

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: P324340

Luminaire Tested: **GLEON-SA6D-830-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324340
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: GLEON-SA6D-830-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1200mA 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: 27339 lumens
Efficiency: N/A
Efficacy: 71.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

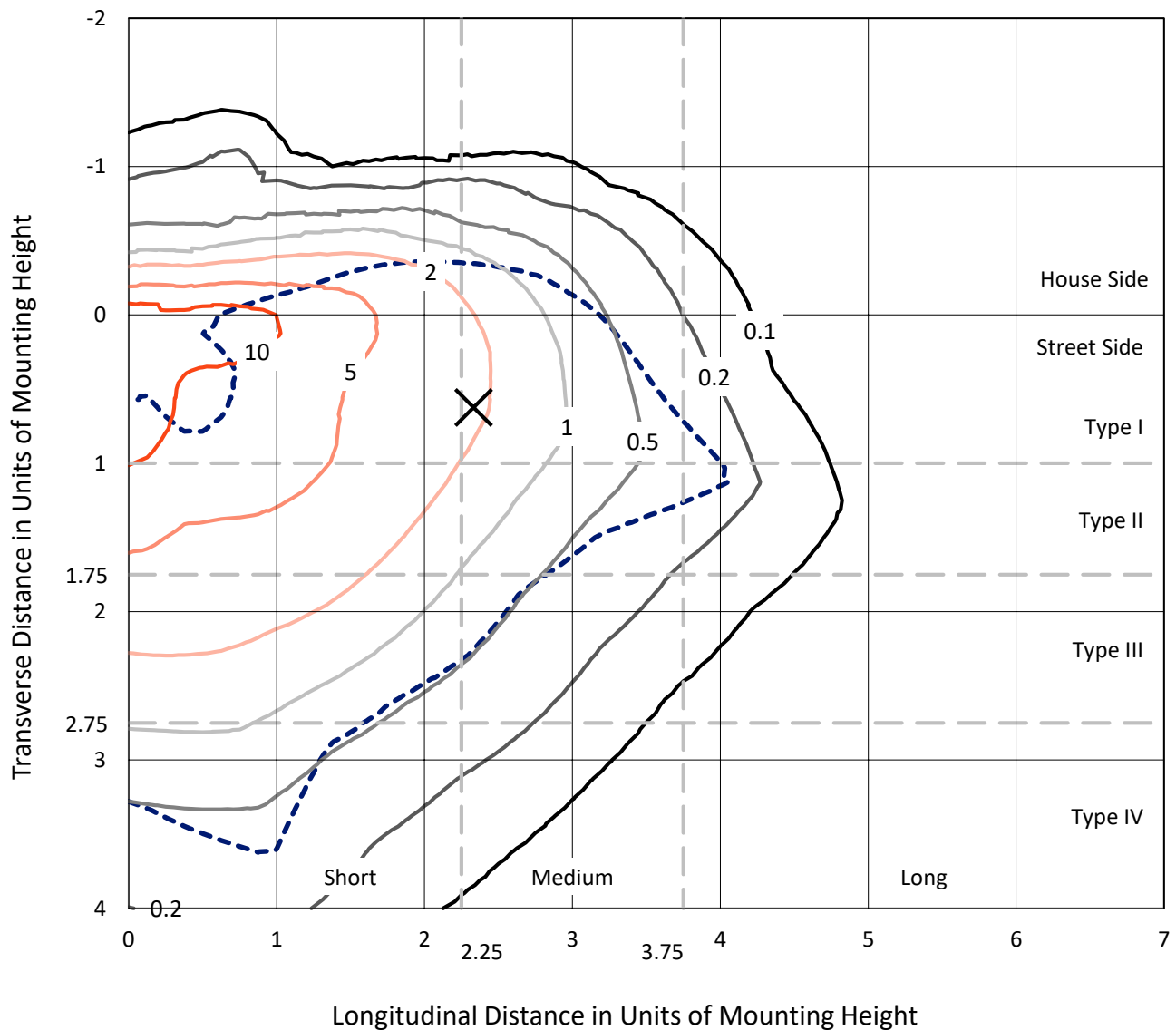
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

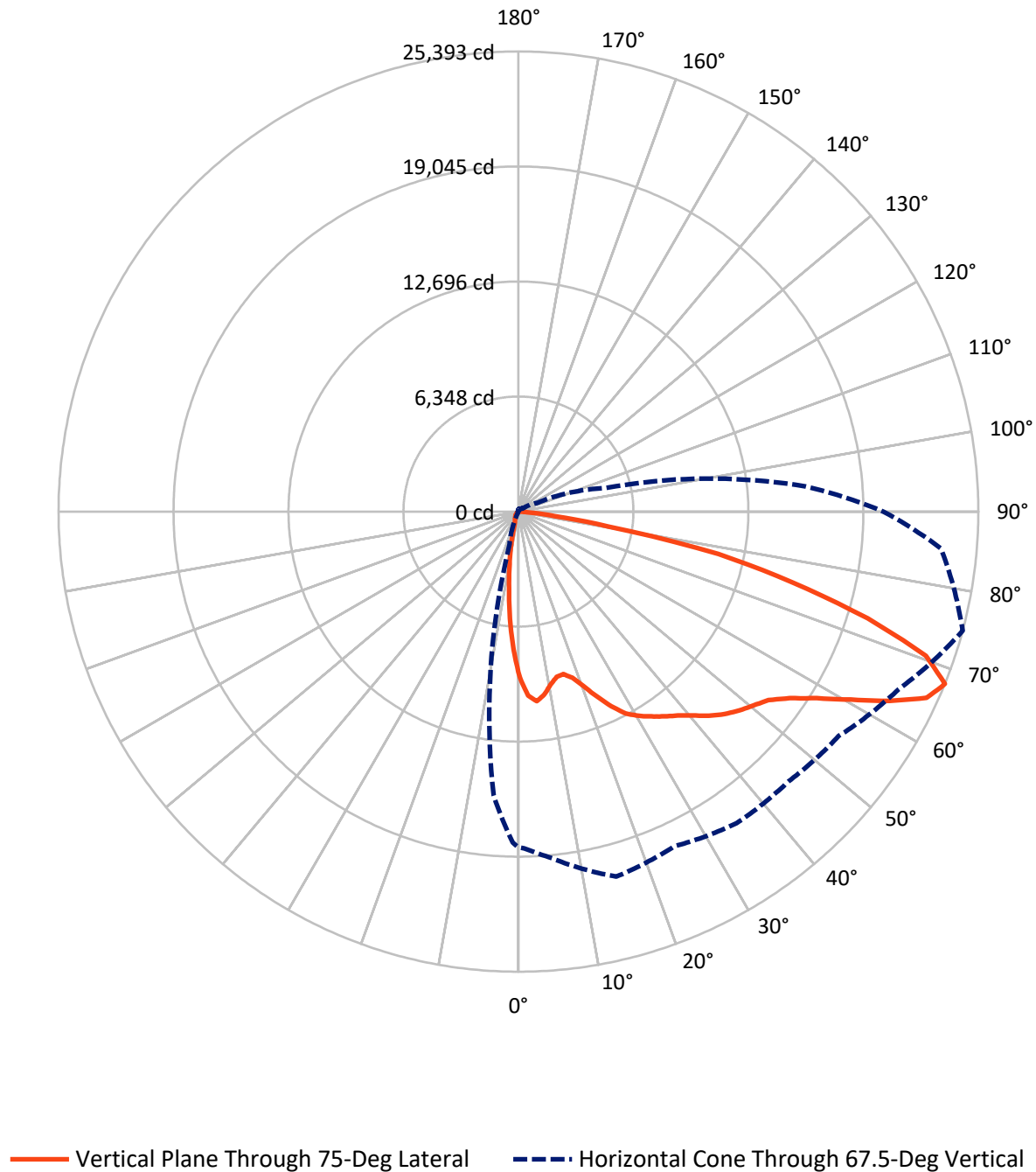
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19 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	4102.5	0.0	4102.5
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	23236.5	0.0	23236.5
	% Fixture	85.0	0.0	85.0
Total	Lumens	27339.0	0.0	27339.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	695.7	2.5
10°-20°	1369.9	5.0
20°-30°	1938.0	7.1
30°-40°	2849.4	10.4
40°-50°	4095.5	15.0
50°-60°	5765.4	21.1
60°-70°	6733.5	24.6
70°-80°	3435.2	12.6
80°-90°	456.3	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°	27339.0	100.0
0°-180°	27339.0	100.0

Coefficient of Utilization



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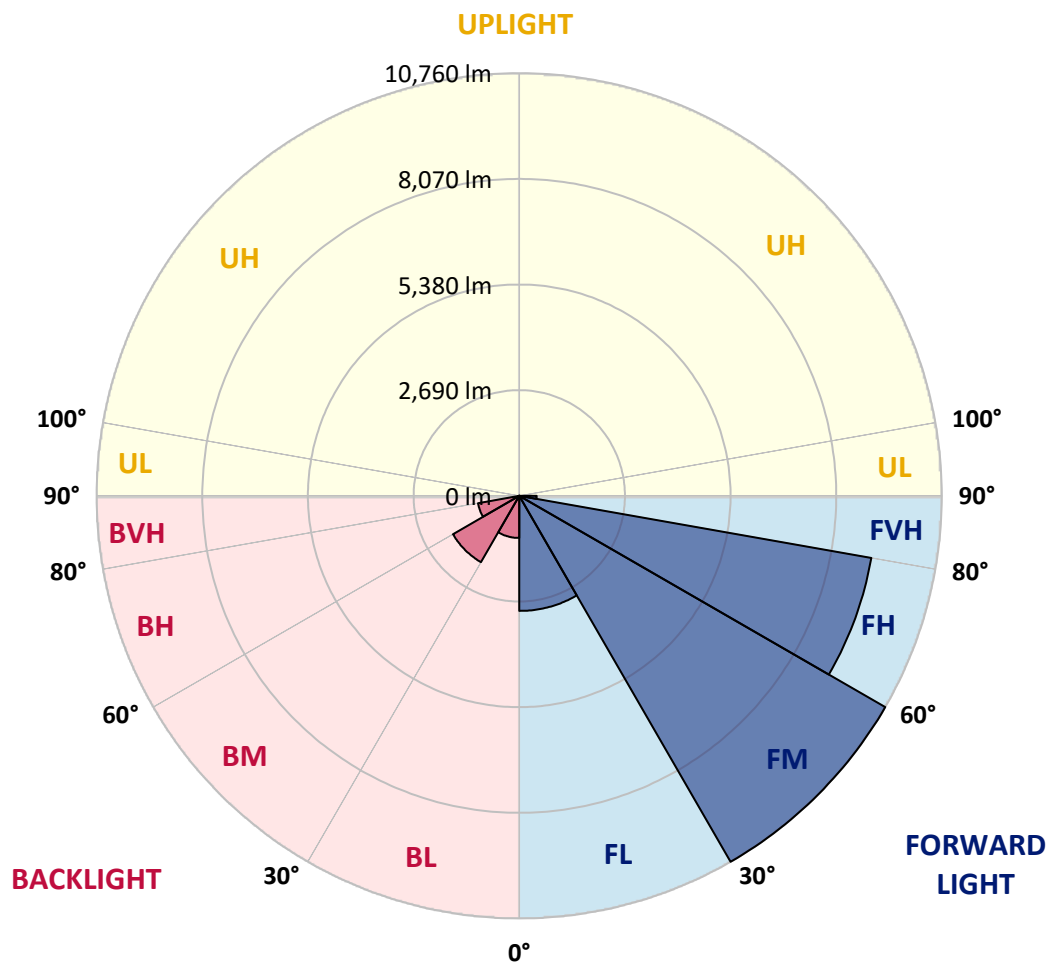
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2930.7	10.7			
FM	(30°-60°)	10760.1	39.4			
FH	(60°-80°)	9103.1	33.3			G4/12000
FVH	(80°-90°)	442.5	1.6			G3/500
BL	(0°-30°)	1072.9	3.9	B3/2500		
BM	(30°-60°)	1950.2	7.1	B2/2500		
BH	(60°-80°)	1065.6	3.9	B3/2500		G3/2500
BVH	(80°-90°)	13.8	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9171.8	9171.8	9171.8	9171.8	9171.8	9171.8	9171.8	9171.8	9171.8	9171.8	9171.8
2.5°	9942.3	9957.9	10038.2	10224.7	10428.0	10443.5	10580.8	10439.7	10391.7	10163.8	9928.1
5°	10017.5	10077.0	10352.9	10900.7	11376.0	11528.8	11637.6	11360.5	11069.1	10512.2	9917.7
7.5°	9412.7	9512.4	9946.2	10974.5	11824.1	12199.7	12270.9	11837.0	11123.5	10206.5	9312.9
10°	8638.2	8752.2	9275.4	10539.4	11706.2	12349.9	12448.3	11879.8	10854.1	9711.8	8658.9
12.5°	8011.4	8144.8	8679.6	10049.8	11300.9	12013.2	12207.4	11736.0	10621.0	9360.8	8212.1
15°	7722.6	7875.4	8437.5	9733.8	10851.5	11412.3	11572.8	11369.5	10491.5	9305.2	8108.5
17.5°	7888.3	8054.1	8634.3	9761.0	10429.3	10668.9	10798.4	10881.3	10491.5	9640.6	8411.6
20°	8568.3	8747.0	9360.8	10036.9	10079.6	9990.3	10128.8	10420.2	10613.2	10277.8	9139.4
22.5°	9508.5	9718.3	10411.2	10509.6	9908.7	9570.7	9588.8	10045.9	10834.7	11085.9	10149.6
25°	10654.6	10911.1	11615.6	11214.1	9979.9	9320.7	9314.2	9737.7	11050.9	11895.3	11275.0
27.5°	11793.0	12075.3	12694.4	12074.0	10273.9	9275.4	9262.4	9644.5	11262.0	12615.4	12504.0
30°	12747.5	13022.0	13555.6	12697.0	10591.2	9381.6	9319.4	9744.2	11387.7	13082.9	13400.2
32.5°	13524.5	13744.7	14176.0	13125.7	10930.5	9587.5	9452.8	10011.0	11601.3	13477.9	14223.9
35°	14379.3	14611.1	14783.4	13533.6	11311.2	9884.1	9691.1	10434.5	11930.3	13879.4	15126.6
37.5°	15354.5	15585.0	15564.3	13906.6	11794.3	10374.9	10251.9	11105.3	12441.8	14277.0	16134.1
40°	16309.0	16544.7	16376.3	14314.5	12361.6	11184.3	11093.7	12112.9	13126.9	14785.9	17315.2
42.5°	17202.6	17457.7	17097.7	14700.5	13037.6	12204.8	12360.3	13410.6	13984.3	15412.8	18333.2
45°	17922.6	18182.9	17702.5	15076.0	13749.9	13442.9	13910.5	14848.1	15015.2	15942.5	19020.9
47.5°	18445.8	18691.9	18122.1	15451.6	14661.6	14956.9	15771.5	16355.6	15946.3	16402.2	19509.1
50°	18780.0	18971.6	18245.1	15921.7	15858.3	16723.4	17710.2	17995.2	16823.1	16816.6	20102.3
52.5°	18992.4	19079.1	18335.8	16412.6	17106.7	18646.6	19608.8	19698.2	17725.8	17272.5	20901.3
55°	19724.1	19794.0	18978.1	17007.0	18138.9	20331.5	21326.1	21243.2	18747.6	18164.8	21844.1
57.5°	20972.5	21046.4	20305.6	17861.8	18974.2	21372.7	22570.7	22719.6	19945.5	19418.5	22854.3
60°	21599.4	21736.6	21472.5	18944.5	19783.7	22038.4	23419.0	23894.3	21442.7	21071.0	23833.4
62.5°	21030.8	21230.3	21613.6	20145.0	20587.9	22404.9	23683.2	24315.2	22976.0	22996.8	24436.9
65°	19896.3	20055.6	20705.8	20802.9	21054.1	22359.6	23030.4	23727.2	23915.0	24765.8	24404.5
67.5°	18526.1	18585.7	19137.4	20854.7	20378.1	20997.2	21069.7	21585.1	23172.9	25392.7	23424.1
70°	16553.7	16586.1	17067.9	19120.6	17512.1	17648.1	17540.6	17645.5	19922.2	23865.8	20949.2
72.5°	13322.5	13404.1	14089.2	15879.0	12757.8	12365.4	13209.8	13163.2	15342.8	20163.1	15559.1
75°	9808.9	9950.1	10984.9	12790.2	8954.2	8099.4	8715.9	8880.4	10907.2	15596.7	9729.9
77.5°	6867.8	6972.7	7975.1	9402.3	6480.6	5791.6	5568.9	5764.4	7199.4	11282.7	4901.9
80°	3956.5	3995.3	4635.1	5429.0	4367.0	4996.4	4526.3	4661.0	4313.9	5019.7	2108.4
82.5°	2588.9	2595.3	2845.3	3231.2	2719.7	3160.0	2338.9	2990.3	2653.6	2016.4	686.4
85°	1398.7	1406.5	1649.9	2293.6	1539.9	870.3	511.6	1050.3	1640.9	462.3	187.8
87.5°	154.1	141.2	497.3	834.0	427.4	79.0	27.2	117.9	262.9	29.8	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°	9171.8	9171.8	9171.8	9171.8	9171.8	9171.8	9171.8	9171.8	9171.8	9171.8	9171.8
2.5°	9807.7	9700.2	9432.1	9148.5	8920.5	8706.8	8491.8	8228.9	8025.6	7984.2	7916.8
5°	9597.8	9257.2	8695.2	8130.5	7675.9	7102.2	6738.3	6454.7	6177.5	6160.7	6105.0
7.5°	8864.8	8416.7	7625.4	6844.5	6204.7	5658.2	5106.5	4737.4	4447.3	4345.0	4284.1
10°	8160.3	7656.5	6668.4	5777.4	5206.2	4723.2	4334.6	3948.7	3599.0	3358.1	3249.4
12.5°	7668.2	7111.3	6022.1	5254.1	4844.9	4386.4	3912.4	3430.7	3027.9	2737.8	2560.4
15°	7477.8	6883.4	5805.9	5046.9	4541.9	3961.7	3355.6	2805.1	2358.3	2095.4	1936.1
17.5°	7704.4	7012.9	5789.0	4794.4	4088.6	3367.2	2697.7	2047.5	1626.6	1427.2	1324.9
20°	8279.5	7424.7	5782.5	4484.9	3549.8	2662.7	1827.4	1346.9	1091.8	980.4	932.5
22.5°	9092.8	7950.5	5834.3	4179.2	2989.0	1902.5	1261.4	989.4	858.6	799.1	771.9
25°	10139.2	8688.7	5980.7	3902.1	2461.9	1419.4	983.0	828.9	736.9	690.3	670.9
27.5°	11254.3	9538.3	6208.6	3661.2	2033.3	1131.9	841.8	709.7	643.7	611.3	593.1
30°	12173.8	10522.5	6439.1	3393.1	1722.5	986.9	770.6	647.5	571.1	550.4	533.6
32.5°	12978.0	11267.2	6602.3	3150.9	1519.1	876.8	696.8	578.9	527.1	487.0	468.8
35°	13810.7	11887.6	6597.1	2981.3	1379.3	793.9	634.6	518.0	455.9	409.2	395.0
37.5°	14712.1	12588.2	6484.5	2836.2	1318.4	727.8	599.6	485.7	423.5	376.9	358.7
40°	15767.6	13323.8	6369.2	2700.2	1301.6	674.7	575.0	459.8	393.7	348.4	330.2
42.5°	16795.9	13986.9	6268.2	2599.2	1229.0	673.4	553.0	440.3	370.4	326.4	305.6
45°	17618.3	14604.6	6248.8	2538.4	1152.6	696.8	541.3	427.4	352.3	308.2	288.8
47.5°	18302.1	15275.5	6373.1	2495.6	1080.1	635.9	569.8	418.3	335.4	292.7	270.7
50°	19115.4	16099.2	6665.8	2425.7	1003.7	572.4	652.7	420.9	321.2	277.1	253.8
52.5°	20249.9	17238.8	7095.8	2307.8	898.8	514.1	642.4	423.5	305.6	260.3	237.0
55°	21521.7	18662.1	7558.1	2112.3	752.4	437.7	550.4	405.4	275.9	242.2	220.2
57.5°	22858.2	19953.3	7832.7	1879.2	598.3	378.2	440.3	369.1	243.5	217.6	203.3
60°	23068.0	20444.2	7707.0	1593.0	475.3	329.0	326.4	375.6	217.6	191.7	181.3
62.5°	22546.1	19827.7	7099.6	1337.8	397.6	288.8	268.1	327.7	196.9	171.0	160.6
65°	21542.4	18160.9	6115.4	1205.7	369.1	247.4	222.8	230.5	172.2	148.9	139.9
67.5°	20146.3	15936.0	5021.0	1130.6	365.2	212.4	190.4	174.8	148.9	129.5	121.7
70°	17291.9	13275.9	4005.7	1089.2	354.9	178.7	160.6	142.5	124.3	110.1	103.6
72.5°	12726.8	9407.5	3116.0	1043.8	357.4	142.5	139.9	117.9	99.7	85.5	82.9
75°	7353.5	5374.6	2043.6	845.7	340.6	110.1	116.6	82.9	69.9	59.6	59.6
77.5°	3918.9	3277.9	778.3	352.3	124.3	69.9	66.0	49.2	44.0	36.3	35.0
80°	1708.2	1442.7	234.4	98.4	68.6	37.6	24.6	22.0	19.4	15.5	14.2
82.5°	604.8	521.9	76.4	47.9	29.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	137.3	98.4	0.0	11.7	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°	9171.8	9171.8	9171.8	9171.8	9171.8	9171.8	9171.8	9171.8	9171.8	9171.8	9171.8
2.5°	7779.6	7751.1	7582.7	7589.2	7619.0	7661.7	7560.7	7607.3	7732.9	7853.4	7898.7
5°	6015.7	6022.1	5919.8	5983.3	6040.3	6079.1	5915.9	5918.5	6018.2	6154.2	6225.5
7.5°	4238.8	4228.4	4233.6	4385.1	4492.6	4414.9	4475.8	4264.7	4277.7	4374.8	4302.3
10°	3150.9	3008.5	2928.2	3042.1	3160.0	3117.3	3012.4	2943.7	2991.6	3099.1	3091.4
12.5°	2476.2	2271.6	2151.1	2069.5	2166.7	2086.4	2083.8	2024.2	1959.5	1971.1	2143.4
15°	1862.3	1713.4	1570.9	1440.1	1437.5	1410.3	1271.8	1116.4	1103.4	1111.2	1200.5
17.5°	1280.8	1230.3	1172.0	1059.4	1029.6	915.6	780.9	718.8	687.7	701.9	731.7
20°	900.1	880.7	887.1	826.3	783.5	674.7	595.7	571.1	566.0	580.2	594.4
22.5°	746.0	711.0	707.1	679.9	637.2	558.2	515.4	501.2	494.7	507.7	518.0
25°	652.7	617.8	603.5	586.7	541.3	487.0	461.0	448.1	441.6	449.4	455.9
27.5°	575.0	542.6	529.7	518.0	474.0	435.1	414.4	402.8	397.6	400.2	406.7
30°	516.7	488.2	471.4	457.2	419.6	392.4	374.3	362.6	357.4	357.4	363.9
32.5°	455.9	440.3	424.8	406.7	371.7	353.6	335.4	322.5	317.3	318.6	323.8
35°	379.5	374.3	378.2	361.3	331.5	316.0	297.9	283.6	279.7	281.0	286.2
37.5°	336.7	313.4	327.7	318.6	301.8	281.0	257.7	244.8	238.3	242.2	244.8
40°	309.5	281.0	270.7	279.7	277.1	243.5	222.8	209.8	204.6	205.9	208.5
42.5°	286.2	252.5	229.2	227.9	243.5	212.4	190.4	178.7	172.2	172.2	174.8
45°	264.2	227.9	199.4	177.4	204.6	180.0	159.3	148.9	141.2	141.2	142.5
47.5°	247.4	207.2	173.5	145.0	154.1	147.6	130.8	120.4	112.7	112.7	114.0
50°	231.8	186.5	150.2	121.7	115.3	121.7	106.2	94.5	89.4	88.1	90.7
52.5°	215.0	165.8	128.2	103.6	90.7	92.0	82.9	75.1	68.6	68.6	71.2
55°	198.1	148.9	111.4	88.1	75.1	68.6	66.0	60.9	55.7	55.7	58.3
57.5°	181.3	130.8	94.5	72.5	59.6	54.4	54.4	50.5	46.6	46.6	49.2
60°	165.8	112.7	77.7	59.6	46.6	45.3	46.6	42.7	40.1	40.1	42.7
62.5°	147.6	95.8	63.5	49.2	37.6	36.3	40.1	37.6	35.0	35.0	37.6
65°	125.6	81.6	50.5	37.6	28.5	28.5	33.7	31.1	28.5	28.5	31.1
67.5°	106.2	68.6	38.9	27.2	20.7	22.0	28.5	25.9	24.6	24.6	27.2
70°	88.1	53.1	27.2	16.8	11.7	16.8	22.0	22.0	22.0	22.0	24.6
72.5°	66.0	36.3	15.5	6.5	5.2	11.7	18.1	20.7	19.4	19.4	23.3
75°	42.7	20.7	5.2	0.0	0.0	6.5	14.2	16.8	16.8	15.5	19.4
77.5°	24.6	6.5	0.0	0.0	0.0	0.0	9.1	7.8	6.5	5.2	9.1
80°	6.5	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

REPORT NUMBER: P324340

CATALOG NUMBER: GLEON-SA6D-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9171.8	9171.8	9171.8	9171.8	9171.8	9171.8	9171.8	9171.8	9171.8	9171.8
2.5°	8081.3	8234.1	8449.1	8677.0	9028.0	9306.5	9579.7	9814.1	9904.8	9942.3
5°	6396.4	6620.5	6935.2	7339.2	7972.5	8542.4	9120.0	9701.5	9954.0	10017.5
7.5°	4589.8	4876.0	5276.2	5782.5	6524.6	7262.8	8069.7	8923.1	9314.2	9412.7
10°	3397.0	3746.7	4205.1	4738.7	5447.1	6206.0	7085.4	8060.6	8507.4	8638.2
12.5°	2410.1	2882.9	3496.7	4145.6	4759.4	5436.8	6326.5	7401.4	7870.2	8011.4
15°	1415.5	1872.7	2599.2	3468.2	4254.3	4940.7	5844.7	7063.4	7580.1	7722.6
17.5°	812.0	1040.0	1589.1	2557.8	3624.9	4575.5	5693.2	7147.6	7756.2	7888.3
20°	620.3	692.9	915.6	1647.3	2889.3	4216.8	5693.2	7624.1	8374.0	8568.3
22.5°	542.6	595.7	686.4	983.0	2126.5	3832.1	5759.2	8313.1	9293.5	9508.5
25°	481.8	529.7	607.4	739.5	1450.5	3375.0	5915.9	9158.8	10376.2	10654.6
27.5°	431.3	476.6	546.5	647.5	992.0	2823.3	6127.0	10150.8	11570.3	11793.0
30°	385.9	428.7	492.1	563.4	765.4	2197.8	6307.0	11085.9	12507.9	12747.5
32.5°	343.2	382.0	439.0	492.1	626.8	1625.3	6326.5	11826.7	13286.2	13524.5
35°	303.0	338.0	389.8	431.3	519.3	1283.4	6024.7	12469.0	14064.6	14379.3
37.5°	264.2	297.9	343.2	374.3	457.2	1046.4	5563.7	13185.2	15063.1	15354.5
40°	227.9	257.7	304.3	325.1	432.6	804.2	5062.5	13936.4	16042.2	16309.0
42.5°	194.3	222.8	268.1	308.2	379.5	600.9	4521.1	14640.9	16922.8	17202.6
45°	161.9	191.7	237.0	326.4	314.7	449.4	3942.2	15108.4	17618.3	17922.6
47.5°	130.8	164.5	226.6	310.8	251.2	330.2	3483.8	15551.3	18145.4	18445.8
50°	104.9	138.6	255.1	277.1	205.9	252.5	3292.1	15947.6	18491.2	18780.0
52.5°	85.5	116.6	240.9	212.4	172.2	208.5	3395.7	16590.0	18811.1	18992.4
55°	71.2	92.0	145.0	147.6	146.3	177.4	3523.9	17512.1	19638.6	19724.1
57.5°	62.2	73.8	101.0	114.0	123.0	158.0	3526.5	18835.7	20919.5	20972.5
60°	53.1	64.8	84.2	92.0	106.2	141.2	3398.3	19298.0	21423.2	21599.4
62.5°	46.6	57.0	69.9	76.4	89.4	126.9	3097.8	18628.5	20731.7	21030.8
65°	41.4	51.8	58.3	64.8	79.0	114.0	2603.1	17289.3	19584.2	19896.3
67.5°	36.3	45.3	51.8	58.3	71.2	101.0	1916.7	15733.9	18267.1	18526.1
70°	32.4	40.1	46.6	51.8	62.2	85.5	1163.0	13351.0	16446.2	16553.7
72.5°	31.1	36.3	42.7	46.6	54.4	75.1	589.3	9811.5	13147.7	13322.5
75°	27.2	32.4	38.9	41.4	47.9	64.8	239.6	6444.3	9527.9	9808.9
77.5°	22.0	29.8	35.0	37.6	41.4	53.1	121.7	4118.4	6686.5	6867.8
80°	7.8	22.0	29.8	31.1	35.0	38.9	80.3	2254.7	3878.8	3956.5
82.5°	0.0	14.2	23.3	22.0	24.6	29.8	51.8	1072.3	2560.4	2588.9
85°	0.0	6.5	18.1	14.2	10.4	20.7	18.1	234.4	1343.0	1398.7
87.5°	0.0	0.0	1.3	6.5	5.2	7.8	2.6	1.3	121.7	154.1
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.

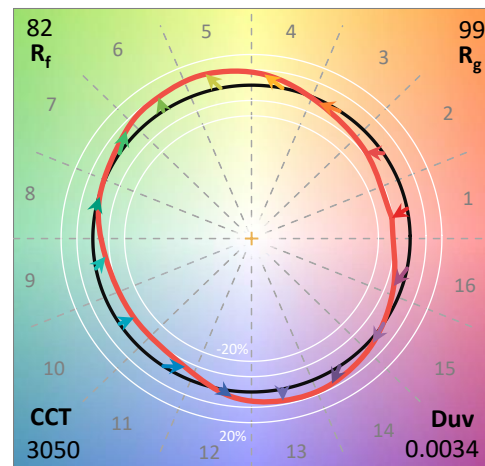
Test Information

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

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength



Photopic Lumens: NR

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			

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 $\text{W}^\wedge/\text{nm}$	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			

REPORT NUMBER: SP1-2408-195-9

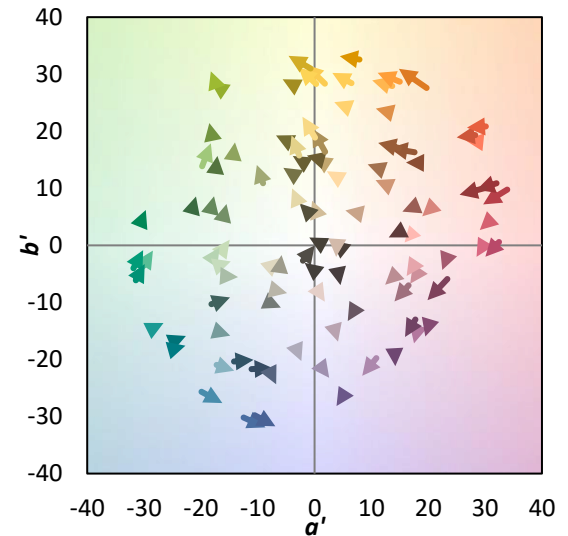
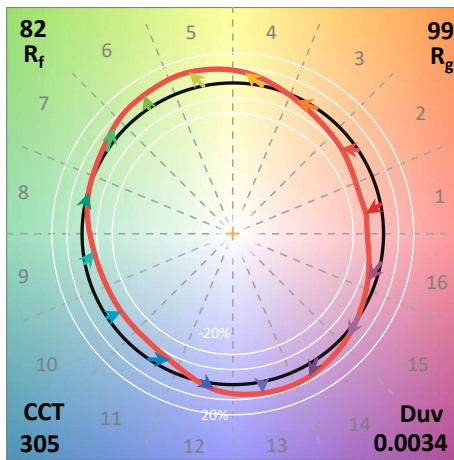
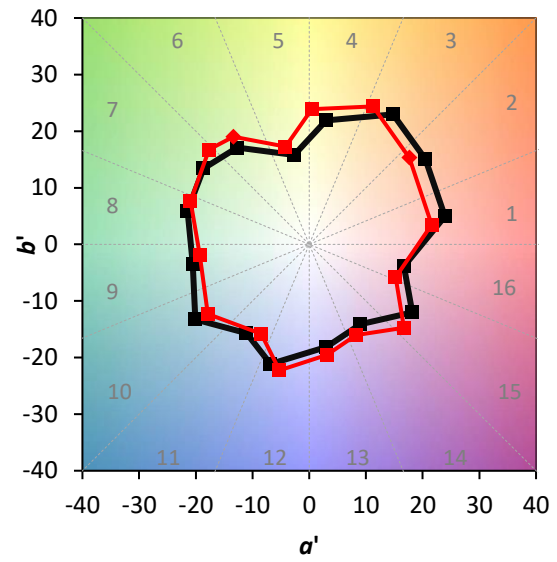
TM-30-18

Summary

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

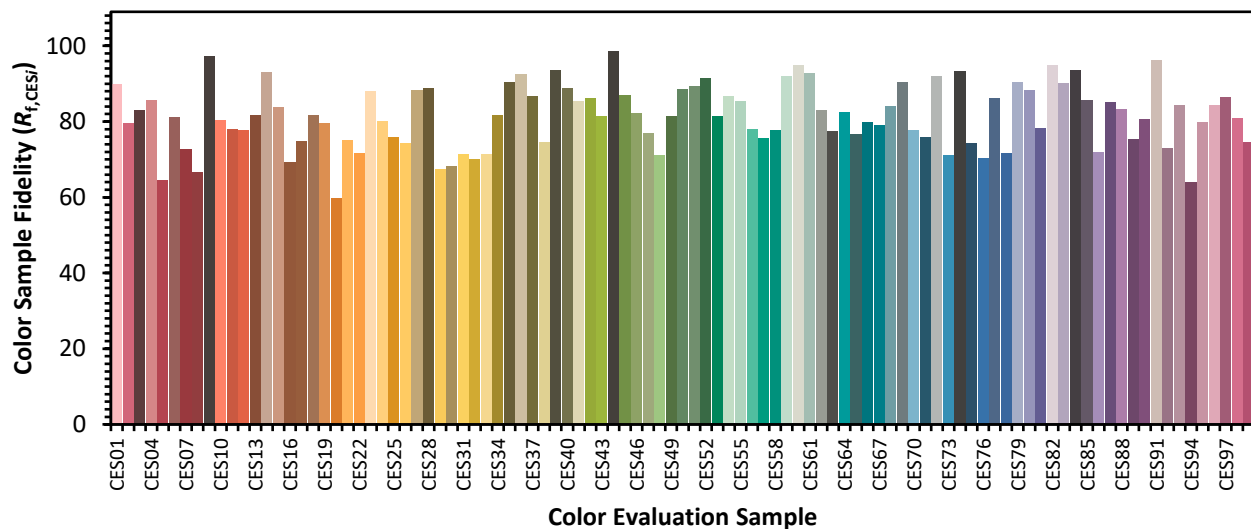


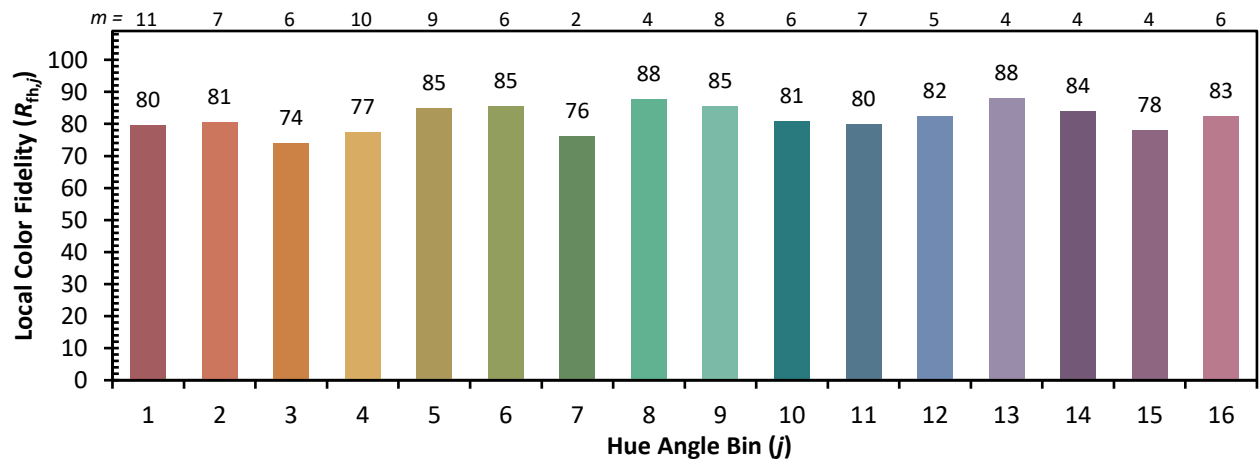
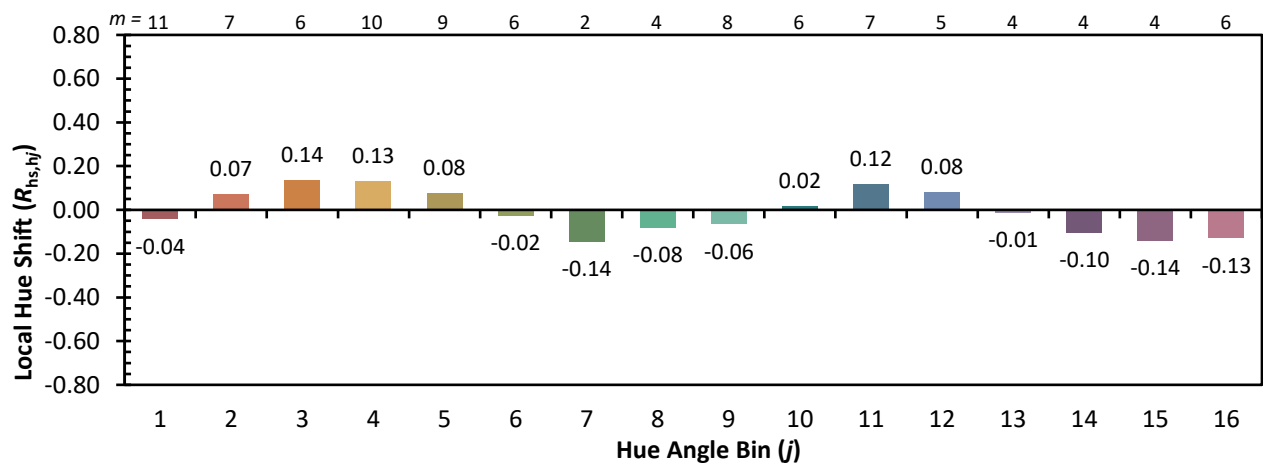
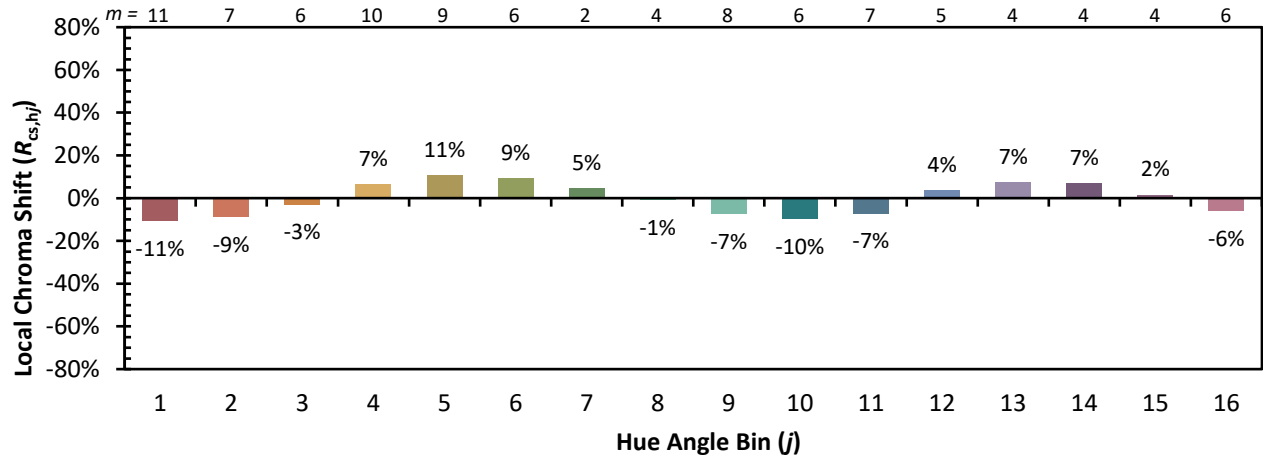
Color Vector Graphics



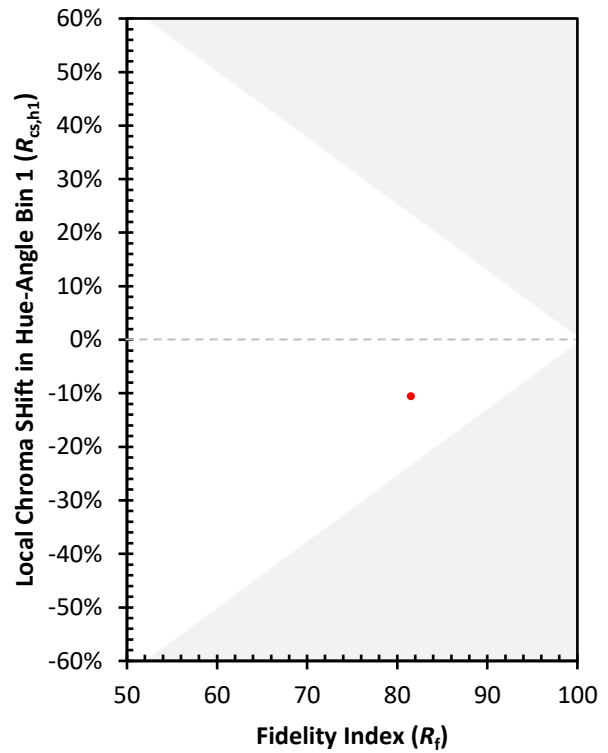
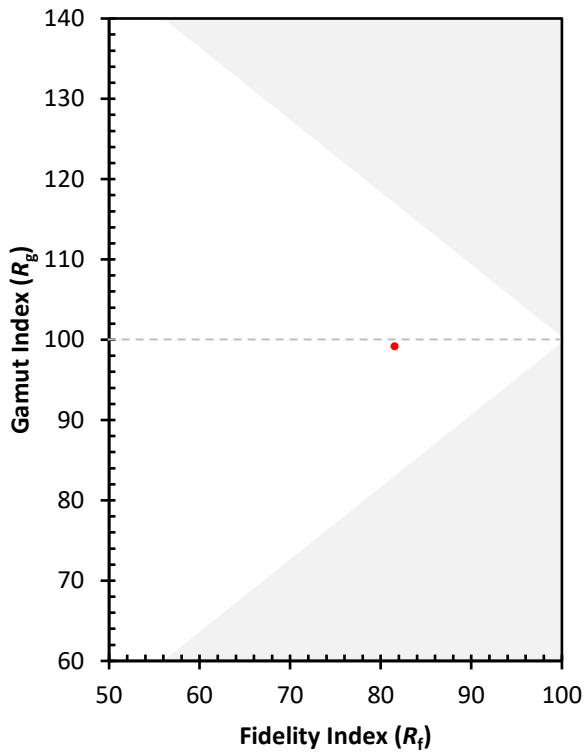
Individual Sample Fidelity Index ($R_{f,i}$)

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)