

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: P324631

Luminaire Tested: **GLEON-SA7A-830-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324631
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-SA7A-830-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 19417 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

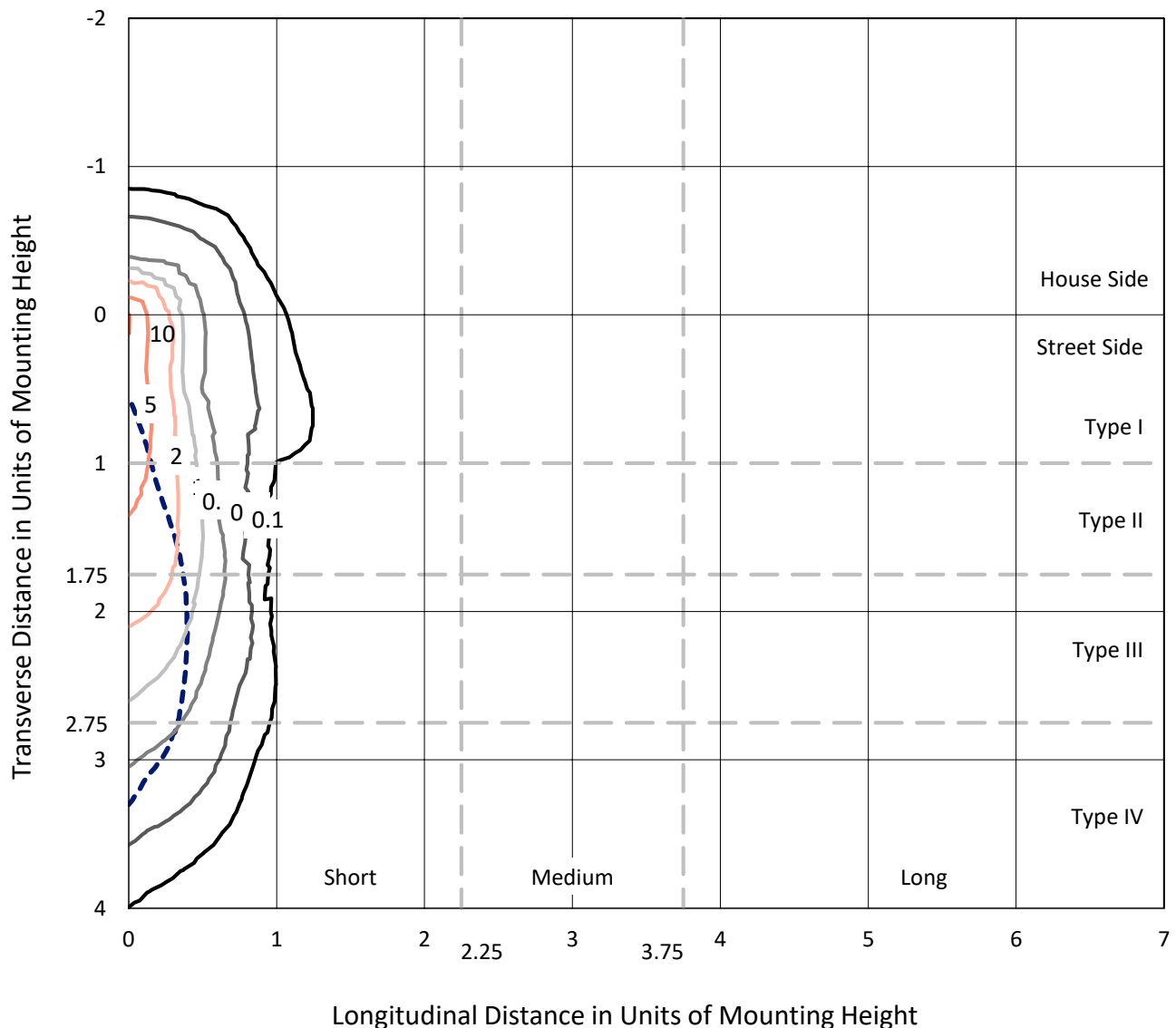
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

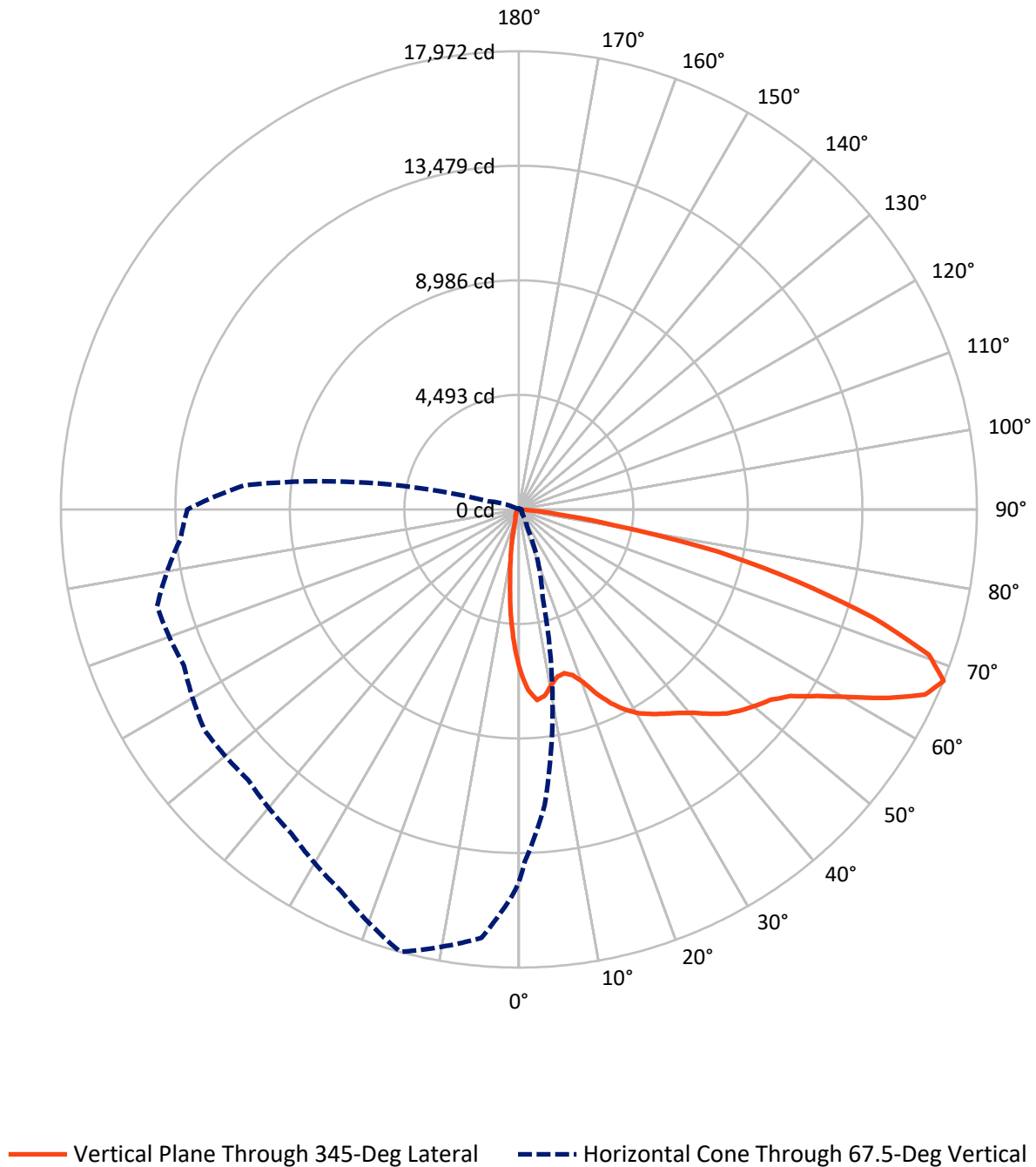
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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	2350.1	0.0	2350.1
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	17066.9	0.0	17066.9
	% Fixture	87.9	0.0	87.9
Total	Lumens	19417.0	0.0	19417.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	485.4	2.5
10°-20°	966.3	5.0
20°-30°	1372.1	7.1
30°-40°	2026.7	10.4
40°-50°	2922.9	15.1
50°-60°	4103.1	21.1
60°-70°	4783.1	24.6
70°-80°	2445.2	12.6
80°-90°	312.3	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°	19417.0	100.0
0°-180°	19417.0	100.0

Coefficient of Utilization



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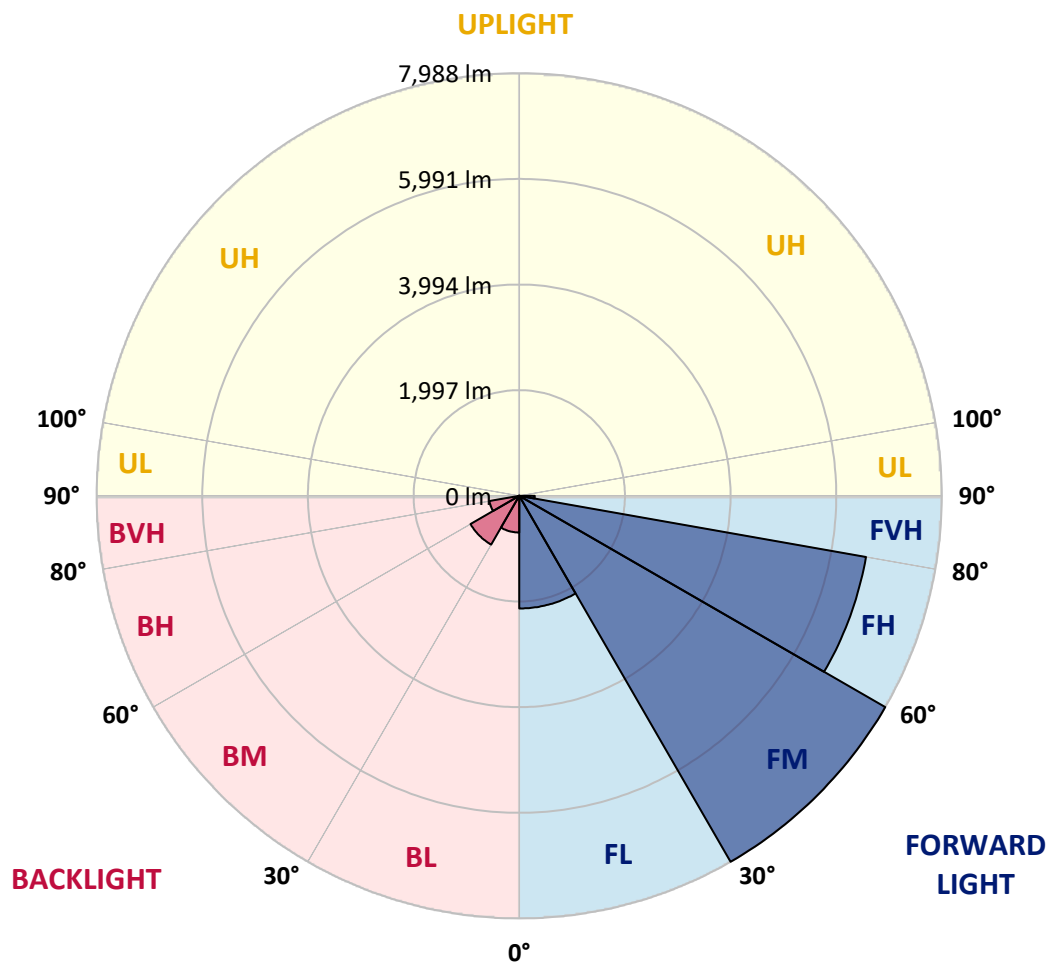
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2129.7	11.0			
FM	(30°-60°)	7988.5	41.1			
FH	(60°-80°)	6655.5	34.3			G3/7500
FVH	(80°-90°)	293.3	1.5			G3/500
BL	(0°-30°)	694.1	3.6	B2/1000		
BM	(30°-60°)	1064.2	5.5	B2/2500		
BH	(60°-80°)	572.8	2.9	B2/1000		G2/1000
BVH	(80°-90°)	19.0	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-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6325.1	6325.1	6325.1	6325.1	6325.1	6325.1	6325.1	6325.1	6325.1	6325.1	6325.1
2.5°	6925.7	6872.4	6813.5	6621.3	6442.8	6238.6	6072.1	5956.2	5810.8	5622.3	5574.4
5°	6876.1	6819.0	6634.1	6206.4	5832.0	5467.7	5116.3	4910.3	4654.6	4395.2	4330.8
7.5°	6376.6	6316.8	6050.0	5464.0	4960.0	4433.8	3977.5	3695.1	3406.3	3169.0	3042.9
10°	5856.8	5791.5	5491.6	4780.6	4159.7	3684.1	3349.3	3079.7	2806.5	2552.6	2350.3
12.5°	5499.0	5413.5	5087.8	4282.0	3741.1	3418.3	3105.5	2782.6	2412.8	2140.5	1917.9
15°	5349.1	5251.6	4907.5	4089.8	3593.0	3214.0	2806.5	2410.1	1976.8	1665.0	1460.8
17.5°	5465.0	5338.0	4969.2	4076.9	3407.2	2891.2	2376.0	1910.6	1440.5	1125.0	979.7
20°	5858.7	5692.2	5224.0	4073.2	3181.8	2507.6	1854.5	1328.3	949.3	763.5	687.1
22.5°	6478.7	6258.8	5590.1	4102.6	2949.1	2104.7	1339.3	902.4	712.9	616.3	571.2
25°	7227.4	6972.6	6117.2	4206.6	2744.9	1712.8	973.2	712.9	601.6	530.8	493.1
27.5°	7939.4	7732.5	6783.1	4356.5	2586.7	1396.4	790.2	604.4	514.2	467.3	436.9
30°	8650.5	8390.2	7466.6	4535.0	2396.3	1182.0	694.5	551.0	460.9	411.2	391.9
32.5°	9167.5	8951.3	8002.0	4663.8	2193.0	1042.2	620.9	504.1	430.5	379.9	351.4
35°	9775.5	9530.8	8461.0	4692.3	2062.4	953.9	558.4	453.5	373.5	328.4	298.0
37.5°	10432.3	10127.8	8990.8	4629.7	1960.3	910.7	511.4	430.5	348.6	302.6	270.4
40°	11159.0	10815.0	9499.5	4539.6	1860.0	896.0	475.6	413.0	329.3	282.4	249.3
42.5°	11924.3	11518.7	9940.2	4444.8	1796.5	845.4	471.9	395.5	314.6	264.0	230.9
45°	12567.3	12156.1	10392.7	4413.6	1751.4	790.2	487.5	383.6	304.5	249.3	217.1
47.5°	13079.7	12690.6	10856.3	4483.5	1725.7	739.6	444.3	399.2	299.0	236.4	205.1
50°	13691.4	13250.8	11509.5	4692.3	1688.0	689.0	402.0	457.2	299.0	228.1	195.0
52.5°	14458.6	14022.6	12238.0	5016.1	1612.5	619.1	361.5	458.1	301.7	217.1	182.1
55°	15423.5	15107.1	13278.4	5371.1	1492.0	516.0	312.8	393.7	290.7	196.9	170.2
57.5°	16348.9	16090.4	14226.8	5614.0	1331.1	402.9	272.3	317.4	265.8	172.9	151.8
59°	16601.9	16319.5	14574.5	5625.0	1210.6	351.4	252.0	262.2	260.3	161.9	140.7
60°	16601.9	16302.0	14674.7	5566.2	1123.2	322.9	239.2	233.6	271.4	154.5	134.3
62.5°	16301.1	15879.8	14349.1	5167.9	916.2	275.0	208.8	193.2	243.8	138.9	118.7
65°	15675.6	15062.0	13239.7	4447.6	816.8	252.0	180.3	158.2	169.3	122.3	103.9
67.5°	14632.4	13800.9	11640.1	3593.0	777.3	245.6	155.5	134.3	127.9	104.9	91.1
70°	12795.4	11872.8	9698.2	2824.9	743.3	242.8	130.6	113.1	103.0	88.3	77.3
72.5°	9312.8	8350.6	6885.3	2208.6	723.0	248.4	104.9	94.7	84.6	69.0	59.8
75°	5327.0	4696.9	3869.9	1458.9	616.3	237.3	80.9	79.1	60.7	49.7	41.4
77.5°	2752.3	2668.6	2319.0	560.2	295.3	103.9	53.4	46.0	35.9	30.4	24.8
80°	1187.6	1174.7	1016.5	161.9	78.2	58.0	30.4	19.3	16.6	12.9	10.1
82.5°	410.3	410.3	361.5	54.3	35.0	28.5	3.7	0.0	0.0	0.0	0.0
85°	82.8	92.9	65.3	0.0	12.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6325.1	6325.1	6325.1	6325.1	6325.1	6325.1	6325.1	6325.1	6325.1	6325.1	6325.1
2.5°	5516.5	5405.2	5397.8	5327.9	5240.5	5201.0	5178.0	5218.4	5268.1	5273.6	5348.1
5°	4282.0	4165.2	4213.9	4089.8	4114.6	4089.8	4049.3	4056.6	4078.7	4009.7	4095.3
7.5°	3007.1	2918.8	2974.9	2941.8	2985.9	3003.4	2978.6	2941.8	2833.2	2820.3	2894.8
10°	2266.6	2166.3	2106.5	2044.0	2057.8	2086.3	2077.1	2050.4	1981.4	1985.1	2056.8
12.5°	1821.3	1709.1	1590.5	1436.8	1399.1	1420.3	1399.1	1383.5	1317.3	1322.8	1386.2
15°	1381.7	1289.7	1165.5	1042.2	975.1	981.5	922.6	881.2	839.8	790.2	828.8
17.5°	932.8	876.6	839.8	803.0	723.0	704.6	630.1	550.1	518.8	495.8	512.4
20°	660.5	630.1	615.4	613.6	567.6	544.6	471.9	422.2	406.6	402.0	412.1
22.5°	551.9	529.8	508.7	496.7	473.7	447.1	391.9	367.0	356.0	350.5	357.8
25°	480.2	463.6	441.5	421.3	412.1	383.6	344.0	325.6	318.3	312.8	316.4
27.5°	426.8	412.1	386.3	373.5	366.1	341.3	307.2	292.5	286.1	284.2	283.3
30°	384.5	370.7	346.8	332.1	319.2	297.1	276.9	262.2	255.7	253.9	252.0
32.5°	342.2	331.2	315.5	300.8	287.0	266.8	249.3	237.3	227.2	225.4	224.4
35°	288.8	277.8	269.5	268.6	255.7	236.4	223.5	207.9	199.6	196.9	197.8
37.5°	256.6	241.9	223.5	230.0	226.3	212.5	195.0	179.4	171.1	169.3	169.3
40°	236.4	220.8	199.6	188.6	199.6	196.9	169.3	153.6	145.3	144.4	142.6
42.5°	217.1	201.5	177.5	159.1	164.7	172.9	146.3	131.5	123.3	121.4	118.7
45°	203.3	186.7	160.1	138.9	127.9	145.3	125.1	106.7	102.1	98.4	96.6
47.5°	190.4	174.8	144.4	120.5	102.1	104.9	100.3	87.4	81.9	78.2	77.3
50°	179.4	162.8	130.6	103.0	84.6	77.3	80.9	69.0	64.4	60.7	58.9
52.5°	166.5	150.9	115.9	89.2	70.8	60.7	61.6	54.3	49.7	46.9	46.0
55°	156.4	140.7	103.9	78.2	62.6	49.7	44.2	42.3	39.6	37.7	36.8
57.5°	142.6	127.9	92.0	66.2	53.4	40.5	34.0	34.0	33.1	31.3	30.4
59°	134.3	121.4	84.6	59.8	48.8	35.0	30.4	31.3	30.4	28.5	27.6
60°	127.9	115.9	79.1	55.2	46.0	32.2	27.6	29.4	28.5	26.7	25.8
62.5°	113.1	104.9	68.1	46.0	40.5	25.8	23.0	24.8	24.8	23.9	23.0
65°	99.3	90.1	58.0	38.6	37.7	22.1	18.4	22.1	23.0	21.2	19.3
67.5°	86.5	77.3	50.6	31.3	35.0	17.5	13.8	18.4	24.8	19.3	17.5
70°	73.6	64.4	39.6	24.8	36.8	12.0	11.0	16.6	29.4	21.2	16.6
72.5°	57.0	49.7	27.6	18.4	39.6	8.3	8.3	13.8	33.1	23.0	15.6
75°	39.6	32.2	16.6	11.0	32.2	5.5	5.5	12.9	31.3	21.2	14.7
77.5°	23.0	17.5	5.5	0.9	16.6	0.0	0.9	9.2	22.1	12.9	6.4
80°	8.3	3.7	0.0	0.0	10.1	0.0	0.0	0.0	1.8	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°	6325.1	6325.1	6325.1	6325.1	6325.1	6325.1	6325.1	6325.1	6325.1	6325.1	6325.1
2.5°	5367.5	5491.6	5603.0	5771.3	5970.9	6200.9	6398.6	6611.1	6810.7	6893.5	6950.6
5°	4112.8	4266.4	4445.7	4693.2	5022.5	5428.2	5808.1	6237.7	6699.4	6930.3	7147.4
7.5°	2907.7	3064.1	3286.7	3549.8	3948.1	4431.0	4927.8	5521.1	6146.6	6511.8	6871.5
10°	2090.9	2283.1	2491.0	2850.7	3255.4	3713.5	4225.0	4887.3	5584.6	5989.3	6422.6
12.5°	1423.0	1642.0	1956.6	2359.5	2835.1	3283.9	3728.2	4360.2	5169.7	5570.8	6035.3
15°	853.6	975.1	1308.1	1774.4	2357.6	2916.9	3403.5	4037.3	4900.2	5391.4	5874.3
17.5°	526.2	582.3	763.5	1146.2	1758.8	2466.2	3133.1	3927.9	4938.8	5536.7	6053.7
20°	419.5	441.5	499.5	677.0	1165.5	1969.4	2828.6	3905.8	5254.3	5990.2	6544.9
22.5°	364.3	385.4	424.1	492.1	733.1	1474.6	2539.8	3926.0	5706.9	6670.0	7317.6
25°	321.0	339.4	376.2	432.3	537.2	1038.5	2230.7	4016.2	6296.5	7513.5	8201.6
27.5°	287.0	302.6	336.7	388.2	460.9	724.9	1880.2	4125.6	6995.6	8376.4	9055.2
30°	255.7	269.5	299.9	347.7	400.1	557.4	1495.7	4200.1	7695.7	9055.2	9665.1
32.5°	229.0	239.2	266.8	307.2	347.7	444.3	1137.0	4188.2	8215.4	9620.0	10103.9
35°	201.5	211.6	235.5	270.4	302.6	367.0	894.1	3964.7	8668.0	10206.0	10606.1
37.5°	171.1	184.0	207.0	238.2	260.3	322.9	723.0	3695.1	9127.0	10875.7	11166.3
40°	145.3	158.2	178.5	212.5	226.3	306.3	555.6	3366.7	9643.0	11624.4	11780.8
42.5°	120.5	132.5	153.6	183.1	213.4	264.0	411.2	2991.4	10138.8	12264.7	12341.0
45°	97.5	109.5	131.5	161.0	228.1	218.9	318.3	2589.4	10539.0	12797.3	12822.1
47.5°	77.3	88.3	111.3	151.8	212.5	174.8	227.2	2273.9	10874.7	13213.1	13147.8
50°	59.8	69.0	92.9	173.9	185.8	144.4	172.0	2169.1	11175.5	13470.6	13301.4
52.5°	46.9	55.2	76.3	162.8	144.4	119.6	144.4	2267.5	11587.6	13684.0	13387.8
55°	37.7	46.0	59.8	92.9	98.4	101.2	123.3	2359.5	12298.7	14184.5	13898.4
57.5°	31.3	39.6	48.8	65.3	74.5	85.5	109.5	2369.6	13136.7	15016.0	14745.6
59°	28.5	35.9	44.2	58.0	65.3	78.2	103.0	2314.4	13432.0	15318.7	15183.4
60°	26.7	34.0	41.4	53.4	60.7	73.6	99.3	2262.0	13444.9	15307.6	15370.2
62.5°	23.0	30.4	36.8	45.1	51.5	62.6	89.2	2067.9	12900.3	14806.3	15257.9
65°	20.2	26.7	33.1	38.6	44.2	56.1	80.9	1713.7	11970.3	13997.7	14489.9
67.5°	18.4	23.0	30.4	34.0	39.6	49.7	71.8	1221.6	10808.5	13008.9	13328.1
70°	16.6	22.1	27.6	31.3	35.9	43.2	61.6	701.9	9127.0	11561.0	11788.2
72.5°	15.6	21.2	24.8	29.4	32.2	38.6	56.1	330.2	6682.9	9261.3	9854.6
75°	13.8	19.3	23.0	27.6	30.4	35.0	47.8	158.2	4444.8	6702.2	7376.5
77.5°	8.3	15.6	21.2	24.8	26.7	30.4	39.6	91.1	2836.9	4638.9	5464.0
80°	0.0	5.5	15.6	21.2	23.0	25.8	30.4	71.8	1517.8	2650.2	3180.9
82.5°	0.0	0.0	11.0	16.6	15.6	17.5	23.0	45.1	684.4	1732.1	1952.0
85°	0.0	0.0	3.7	12.9	11.0	8.3	15.6	15.6	149.9	876.6	1093.7
87.5°	0.0	0.0	0.0	0.9	5.5	3.7	6.4	1.8	0.9	65.3	264.9
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°	325°	335°	345°	355°	359°	360°
0°	6325.1	6325.1	6325.1	6325.1	6325.1	6325.1	6325.1	6325.1	6325.1	6325.1
2.5°	7150.2	7218.2	7333.2	7387.5	7360.8	7247.7	7112.5	6974.5	6893.5	6925.7
5°	7589.9	7940.4	8142.7	8209.9	8097.6	7843.8	7511.7	7073.8	6918.4	6876.1
7.5°	7589.9	8249.4	8667.1	8740.6	8490.4	7992.8	7370.0	6686.6	6459.4	6376.6
10°	7323.1	8220.9	8803.2	8920.0	8570.5	7826.3	6992.0	6211.9	5942.4	5856.8
12.5°	7022.3	7989.1	8602.7	8763.6	8476.6	7660.7	6729.8	5890.9	5573.5	5499.0
15°	6837.4	7703.9	8211.7	8328.5	8207.1	7564.1	6667.2	5794.3	5420.8	5349.1
17.5°	6903.7	7483.2	7666.2	7734.3	7816.2	7530.1	6837.4	6005.9	5533.0	5465.0
20°	7152.9	7250.4	7155.7	7241.2	7462.0	7563.2	7243.1	6517.3	5949.7	5858.7
22.5°	7576.1	7129.9	6864.1	6898.1	7166.7	7672.7	7863.1	7247.7	6592.7	6478.7
25°	8069.1	7227.4	6702.2	6671.8	6947.8	7817.1	8429.7	8042.5	7353.5	7227.4
27.5°	8689.1	7446.4	6669.1	6638.7	6871.5	7952.3	8900.7	8828.0	8154.7	7939.4
30°	9167.5	7661.6	6767.5	6697.6	6947.8	8046.1	9278.8	9494.9	8793.1	8650.5
32.5°	9510.6	7915.5	6927.6	6826.4	7163.1	8208.0	9570.4	10105.7	9383.6	9167.5
35°	9771.8	8191.5	7186.1	7019.6	7459.3	8453.6	9843.6	10756.1	10011.9	9775.5
37.5°	10016.5	8578.7	7589.9	7391.2	7923.8	8849.2	10132.4	11493.8	10714.7	10432.3
40°	10357.8	9017.5	8212.6	8036.0	8704.8	9388.2	10493.0	12262.8	11514.1	11159.0
42.5°	10699.1	9488.5	8850.1	8897.9	9678.9	10043.2	10958.5	13076.0	12303.3	11924.3
45°	11010.9	9974.2	9758.0	9978.8	10583.1	10761.6	11421.2	13546.1	12933.4	12567.3
47.5°	11288.7	10581.3	10660.4	11248.2	11611.6	11412.0	11767.0	13951.7	13402.6	13079.7
50°	11611.6	11366.9	11849.8	12681.4	12795.4	12000.7	12081.6	14431.9	13950.8	13691.4
52.5°	11964.8	12194.8	13167.1	13900.2	13863.4	12640.0	12398.1	14970.0	14702.3	14458.6
55°	12365.9	12863.5	14327.0	15040.9	15009.6	13353.8	12922.4	15635.1	15644.3	15423.5
57.5°	12961.0	13439.4	15114.4	15963.5	16015.9	14178.0	13811.0	16380.2	16496.1	16348.9
59°	13387.8	13812.8	15426.3	16348.9	16562.3	14815.5	14460.4	16812.5	16736.2	16601.9
60°	13704.3	14050.2	15580.8	16550.4	16879.7	15247.8	14939.7	17066.4	16764.7	16601.9
62.5°	14487.1	14567.1	15859.5	16778.5	17244.9	16208.2	16288.2	17498.8	16566.9	16301.1
65°	14852.3	14893.7	15855.9	16370.1	16891.6	16956.0	17511.6	17511.6	16084.0	15675.6
67.5°	14699.6	14500.0	15069.4	15016.0	15536.7	16511.7	17971.6	16869.6	15160.4	14632.4
70°	13457.8	12689.7	12436.7	12459.7	12858.0	14362.0	17060.9	14980.1	13412.7	12795.4
72.5°	11197.6	9355.1	8730.5	9443.4	9547.4	11037.6	14539.5	11281.3	9891.4	9312.8
75°	9006.5	6594.6	5579.0	6331.5	6508.1	8077.4	11247.3	7026.0	5777.7	5327.0
77.5°	6470.4	4733.7	4003.3	3950.9	4179.0	5122.8	7980.8	3536.0	2949.1	2752.3
80°	3675.8	3115.6	3354.8	3165.3	3280.3	3203.0	3791.7	1550.9	1270.3	1187.6
82.5°	2218.7	1841.6	1994.3	1660.4	2101.0	1829.6	1460.8	496.7	431.4	410.3
85°	1443.3	1006.3	524.3	351.4	723.9	1169.2	326.6	135.2	103.9	82.8
87.5°	497.7	256.6	25.8	11.0	77.3	218.0	12.0	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

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
 Rf: 81.5
 Rg: 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

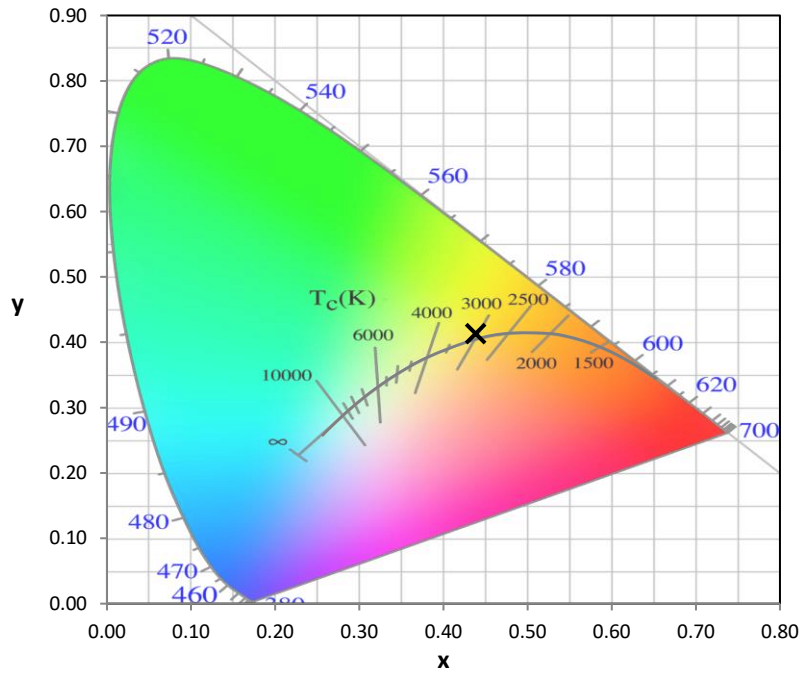
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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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 ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /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			

REPORT NUMBER: SP1-2408-195-9

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

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

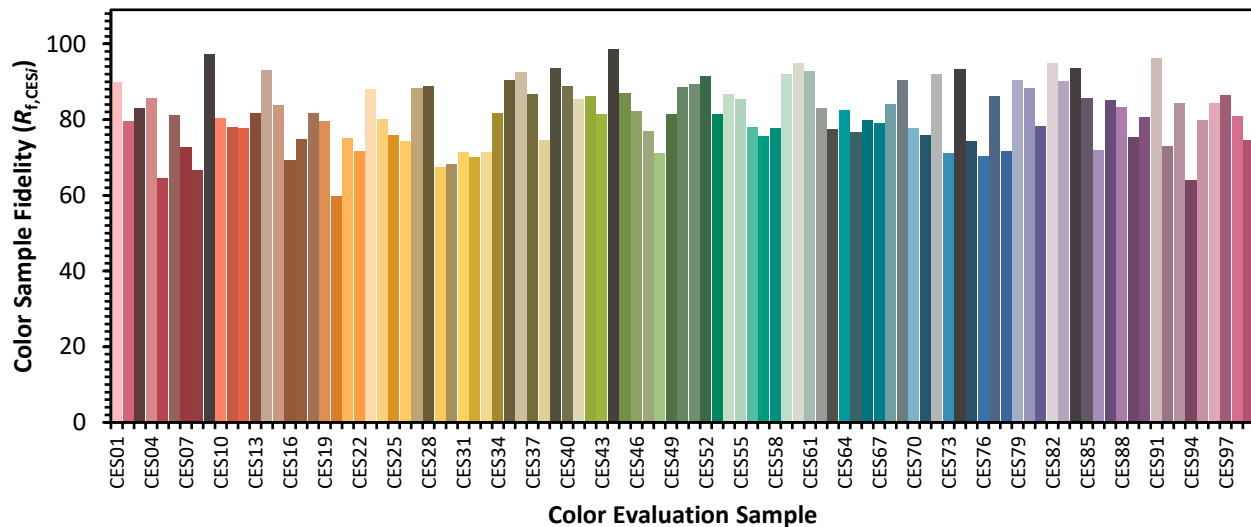


Color Vector Graphics



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)