

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: McGRAW-EDISON

Report Number: P386950

Luminaire Tested: **GPC-SA2C-830-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P386950
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GPC-SA2C-830-U-SLL-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8695 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

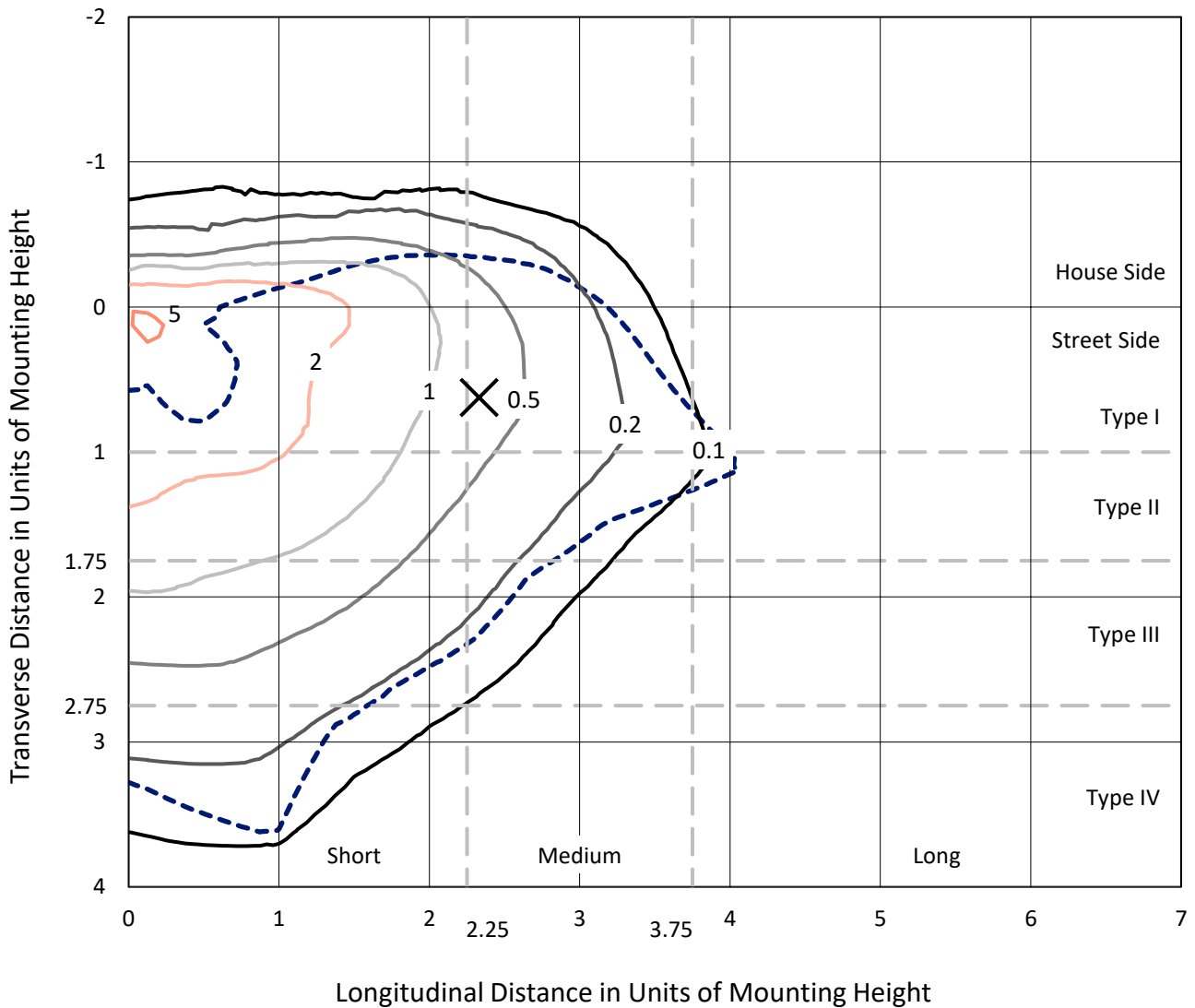
Input Watts (W): 111
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

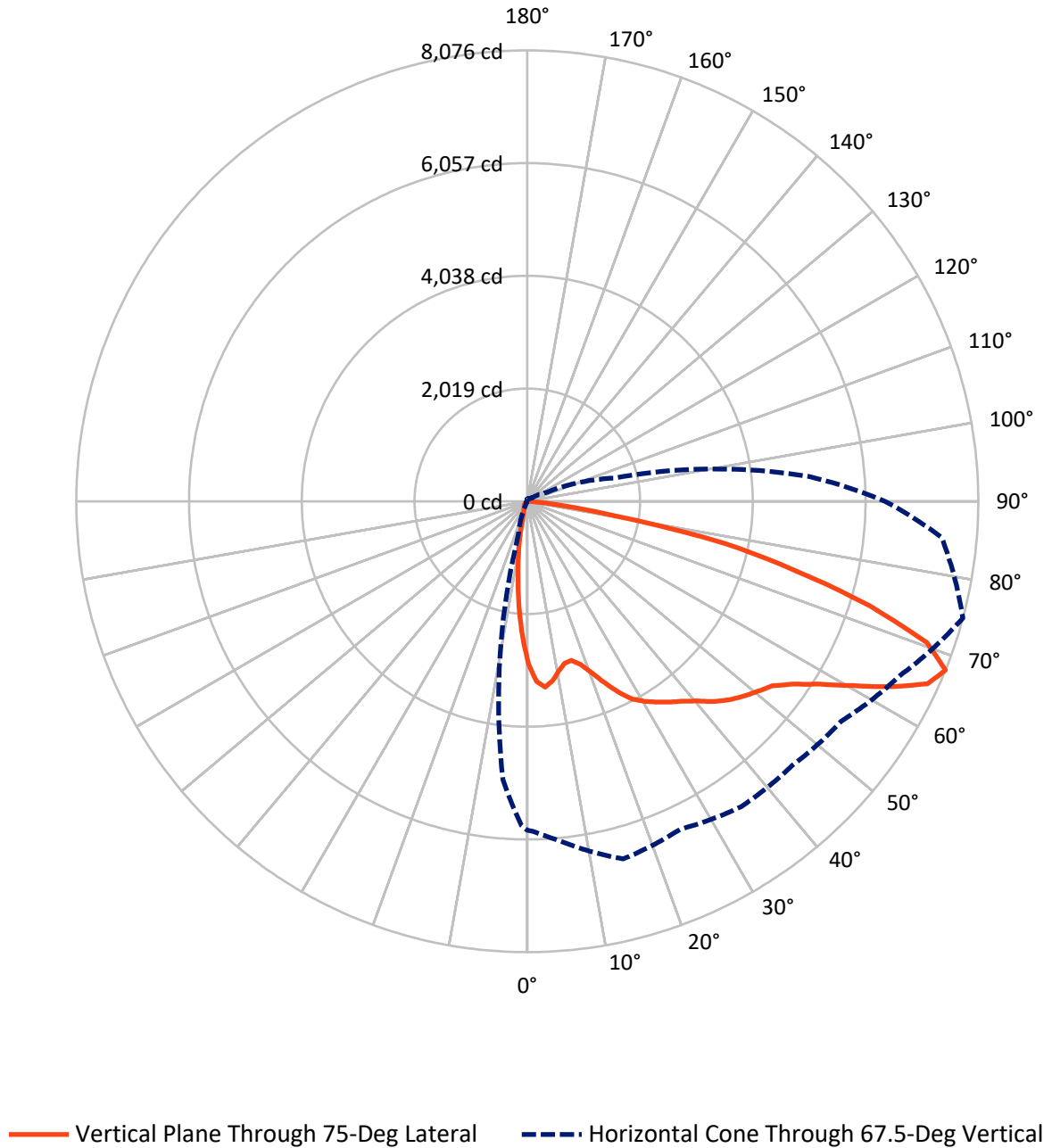
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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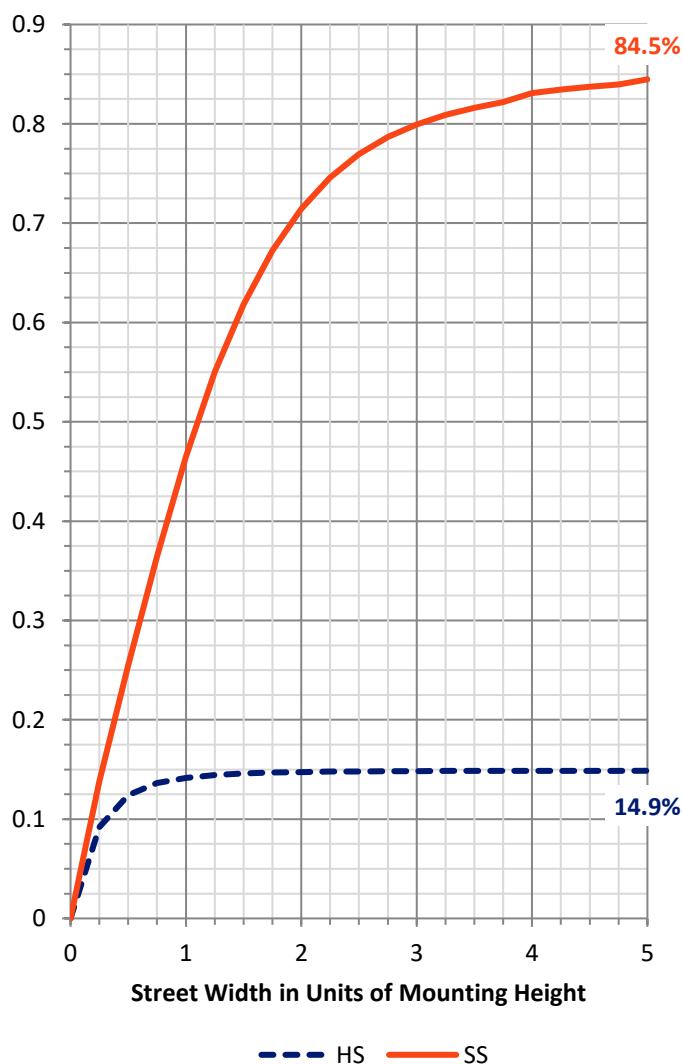
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1304.8	0.0	1304.8
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	7390.2	0.0	7390.2
	% Fixture	85.0	0.0	85.0
Total	Lumens	8695.0	0.0	8695.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.3	2.5
10°-20°	435.7	5.0
20°-30°	616.4	7.1
30°-40°	906.2	10.4
40°-50°	1302.6	15.0
50°-60°	1833.7	21.1
60°-70°	2141.5	24.6
70°-80°	1092.5	12.6
80°-90°	145.1	1.7
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°	8695.0	100.0
0°-180°	8695.0	100.0

Coefficient of Utilization



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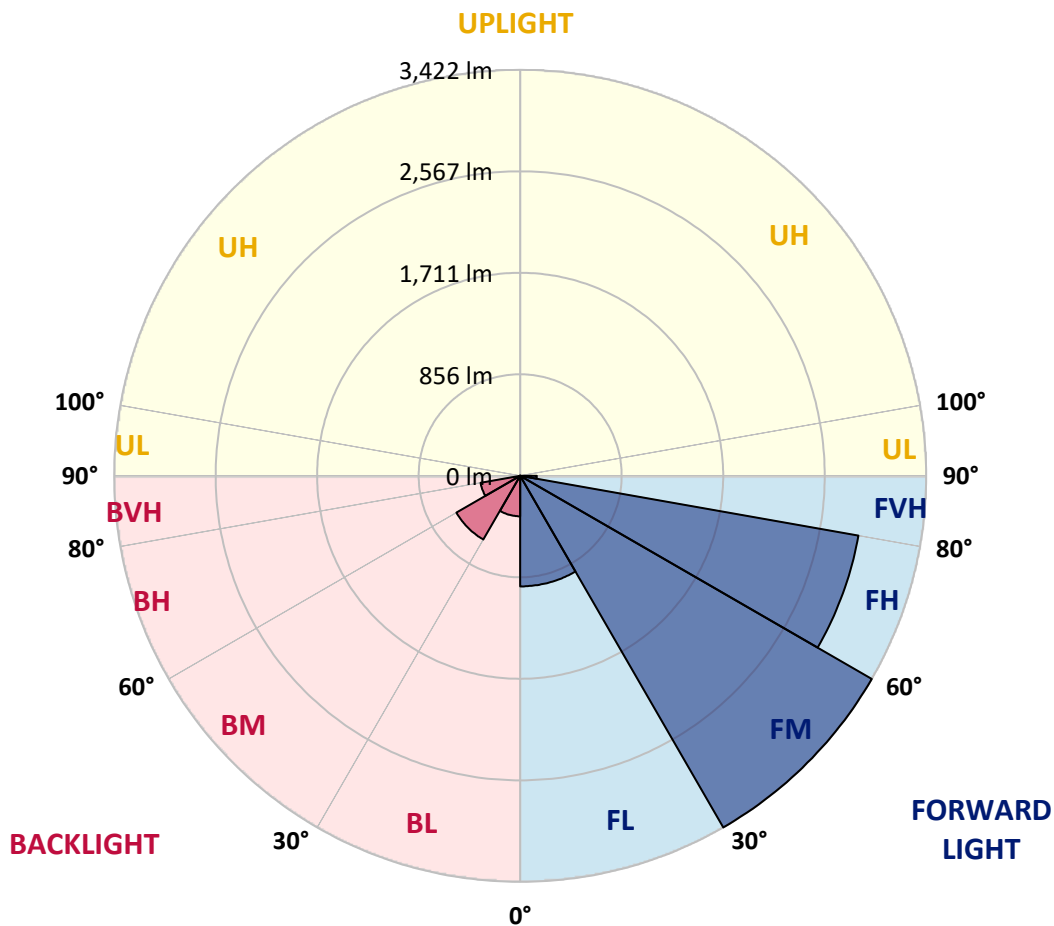
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	932.1	10.7			
FM (30°-60°)	3422.2	39.4			
FH (60°-80°)	2895.2	33.3			G2/5000
FVH (80°-90°)	140.7	1.6			G2/225
BL (0°-30°)	341.2	3.9	B1/500		
BM (30°-60°)	620.2	7.1	B1/1000		
BH (60°-80°)	338.9	3.9	B1/500		G1/500
BVH (80°-90°)	4.4	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2917.0	2917.0	2917.0	2917.0	2917.0	2917.0	2917.0	2917.0	2917.0	2917.0	2917.0
2.5°	3162.1	3167.0	3192.6	3251.9	3316.6	3321.5	3365.2	3320.3	3305.0	3232.5	3157.6
5°	3186.0	3204.9	3292.7	3466.9	3618.1	3666.7	3701.3	3613.1	3520.4	3343.3	3154.3
7.5°	2993.6	3025.4	3163.3	3490.4	3760.6	3880.0	3902.7	3764.7	3537.7	3246.1	2961.9
10°	2747.3	2783.6	2950.0	3352.0	3723.1	3927.8	3959.1	3778.3	3452.1	3088.8	2753.9
12.5°	2548.0	2590.4	2760.5	3196.3	3594.2	3820.7	3882.5	3732.6	3377.9	2977.2	2611.8
15°	2456.1	2504.7	2683.5	3095.8	3451.2	3629.6	3680.7	3616.0	3336.7	2959.4	2578.9
17.5°	2508.8	2561.6	2746.1	3104.4	3317.0	3393.2	3434.4	3460.7	3336.7	3066.1	2675.2
20°	2725.1	2781.9	2977.2	3192.2	3205.8	3177.3	3221.4	3314.1	3375.5	3268.8	2906.7
22.5°	3024.1	3090.8	3311.2	3342.5	3151.4	3043.9	3049.7	3195.1	3445.9	3525.8	3228.0
25°	3388.6	3470.2	3694.3	3566.6	3174.0	2964.4	2962.3	3097.0	3514.7	3783.2	3585.9
27.5°	3750.7	3840.5	4037.4	3840.1	3267.5	2950.0	2945.9	3067.4	3581.8	4012.2	3976.8
30°	4054.3	4141.6	4311.3	4038.2	3368.5	2983.8	2964.0	3099.1	3621.8	4160.9	4261.9
32.5°	4301.4	4371.4	4508.6	4174.5	3476.4	3049.2	3006.4	3183.9	3689.7	4286.6	4523.8
35°	4573.2	4647.0	4701.8	4304.3	3597.5	3143.6	3082.2	3318.6	3794.4	4414.3	4810.9
37.5°	4883.4	4956.7	4950.1	4422.9	3751.1	3299.7	3260.5	3532.0	3957.1	4540.7	5131.4
40°	5187.0	5261.9	5208.4	4552.6	3931.5	3557.1	3528.3	3852.4	4174.9	4702.6	5507.0
42.5°	5471.2	5552.3	5437.8	4675.4	4146.5	3881.7	3931.1	4265.1	4447.6	4901.9	5830.8
45°	5700.2	5783.0	5630.2	4794.8	4373.1	4275.4	4424.1	4722.3	4775.5	5070.4	6049.5
47.5°	5866.6	5944.8	5763.6	4914.3	4663.0	4756.9	5016.0	5201.8	5071.6	5216.6	6204.8
50°	5972.9	6033.8	5802.7	5063.8	5043.6	5318.8	5632.6	5723.2	5350.5	5348.4	6393.4
52.5°	6040.4	6068.0	5831.6	5219.9	5440.7	5930.4	6236.5	6264.9	5637.6	5493.4	6647.5
55°	6273.1	6295.4	6035.9	5409.0	5769.0	6466.3	6782.6	6756.3	5962.6	5777.2	6947.4
57.5°	6670.2	6693.7	6458.1	5680.8	6034.6	6797.5	7178.5	7225.8	6343.6	6175.9	7268.7
60°	6869.5	6913.2	6829.2	6025.2	6292.1	7009.2	7448.3	7599.4	6819.7	6701.5	7580.1
62.5°	6688.7	6752.2	6874.1	6407.0	6547.9	7125.7	7532.3	7733.3	7307.4	7314.0	7772.0
65°	6327.9	6378.6	6585.3	6616.2	6696.1	7111.3	7324.7	7546.3	7606.0	7876.6	7761.7
67.5°	5892.1	5911.1	6086.5	6632.7	6481.1	6678.0	6701.1	6865.0	7370.0	8076.0	7449.9
70°	5264.8	5275.1	5428.3	6081.2	5569.6	5612.9	5578.7	5612.0	6336.1	7590.4	6662.8
72.5°	4237.1	4263.1	4481.0	5050.2	4057.6	3932.8	4201.3	4186.5	4879.7	6412.8	4948.5
75°	3119.7	3164.6	3493.7	4067.9	2847.8	2576.0	2772.0	2824.3	3469.0	4960.4	3094.5
77.5°	2184.3	2217.6	2536.4	2990.3	2061.1	1842.0	1771.1	1833.3	2289.7	3588.4	1559.0
80°	1258.3	1270.7	1474.2	1726.7	1388.9	1589.1	1439.6	1482.4	1372.0	1596.5	670.6
82.5°	823.4	825.4	904.9	1027.7	865.0	1005.0	743.9	951.1	844.0	641.3	218.3
85°	444.8	447.3	524.8	729.5	489.7	276.8	162.7	334.0	521.9	147.0	59.7
87.5°	49.0	44.9	158.2	265.3	135.9	25.1	8.6	37.5	83.6	9.5	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°	2917.0	2917.0	2917.0	2917.0	2917.0	2917.0	2917.0	2917.0	2917.0	2917.0	2917.0
2.5°	3119.3	3085.1	2999.8	2909.6	2837.1	2769.2	2700.8	2617.2	2552.5	2539.3	2517.9
5°	3052.5	2944.2	2765.4	2585.9	2441.3	2258.8	2143.1	2052.9	1964.7	1959.4	1941.7
7.5°	2819.4	2676.9	2425.2	2176.9	1973.4	1799.6	1624.1	1506.7	1414.4	1381.9	1362.5
10°	2595.3	2435.1	2120.8	1837.5	1655.8	1502.2	1378.6	1255.9	1144.6	1068.0	1033.4
12.5°	2438.8	2261.7	1915.3	1671.0	1540.9	1395.1	1244.3	1091.1	963.0	870.7	814.3
15°	2378.3	2189.2	1846.5	1605.1	1444.5	1260.0	1067.2	892.2	750.1	666.4	615.8
17.5°	2450.3	2230.4	1841.2	1524.8	1300.3	1070.9	858.0	651.2	517.3	453.9	421.4
20°	2633.2	2361.4	1839.1	1426.4	1129.0	846.9	581.2	428.4	347.2	311.8	296.6
22.5°	2891.9	2528.6	1855.6	1329.2	950.6	605.1	401.2	314.7	273.1	254.1	245.5
25°	3224.7	2763.4	1902.1	1241.0	783.0	451.4	312.6	263.6	234.4	219.5	213.4
27.5°	3579.3	3033.6	1974.6	1164.4	646.7	360.0	267.7	225.7	204.7	194.4	188.6
30°	3871.8	3346.6	2047.9	1079.2	547.8	313.9	245.1	205.9	181.6	175.1	169.7
32.5°	4127.6	3583.5	2099.8	1002.1	483.2	278.9	221.6	184.1	167.6	154.9	149.1
35°	4392.4	3780.8	2098.2	948.2	438.7	252.5	201.8	164.8	145.0	130.2	125.6
37.5°	4679.1	4003.6	2062.3	902.0	419.3	231.5	190.7	154.5	134.7	119.9	114.1
40°	5014.8	4237.6	2025.7	858.8	414.0	214.6	182.9	146.2	125.2	110.8	105.0
42.5°	5341.8	4448.4	1993.6	826.7	390.9	214.2	175.9	140.0	117.8	103.8	97.2
45°	5603.4	4644.9	1987.4	807.3	366.6	221.6	172.2	135.9	112.0	98.0	91.9
47.5°	5820.9	4858.3	2026.9	793.7	343.5	202.2	181.2	133.0	106.7	93.1	86.1
50°	6079.5	5120.2	2120.0	771.5	319.2	182.1	207.6	133.9	102.1	88.1	80.7
52.5°	6440.4	5482.7	2256.8	734.0	285.9	163.5	204.3	134.7	97.2	82.8	75.4
55°	6844.8	5935.4	2403.8	671.8	239.3	139.2	175.1	128.9	87.7	77.0	70.0
57.5°	7269.9	6346.0	2491.1	597.7	190.3	120.3	140.0	117.4	77.4	69.2	64.7
60°	7336.6	6502.1	2451.2	506.6	151.2	104.6	103.8	119.4	69.2	61.0	57.7
62.5°	7170.6	6306.1	2258.0	425.5	126.5	91.9	85.3	104.2	62.6	54.4	51.1
65°	6851.4	5776.0	1945.0	383.5	117.4	78.7	70.8	73.3	54.8	47.4	44.5
67.5°	6407.4	5068.3	1596.9	359.6	116.2	67.6	60.5	55.6	47.4	41.2	38.7
70°	5499.6	4222.3	1274.0	346.4	112.9	56.8	51.1	45.3	39.5	35.0	33.0
72.5°	4047.7	2992.0	991.0	332.0	113.7	45.3	44.5	37.5	31.7	27.2	26.4
75°	2338.7	1709.4	650.0	269.0	108.3	35.0	37.1	26.4	22.2	18.9	18.9
77.5°	1246.4	1042.5	247.5	112.0	39.5	22.2	21.0	15.7	14.0	11.5	11.1
80°	543.3	458.8	74.6	31.3	21.8	11.9	7.8	7.0	6.2	4.9	4.5
82.5°	192.4	166.0	24.3	15.2	9.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	43.7	31.3	0.0	3.7	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°	2917.0	2917.0	2917.0	2917.0	2917.0	2917.0	2917.0	2917.0	2917.0	2917.0	2917.0
2.5°	2474.2	2465.2	2411.6	2413.7	2423.2	2436.8	2404.6	2419.5	2459.4	2497.7	2512.1
5°	1913.2	1915.3	1882.8	1902.9	1921.1	1933.4	1881.5	1882.3	1914.1	1957.3	1980.0
7.5°	1348.1	1344.8	1346.5	1394.7	1428.9	1404.1	1423.5	1356.4	1360.5	1391.4	1368.3
10°	1002.1	956.8	931.3	967.5	1005.0	991.4	958.1	936.2	951.5	985.7	983.2
12.5°	787.5	722.5	684.2	658.2	689.1	663.6	662.7	643.8	623.2	626.9	681.7
15°	592.3	544.9	499.6	458.0	457.2	448.6	404.5	355.1	350.9	353.4	381.8
17.5°	407.4	391.3	372.8	336.9	327.5	291.2	248.4	228.6	218.7	223.2	232.7
20°	286.3	280.1	282.1	262.8	249.2	214.6	189.5	181.6	180.0	184.5	189.1
22.5°	237.3	226.1	224.9	216.2	202.7	177.5	163.9	159.4	157.3	161.5	164.8
25°	207.6	196.5	191.9	186.6	172.2	154.9	146.6	142.5	140.5	142.9	145.0
27.5°	182.9	172.6	168.5	164.8	150.8	138.4	131.8	128.1	126.5	127.3	129.3
30°	164.3	155.3	149.9	145.4	133.5	124.8	119.0	115.3	113.7	113.7	115.7
32.5°	145.0	140.0	135.1	129.3	118.2	112.4	106.7	102.6	100.9	101.3	103.0
35°	120.7	119.0	120.3	114.9	105.4	100.5	94.7	90.2	89.0	89.4	91.0
37.5°	107.1	99.7	104.2	101.3	96.0	89.4	82.0	77.8	75.8	77.0	77.8
40°	98.4	89.4	86.1	89.0	88.1	77.4	70.8	66.7	65.1	65.5	66.3
42.5°	91.0	80.3	72.9	72.5	77.4	67.6	60.5	56.8	54.8	54.8	55.6
45°	84.0	72.5	63.4	56.4	65.1	57.3	50.7	47.4	44.9	44.9	45.3
47.5°	78.7	65.9	55.2	46.1	49.0	47.0	41.6	38.3	35.8	35.8	36.2
50°	73.7	59.3	47.8	38.7	36.7	38.7	33.8	30.1	28.4	28.0	28.8
52.5°	68.4	52.7	40.8	33.0	28.8	29.2	26.4	23.9	21.8	21.8	22.7
55°	63.0	47.4	35.4	28.0	23.9	21.8	21.0	19.4	17.7	17.7	18.5
57.5°	57.7	41.6	30.1	23.1	18.9	17.3	17.3	16.1	14.8	14.8	15.7
60°	52.7	35.8	24.7	18.9	14.8	14.4	14.8	13.6	12.8	12.8	13.6
62.5°	47.0	30.5	20.2	15.7	11.9	11.5	12.8	11.9	11.1	11.1	11.9
65°	40.0	25.9	16.1	11.9	9.1	9.1	10.7	9.9	9.1	9.1	9.9
67.5°	33.8	21.8	12.4	8.6	6.6	7.0	9.1	8.2	7.8	7.8	8.6
70°	28.0	16.9	8.6	5.4	3.7	5.4	7.0	7.0	7.0	7.0	7.8
72.5°	21.0	11.5	4.9	2.1	1.6	3.7	5.8	6.6	6.2	6.2	7.4
75°	13.6	6.6	1.6	0.0	0.0	2.1	4.5	5.4	5.4	4.9	6.2
77.5°	7.8	2.1	0.0	0.0	0.0	0.0	2.9	2.5	2.1	1.6	2.9
80°	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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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 CATALOG NUMBER: GPC-SA2C-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2917.0	2917.0	2917.0	2917.0	2917.0	2917.0	2917.0	2917.0	2917.0	2917.0
2.5°	2570.2	2618.8	2687.2	2759.7	2871.3	2959.9	3046.8	3121.3	3150.2	3162.1
5°	2034.3	2105.6	2205.7	2334.2	2535.6	2716.8	2900.5	3085.5	3165.8	3186.0
7.5°	1459.7	1550.8	1678.1	1839.1	2075.1	2309.9	2566.5	2837.9	2962.3	2993.6
10°	1080.4	1191.6	1337.4	1507.1	1732.4	1973.8	2253.5	2563.6	2705.7	2747.3
12.5°	766.5	916.9	1112.1	1318.5	1513.7	1729.1	2012.1	2354.0	2503.1	2548.0
15°	450.2	595.6	826.7	1103.0	1353.1	1571.4	1858.9	2246.5	2410.8	2456.1
17.5°	258.3	330.7	505.4	813.5	1152.9	1455.2	1810.7	2273.2	2466.8	2508.8
20°	197.3	220.4	291.2	523.9	918.9	1341.1	1810.7	2424.8	2663.3	2725.1
22.5°	172.6	189.5	218.3	312.6	676.3	1218.8	1831.7	2643.9	2955.7	3024.1
25°	153.2	168.5	193.2	235.2	461.3	1073.4	1881.5	2912.9	3300.1	3388.6
27.5°	137.2	151.6	173.8	205.9	315.5	897.9	1948.7	3228.4	3679.8	3750.7
30°	122.7	136.3	156.5	179.2	243.4	699.0	2005.9	3525.8	3978.1	4054.3
32.5°	109.2	121.5	139.6	156.5	199.4	516.9	2012.1	3761.4	4225.6	4301.4
35°	96.4	107.5	124.0	137.2	165.2	408.2	1916.1	3965.7	4473.2	4573.2
37.5°	84.0	94.7	109.2	119.0	145.4	332.8	1769.5	4193.5	4790.7	4883.4
40°	72.5	82.0	96.8	103.4	137.6	255.8	1610.1	4432.4	5102.1	5187.0
42.5°	61.8	70.8	85.3	98.0	120.7	191.1	1437.9	4656.4	5382.2	5471.2
45°	51.5	61.0	75.4	103.8	100.1	142.9	1253.8	4805.1	5603.4	5700.2
47.5°	41.6	52.3	72.1	98.9	79.9	105.0	1108.0	4946.0	5771.0	5866.6
50°	33.4	44.1	81.1	88.1	65.5	80.3	1047.0	5072.0	5881.0	5972.9
52.5°	27.2	37.1	76.6	67.6	54.8	66.3	1080.0	5276.3	5982.7	6040.4
55°	22.7	29.2	46.1	47.0	46.5	56.4	1120.8	5569.6	6245.9	6273.1
57.5°	19.8	23.5	32.1	36.2	39.1	50.3	1121.6	5990.6	6653.3	6670.2
60°	16.9	20.6	26.8	29.2	33.8	44.9	1080.8	6137.6	6813.5	6869.5
62.5°	14.8	18.1	22.2	24.3	28.4	40.4	985.2	5924.7	6593.6	6688.7
65°	13.2	16.5	18.5	20.6	25.1	36.2	827.9	5498.8	6228.6	6327.9
67.5°	11.5	14.4	16.5	18.5	22.7	32.1	609.6	5004.1	5809.7	5892.1
70°	10.3	12.8	14.8	16.5	19.8	27.2	369.9	4246.2	5230.6	5264.8
72.5°	9.9	11.5	13.6	14.8	17.3	23.9	187.4	3120.5	4181.5	4237.1
75°	8.6	10.3	12.4	13.2	15.2	20.6	76.2	2049.6	3030.3	3119.7
77.5°	7.0	9.5	11.1	11.9	13.2	16.9	38.7	1309.8	2126.6	2184.3
80°	2.5	7.0	9.5	9.9	11.1	12.4	25.5	717.1	1233.6	1258.3
82.5°	0.0	4.5	7.4	7.0	7.8	9.5	16.5	341.0	814.3	823.4
85°	0.0	2.1	5.8	4.5	3.3	6.6	5.8	74.6	427.1	444.8
87.5°	0.0	0.0	0.4	2.1	1.6	2.5	0.8	0.4	38.7	49.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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



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

REPORT NUMBER: SP1-2408-195-9

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			

REPORT NUMBER: SP1-2408-195-9

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 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			

Summary

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



Color Vector Graphics

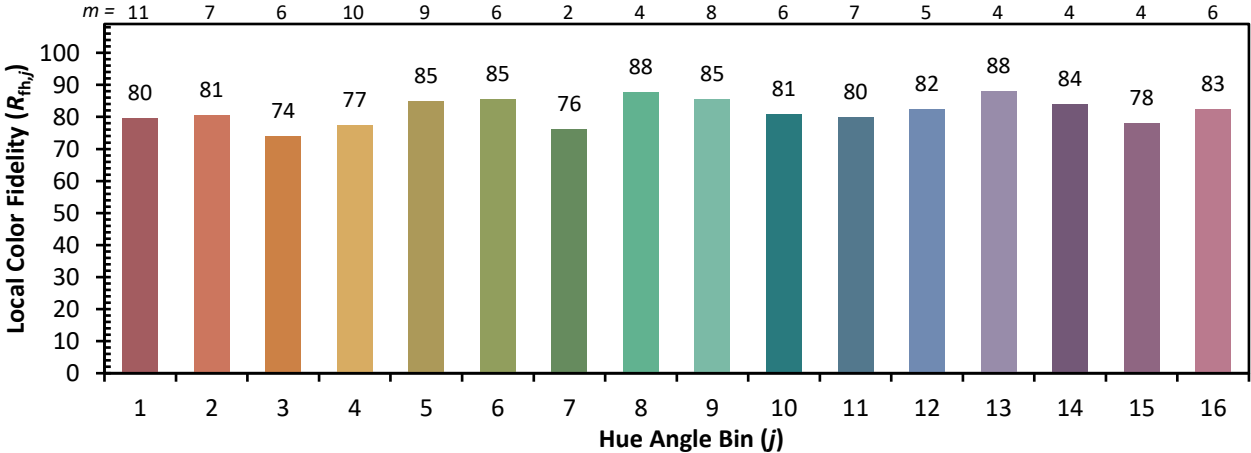


Individual Sample Fidelity Index ($R_{f,i}$)

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)