.3	500.3	565.9	767.1	1320.5	2231.4	3204.9	4425.4	5953.3	6787.1	7415.6
22.5°	412.7	436.7	480.5	557.6	830.7	1670.7	2877.6	4448.3	6466.1	7557.3	8291.0
25°	363.7	384.6	426.3	489.9	608.7	1176.7	2527.4	4550.4	7134.1	8513.0	9292.6
27.5°	325.2	342.9	381.5	439.8	522.2	821.3	2130.3	4674.5	7926.3	9490.7	10259.8
30°	289.7	305.4	339.8	394.0	453.4	631.6	1694.7	4758.9	8719.4	10259.8	10950.8
32.5°	259.5	271.0	302.3	348.1	394.0	503.4	1288.2	4745.3	9308.3	10899.8	11448.0
35°	228.3	239.7	266.8	306.4	342.9	415.9	1013.1	4492.1	9821.1	11563.7	12017.1
37.5°	193.9	208.4	234.5	269.9	295.0	365.8	819.2	4186.7	10341.1	12322.4	12651.8
40°	164.7	179.3	202.2	240.8	256.4	347.1	629.5	3814.6	10925.8	13170.8	13348.0
42.5°	136.5	150.1	174.1	207.4	241.8	299.1	465.9	3389.4	11487.6	13896.2	13982.7
45°	110.5	124.0	149.0	182.4	258.5	248.1	360.6	2933.9	11941.0	14499.7	14527.8
47.5°	87.5	100.1	126.1	172.0	240.8	198.0	257.4	2576.4	12321.4	14970.8	14896.8
50°	67.7	78.2	105.3	197.0	210.5	163.6	194.9	2457.6	12662.2	15262.6	15070.8
52.5°	53.2	62.5	86.5	184.5	163.6	135.5	163.6	2569.1	13129.1	15504.4	15168.8
55°	42.7	52.1	67.7	105.3	111.5	114.6	139.7	2673.4	13934.8	16071.4	15747.2
57.5°	35.4	44.8	55.2	74.0	84.4	96.9	124.0	2684.8	14884.3	17013.6	16707.1
59°	32.3	40.6	50.0	65.7	74.0	88.6	116.7	2622.3	15218.8	17356.5	17203.3
60°	30.2	38.6	46.9	60.5	68.8	83.4	112.6	2562.9	15233.4	17344.0	17414.8
62.5°	26.1	34.4	41.7	51.1	58.4	70.9	101.1	2343.0	14616.4	16775.9	17287.7
65°	22.9	30.2	37.5	43.8	50.0	63.6	91.7	1941.7	13562.7	15859.8	16417.4
67.5°	20.8	26.1	34.4	38.6	44.8	56.3	81.3	1384.1	12246.3	14739.4	15101.1
70°	18.8	25.0	31.3	35.4	40.6	49.0	69.8	795.2	10341.1	13098.9	13356.3
72.5°	17.7	24.0	28.1	33.4	36.5	43.8	63.6	374.2	7571.9	10493.3	11165.5
75°	15.6	21.9	26.1	31.3	34.4	39.6	54.2	179.3	5036.1	7593.8	8357.7
77.5°	9.4	17.7	24.0	28.1	30.2	34.4	44.8	103.2	3214.3	5256.0	6190.9
80°	0.0	6.3	17.7	24.0	26.1	29.2	34.4	81.3	1719.7	3002.7	3604.1
82.5°	0.0	0.0	12.5	18.8	17.7	19.8	26.1	51.1	775.4	1962.5	2211.6
85°	0.0	0.0	4.2	14.6	12.5	9.4	17.7	17.7	169.9	993.3	1239.2
87.5°	0.0	0.0	0.0	1.0	6.3	4.2	7.3	2.1	1.0	74.0	300.2
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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CATALOG NUMBER: GLEON-SA8A-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7166.5	7166.5	7166.5	7166.5	7166.5	7166.5	7166.5	7166.5	7166.5	7166.5
2.5°	8101.4	8178.5	8308.8	8370.2	8340.0	8211.8	8058.6	7902.3	7810.6	7847.0
5°	8599.5	8996.6	9225.9	9302.0	9174.9	8887.2	8511.0	8014.8	7838.7	7790.8
7.5°	8599.5	9346.8	9820.0	9903.4	9619.9	9056.0	8350.4	7576.1	7318.6	7224.8
10°	8297.3	9314.5	9974.3	10106.6	9710.6	8867.4	7922.1	7038.3	6732.9	6636.0
12.5°	7956.5	9051.9	9747.1	9929.4	9604.3	8679.8	7625.0	6674.5	6314.9	6230.5
15°	7747.0	8728.8	9304.1	9436.5	9298.9	8570.4	7554.2	6565.1	6141.9	6060.6
17.5°	7822.0	8478.6	8686.0	8763.2	8855.9	8531.8	7747.0	6804.8	6269.1	6192.0
20°	8104.5	8215.0	8107.6	8204.5	8454.7	8569.3	8206.6	7384.3	6741.2	6638.0
22.5°	8583.9	8078.4	7777.2	7815.8	8120.1	8693.3	8909.1	8211.8	7469.8	7340.5
25°	9142.6	8188.9	7593.8	7559.4	7872.1	8857.0	9551.1	9112.3	8331.7	8188.9
27.5°	9845.0	8437.0	7556.3	7521.9	7785.6	9010.2	10084.7	10002.4	9239.5	8995.6
30°	10387.0	8680.8	7667.8	7588.6	7872.1	9116.5	10513.1	10758.0	9962.8	9801.2
32.5°	10775.7	8968.5	7849.1	7734.5	8115.9	9299.9	10843.5	11450.1	10631.9	10387.0
35°	11071.7	9281.2	8142.0	7953.4	8451.5	9578.2	11153.0	12186.9	11343.8	11075.9
37.5°	11349.0	9720.0	8599.5	8374.4	8977.9	10026.4	11480.3	13022.8	12140.0	11820.1
40°	11735.7	10217.1	9305.1	9105.0	9862.7	10637.1	11888.9	13894.1	13045.7	12643.4
42.5°	12122.3	10750.7	10027.4	10081.6	10966.5	11379.2	12416.2	14815.5	13940.0	13510.6
45°	12475.6	11301.0	11056.1	11306.2	11991.0	12193.2	12940.5	15348.1	14653.9	14239.1
47.5°	12790.4	11988.9	12078.5	12744.5	13156.2	12930.1	13332.4	15807.7	15185.5	14819.6
50°	13156.2	12879.0	13426.2	14368.4	14497.6	13597.1	13688.8	16351.7	15806.6	15512.7
52.5°	13556.4	13817.0	14918.7	15749.3	15707.6	14321.5	14047.3	16961.5	16658.2	16382.0
55°	14010.9	14574.7	16232.9	17041.7	17006.3	15130.2	14641.4	17715.0	17725.4	17475.3
57.5°	14685.2	15227.2	17125.1	18087.1	18146.5	16064.1	15648.2	18559.2	18690.5	18523.8
59°	15168.8	15650.3	17478.4	18523.8	18765.6	16786.4	16384.1	19049.1	18962.6	18810.4
60°	15527.3	15919.2	17653.5	18752.0	19125.1	17276.2	16927.1	19336.7	18994.9	18810.4
62.5°	16414.3	16505.0	17969.3	19010.5	19538.9	18364.3	18455.0	19826.6	18770.8	18469.6
65°	16828.0	16874.9	17965.1	18547.7	19138.7	19211.7	19841.2	19841.2	18223.6	17760.9
67.5°	16655.0	16428.9	17074.0	17013.6	17603.5	18708.3	20362.3	19113.7	17177.2	16579.0
70°	15248.0	14377.7	14091.1	14117.2	14568.5	16272.5	19330.5	16972.9	15196.9	14497.6
72.5°	12687.2	10599.6	9891.9	10699.7	10817.4	12505.9	16473.7	12782.1	11207.2	10551.7
75°	10204.6	7471.8	6321.2	7173.8	7373.9	9151.9	12743.5	7960.6	6546.3	6035.6
77.5°	7331.1	5363.4	4535.8	4476.4	4734.9	5804.2	9042.5	4006.4	3341.4	3118.4
80°	4164.8	3530.1	3801.1	3586.4	3716.6	3629.1	4296.1	1757.2	1439.3	1345.5
82.5°	2513.9	2086.6	2259.6	1881.2	2380.5	2073.0	1655.1	562.8	488.8	464.8
85°	1635.3	1140.2	594.1	398.1	820.2	1324.7	370.0	153.2	117.8	93.8
87.5°	563.9	290.8	29.2	12.5	87.5	247.0	13.5	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

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

MCGRAW EDISON

Report Number: SP1-2408-195-9

Test Date: 08/07/2024

Luminaire Tested: GALN-SB1A-830-U-5WQ

Data in this report applies to families of products including GALN-SB1A-830-U-5WQ.

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2408-195-9
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 08/07/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: MCGRAW EDISON
 Catalog Number: **GALN-SB1A-830-U-5WQ**
 Description: GALLEON AREA AND ROADWAY LUMINAIRE. (1) 80 CRI, 3000K, 350MA HIGH DENSITY LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS

Spectral Parameters

CCT (K): 3050
 CIE u' : 0.2476
 CIE v' : 0.5251
 Duv: 0.0034
 CIE x: 0.4383
 CIE y: 0.4131
 CIE z: 0.1487
 Peak Wavelength (nm): 603
 Dominant Wavelength (nm): 581
 Purity: 55.55201
 R_f: 81.5
 R_g: 99.2

CRI (Ra): 81.0
 R1: 79.6
 R2: 85.6
 R3: 92.0
 R4: 82.6
 R5: 78.9
 R6: 81.7
 R7: 85.2
 R8: 62.0
 R9: 7.1
 R10: 67.0
 R11: 82.7
 R12: 63.2
 R13: 80.3
 R14: 95.0
 R15: 71.7



Test Conditions

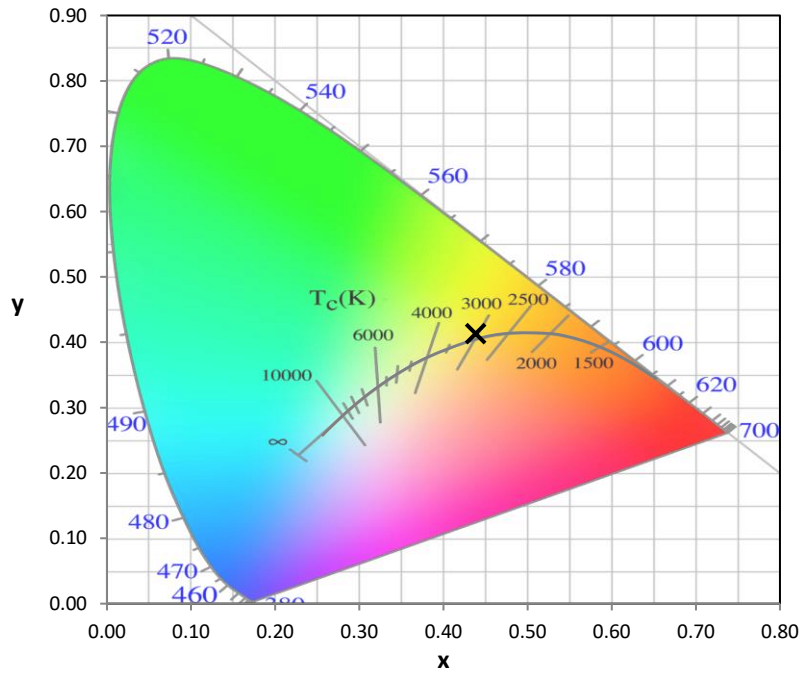
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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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	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



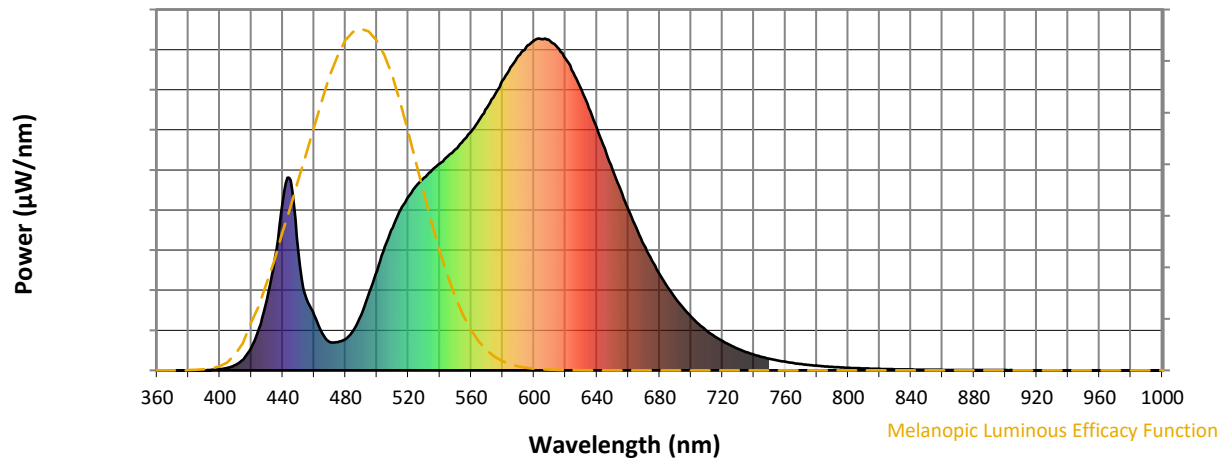
Scotopic Lumens: NR

S/P: 1.27

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	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.32

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	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

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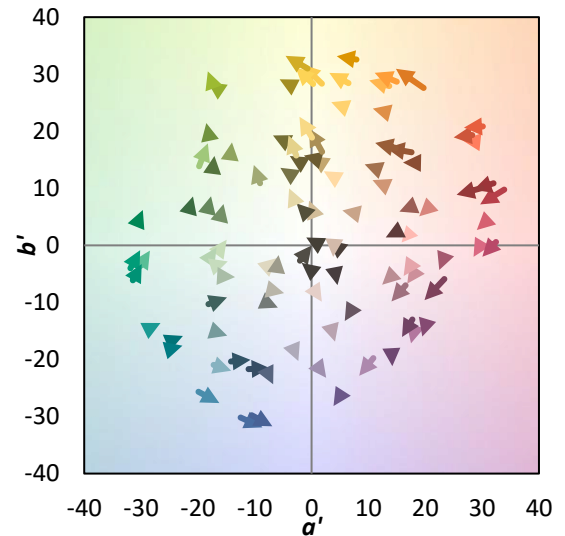
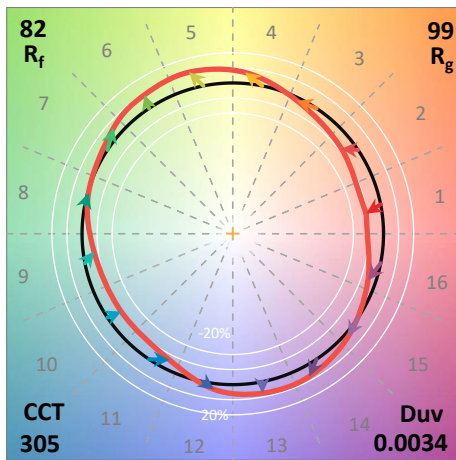
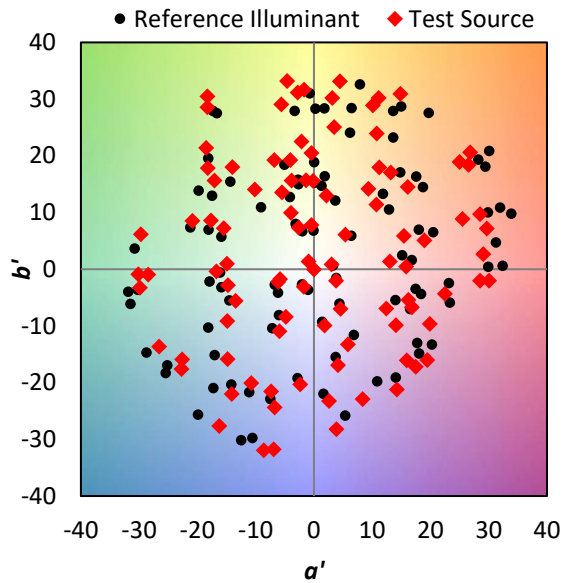
TM-30-18

Summary

$R_f = 81.5$
 $R_g = 99.2$
 $CIE R_a = 81.0$
 $R_9 = 7.1$

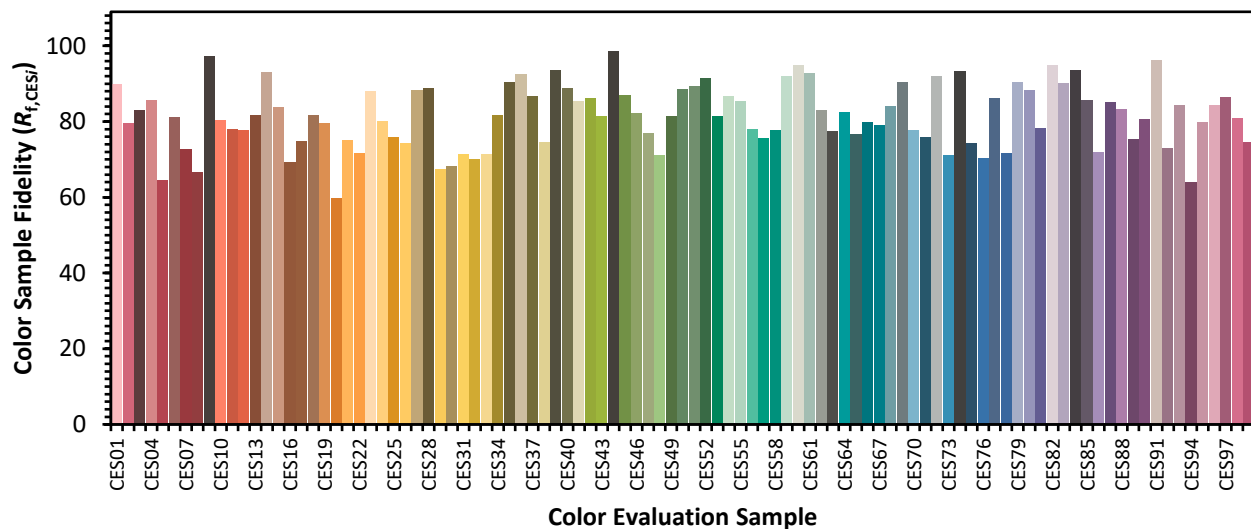


Color Vector Graphics



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

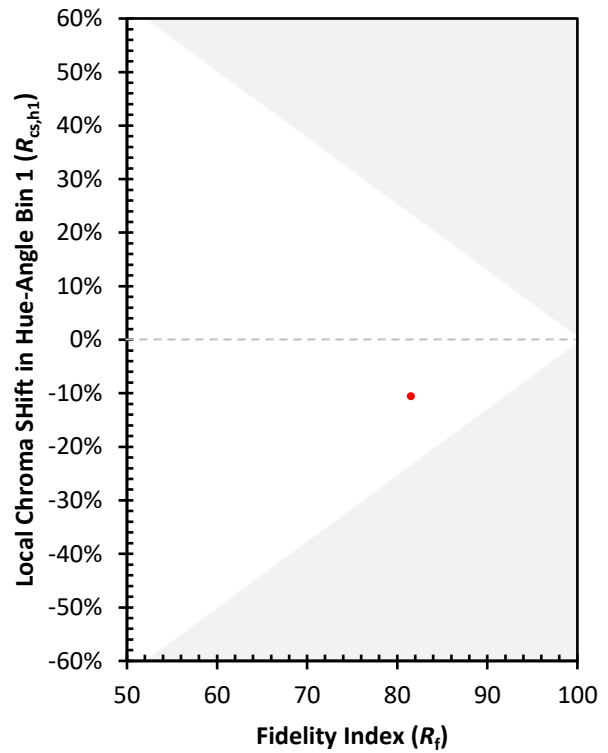
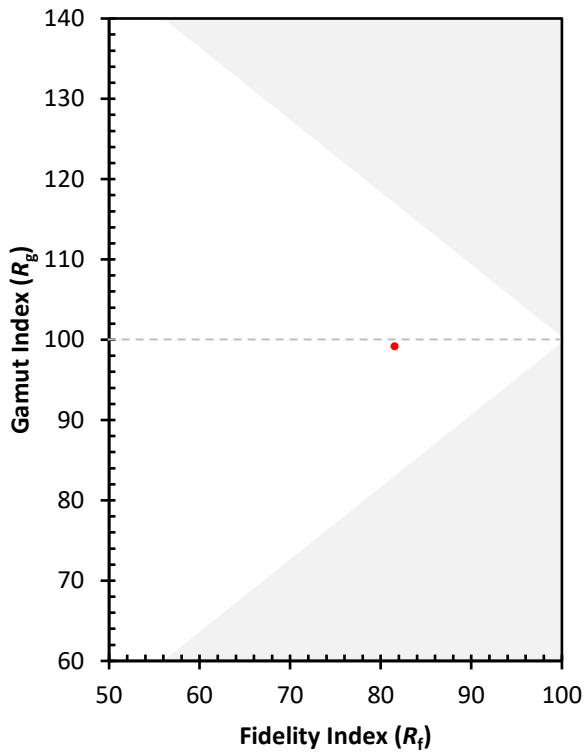
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 94
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 91	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 78	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)