

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: P324320

Luminaire Tested: **GLEON-SA6B-830-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324320
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-SA6B-830-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 800mA 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: 20135 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

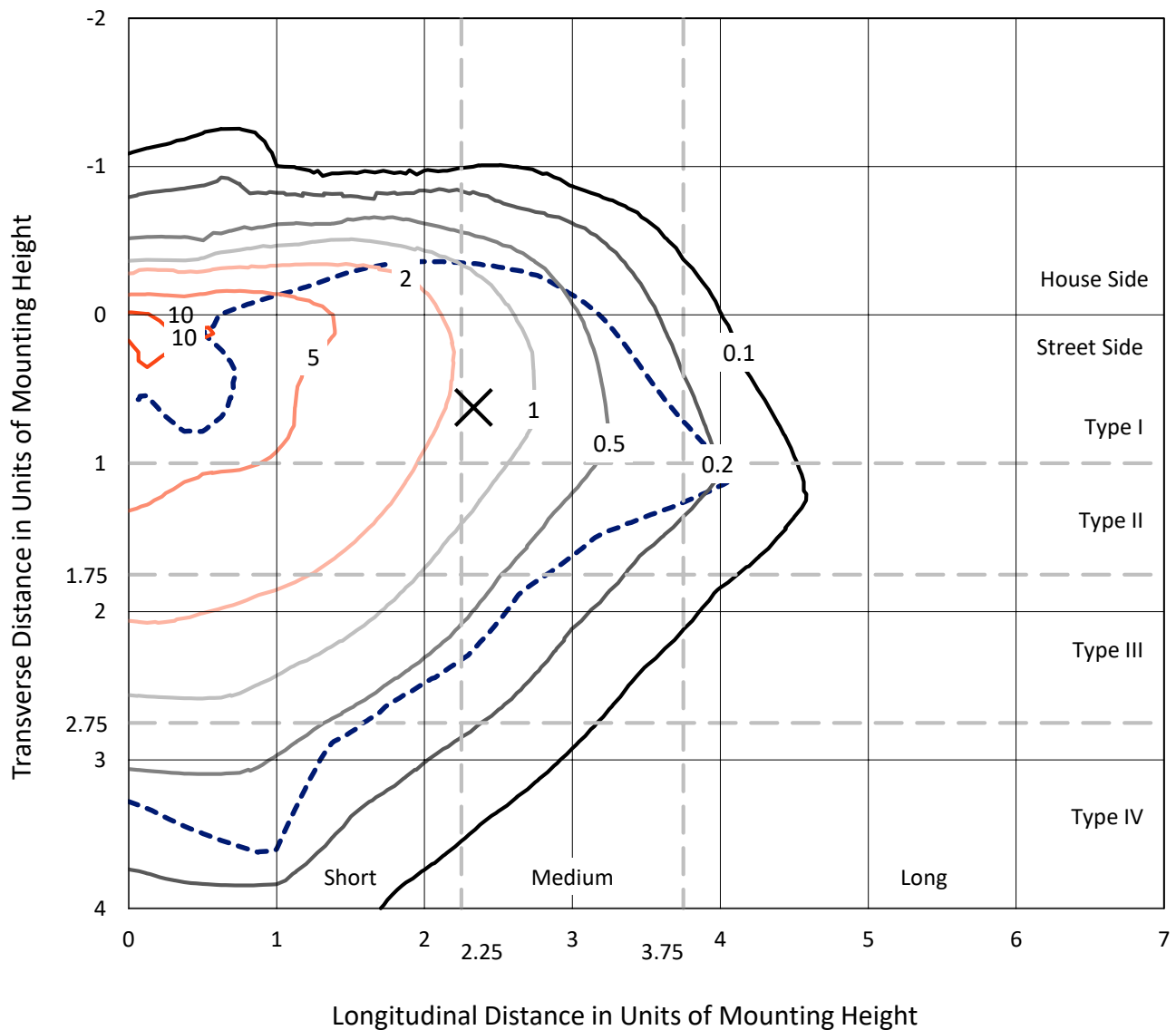
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

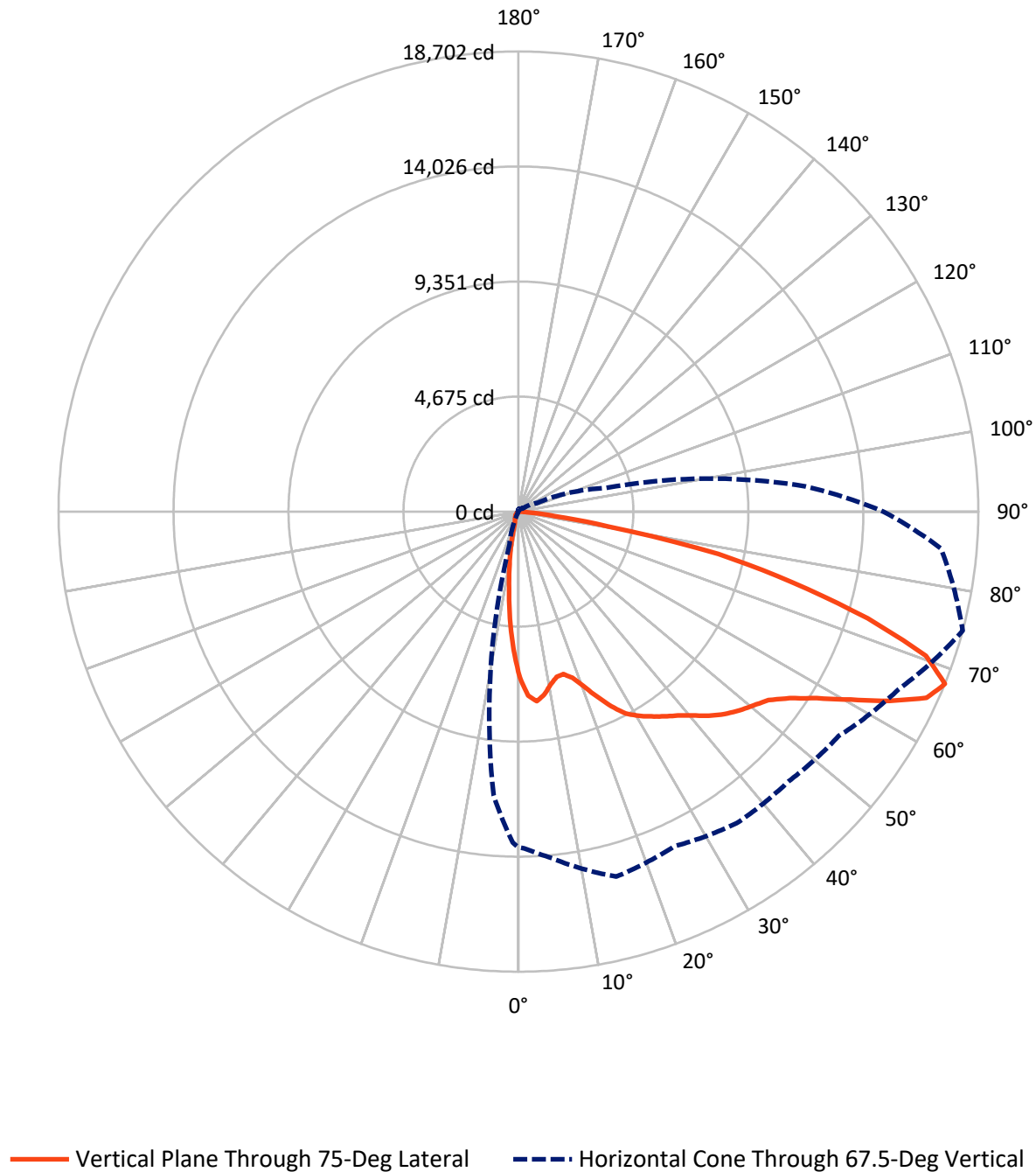
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 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	3021.5	0.0	3021.5
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	17113.5	0.0	17113.5
	% Fixture	85.0	0.0	85.0
Total	Lumens	20135.0	0.0	20135.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	512.4	2.5
10°-20°	1008.9	5.0
20°-30°	1427.3	7.1
30°-40°	2098.6	10.4
40°-50°	3016.3	15.0
50°-60°	4246.2	21.1
60°-70°	4959.2	24.6
70°-80°	2530.0	12.6
80°-90°	336.1	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°	20135.0	100.0
0°-180°	20135.0	100.0

Coefficient of Utilization



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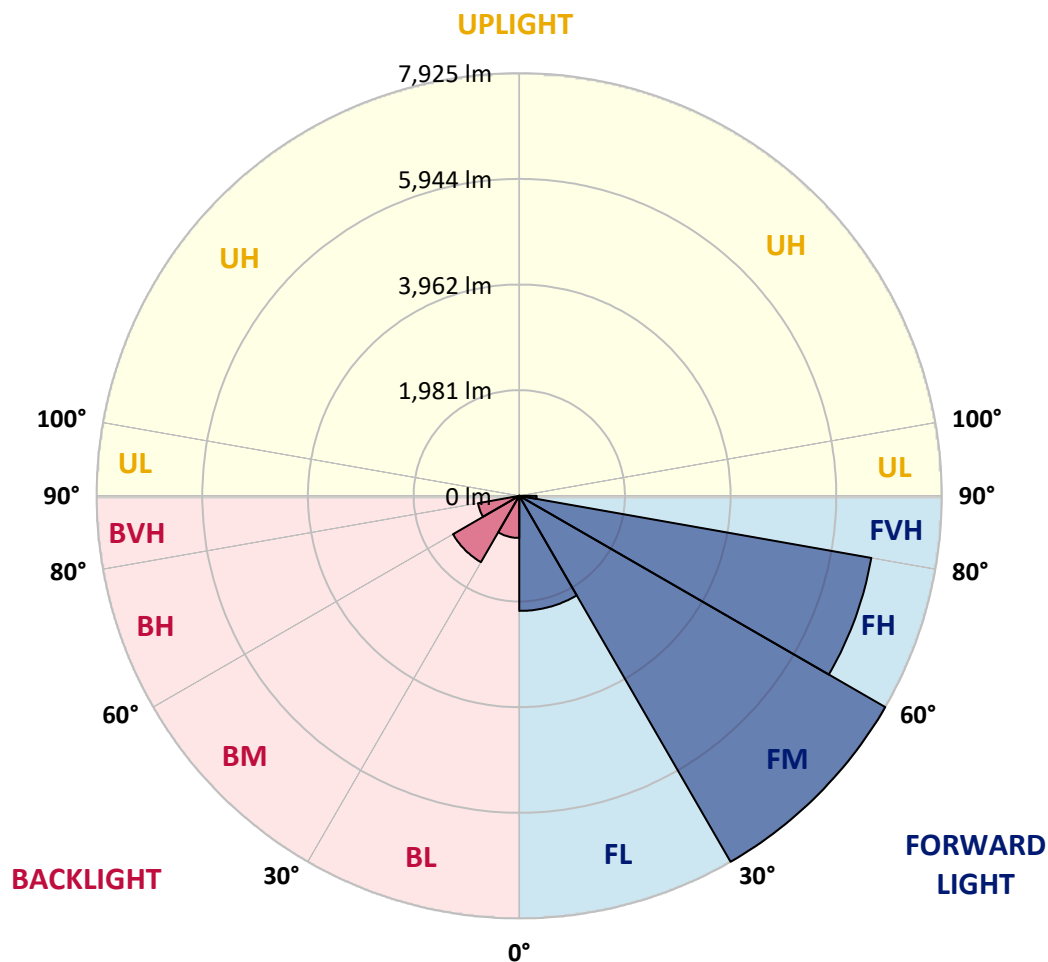
CATALOG NUMBER: GLEON-SA6B-830-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2158.5	10.7			
FM	(30°-60°)	7924.8	39.4			
FH	(60°-80°)	6704.4	33.3			G3/7500
FVH	(80°-90°)	325.9	1.6			G3/500
BL	(0°-30°)	790.2	3.9	B2/1000		
BM	(30°-60°)	1436.3	7.1	B2/2500		
BH	(60°-80°)	784.8	3.9	B2/1000		G2/1000
BVH	(80°-90°)	10.2	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6754.9	6754.9	6754.9	6754.9	6754.9	6754.9	6754.9	6754.9	6754.9	6754.9	6754.9
2.5°	7322.5	7333.9	7393.1	7530.4	7680.2	7691.6	7792.7	7688.7	7653.4	7485.6	7312.0
5°	7377.8	7421.7	7624.8	8028.3	8378.3	8490.9	8571.0	8366.9	8152.3	7742.2	7304.3
7.5°	6932.4	7005.8	7325.3	8082.7	8708.4	8985.0	9037.4	8717.9	8192.4	7517.0	6858.9
10°	6362.0	6445.9	6831.3	7762.2	8621.6	9095.6	9168.1	8749.4	7994.0	7152.7	6377.2
12.5°	5900.3	5998.6	6392.5	7401.6	8323.0	8847.6	8990.7	8643.5	7822.3	6894.2	6048.2
15°	5687.6	5800.2	6214.1	7168.9	7992.1	8405.1	8523.3	8373.6	7726.9	6853.2	5971.9
17.5°	5809.7	5931.8	6359.1	7188.9	7681.1	7857.6	7952.9	8014.0	7726.9	7100.2	6195.1
20°	6310.5	6442.1	6894.2	7392.1	7423.6	7357.8	7459.8	7674.4	7816.5	7569.5	6731.1
22.5°	7002.9	7157.5	7667.8	7740.2	7297.7	7048.7	7062.1	7398.8	7979.7	8164.7	7475.1
25°	7847.1	8035.9	8554.8	8259.1	7350.1	6864.6	6859.9	7171.8	8138.9	8760.8	8304.0
27.5°	8685.5	8893.4	9349.3	8892.5	7566.6	6831.3	6821.7	7103.1	8294.4	9291.2	9209.1
30°	9388.4	9590.7	9983.6	9351.2	7800.3	6909.5	6863.7	7176.5	8386.9	9635.5	9869.2
32.5°	9960.7	10122.9	10440.5	9667.0	8050.2	7061.1	6961.9	7373.0	8544.3	9926.4	10475.8
35°	10590.3	10761.0	10887.8	9967.4	8330.7	7279.5	7137.4	7684.9	8786.6	10222.1	11140.6
37.5°	11308.5	11478.3	11463.0	10242.1	8686.4	7641.0	7550.4	8179.0	9163.3	10514.9	11882.7
40°	12011.4	12185.0	12061.0	10542.6	9104.2	8237.2	8170.4	8921.1	9667.9	10889.8	12752.6
42.5°	12669.6	12857.5	12592.3	10826.8	9602.1	8988.8	9103.3	9876.8	10299.3	11351.4	13502.3
45°	13199.9	13391.6	13037.8	11103.4	10126.7	9900.6	10245.0	10935.5	11058.6	11741.5	14008.7
47.5°	13585.2	13766.5	13346.8	11380.0	10798.2	11015.7	11615.6	12045.8	11744.4	12080.1	14368.3
50°	13831.3	13972.5	13437.4	11726.3	11679.5	12316.7	13043.5	13253.3	12390.1	12385.3	14805.2
52.5°	13987.8	14051.7	13504.2	12087.8	12599.0	13733.1	14441.8	14507.6	13054.9	12721.1	15393.7
55°	14526.7	14578.2	13977.3	12525.6	13359.2	14974.0	15706.5	15645.5	13807.5	13378.3	16088.1
57.5°	15446.1	15500.5	14954.9	13155.1	13974.4	15740.9	16623.2	16732.9	14689.8	14301.6	16832.0
60°	15907.8	16008.9	15814.3	13952.5	14570.5	16231.1	17247.9	17598.0	15792.4	15518.6	17553.1
62.5°	15489.1	15636.0	15918.3	14836.7	15162.9	16501.1	17442.5	17908.0	16921.7	16937.0	17997.6
65°	14653.5	14770.8	15249.7	15321.2	15506.2	16467.7	16961.8	17474.9	17613.2	18239.9	17973.8
67.5°	13644.4	13688.3	14094.6	15359.4	15008.3	15464.3	15517.7	15897.3	17066.7	18701.5	17251.7
70°	12191.7	12215.6	12570.4	14082.2	12897.5	12997.7	12918.5	12995.8	14672.6	17577.0	15429.0
72.5°	9811.9	9872.0	10376.6	11694.8	9396.1	9107.1	9729.0	9694.6	11299.9	14850.0	11459.2
75°	7224.2	7328.2	8090.3	9419.9	6594.7	5965.2	6419.2	6540.3	8033.1	11486.8	7166.0
77.5°	5058.1	5135.4	5873.6	6924.7	4772.9	4265.5	4101.4	4245.4	5302.3	8309.7	3610.2
80°	2913.9	2942.5	3413.7	3998.4	3216.3	3679.8	3333.6	3432.8	3177.2	3697.0	1552.8
82.5°	1906.7	1911.5	2095.5	2379.8	2003.0	2327.3	1722.6	2202.4	1954.4	1485.1	505.5
85°	1030.1	1035.8	1215.2	1689.2	1134.1	641.0	376.8	773.5	1208.5	340.5	138.3
87.5°	113.5	104.0	366.3	614.3	314.8	58.2	20.0	86.8	193.6	21.9	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°	6754.9	6754.9	6754.9	6754.9	6754.9	6754.9	6754.9	6754.9	6754.9	6754.9	6754.9
2.5°	7223.3	7144.1	6946.7	6737.8	6569.9	6412.5	6254.2	6060.6	5910.8	5880.3	5830.7
5°	7068.8	6817.9	6403.9	5988.1	5653.3	5230.7	4962.7	4753.8	4549.7	4537.3	4496.3
7.5°	6528.9	6198.9	5616.1	5040.9	4569.7	4167.2	3760.9	3489.1	3275.4	3200.1	3155.2
10°	6010.0	5639.0	4911.2	4255.0	3834.4	3478.6	3192.4	2908.2	2650.7	2473.3	2393.1
12.5°	5647.6	5237.4	4435.3	3869.6	3568.2	3230.6	2881.5	2526.7	2230.0	2016.4	1885.7
15°	5507.4	5069.5	4276.0	3717.0	3345.0	2917.7	2471.3	2066.0	1736.9	1543.3	1426.0
17.5°	5674.3	5164.9	4263.6	3531.0	3011.2	2479.9	1986.8	1508.0	1198.0	1051.1	975.8
20°	6097.8	5468.2	4258.8	3303.1	2614.4	1961.1	1345.8	992.0	804.1	722.0	686.7
22.5°	6696.8	5855.5	4297.0	3078.0	2201.4	1401.2	929.0	728.7	632.4	588.5	568.5
25°	7467.5	6399.2	4404.7	2873.9	1813.2	1045.4	723.9	610.4	542.7	508.4	494.1
27.5°	8288.7	7024.9	4572.6	2696.4	1497.5	833.6	620.0	522.7	474.0	450.2	436.8
30°	8965.9	7749.8	4742.4	2499.0	1268.6	726.8	567.5	476.9	420.6	405.4	393.0
32.5°	9558.2	8298.2	4862.6	2320.6	1118.8	645.7	513.2	426.4	388.2	358.6	345.3
35°	10171.5	8755.1	4858.8	2195.7	1015.8	584.7	467.4	381.5	335.7	301.4	290.9
37.5°	10835.4	9271.1	4775.8	2088.9	971.0	536.0	441.6	357.7	311.9	277.6	264.2
40°	11612.7	9812.9	4690.9	1988.7	958.6	496.9	423.5	338.6	290.0	256.6	243.2
42.5°	12370.1	10301.2	4616.5	1914.3	905.2	496.0	407.3	324.3	272.8	240.4	225.1
45°	12975.8	10756.2	4602.2	1869.5	848.9	513.2	398.7	314.8	259.4	227.0	212.7
47.5°	13479.4	11250.3	4693.7	1838.0	795.5	468.3	419.7	308.1	247.0	215.6	199.3
50°	14078.4	11856.9	4909.3	1786.5	739.2	421.6	480.7	310.0	236.5	204.1	186.9
52.5°	14913.9	12696.3	5226.0	1699.7	662.0	378.7	473.1	311.9	225.1	191.7	174.5
55°	15850.6	13744.5	5566.5	1555.7	554.2	322.4	405.4	298.5	203.2	178.4	162.1
57.5°	16834.9	14695.5	5768.7	1384.0	440.7	278.5	324.3	271.8	179.3	160.2	149.7
60°	16989.4	15057.0	5676.2	1173.2	350.1	242.3	240.4	276.6	160.2	141.2	133.5
62.5°	16605.0	14603.0	5228.8	985.3	292.8	212.7	197.4	241.3	145.0	125.9	118.3
65°	15865.8	13375.4	4503.9	888.0	271.8	182.2	164.1	169.8	126.9	109.7	103.0
67.5°	14837.6	11736.7	3698.0	832.7	269.0	156.4	140.2	128.8	109.7	95.4	89.7
70°	12735.4	9777.6	2950.2	802.2	261.3	131.6	118.3	104.9	91.6	81.1	76.3
72.5°	9373.2	6928.5	2294.9	768.8	263.3	104.9	103.0	86.8	73.4	63.0	61.0
75°	5415.8	3958.4	1505.1	622.8	250.9	81.1	85.8	61.0	51.5	43.9	43.9
77.5°	2886.3	2414.1	573.2	259.4	91.6	51.5	48.6	36.2	32.4	26.7	25.8
80°	1258.1	1062.6	172.6	72.5	50.6	27.7	18.1	16.2	14.3	11.4	10.5
82.5°	445.4	384.4	56.3	35.3	21.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	101.1	72.5	0.0	8.6	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°	6754.9	6754.9	6754.9	6754.9	6754.9	6754.9	6754.9	6754.9	6754.9	6754.9	6754.9
2.5°	5729.6	5708.6	5584.6	5589.4	5611.3	5642.8	5568.4	5602.7	5695.3	5784.0	5817.3
5°	4430.5	4435.3	4359.9	4406.6	4448.6	4477.2	4357.0	4359.0	4432.4	4532.5	4585.0
7.5°	3121.9	3114.2	3118.0	3229.6	3308.8	3251.6	3296.4	3140.9	3150.5	3222.0	3168.6
10°	2320.6	2215.7	2156.6	2240.5	2327.3	2295.8	2218.6	2168.0	2203.3	2282.5	2276.8
12.5°	1823.7	1673.0	1584.3	1524.2	1595.7	1536.6	1534.7	1490.8	1443.1	1451.7	1578.6
15°	1371.6	1261.9	1157.0	1060.6	1058.7	1038.7	936.7	822.2	812.7	818.4	884.2
17.5°	943.3	906.1	863.2	780.2	758.3	674.4	575.2	529.4	506.5	517.0	538.9
20°	662.9	648.6	653.4	608.5	577.1	496.9	438.8	420.6	416.8	427.3	437.8
22.5°	549.4	523.6	520.8	500.8	469.3	411.1	379.6	369.1	364.4	373.9	381.5
25°	480.7	455.0	444.5	432.1	398.7	358.6	339.6	330.0	325.3	331.0	335.7
27.5°	423.5	399.7	390.1	381.5	349.1	320.5	305.2	296.6	292.8	294.7	299.5
30°	380.6	359.6	347.2	336.7	309.0	289.0	275.7	267.1	263.3	263.3	268.0
32.5°	335.7	324.3	312.9	299.5	273.7	260.4	247.0	237.5	233.7	234.6	238.5
35°	279.5	275.7	278.5	266.1	244.2	232.7	219.4	208.9	206.0	207.0	210.8
37.5°	248.0	230.8	241.3	234.6	222.2	207.0	189.8	180.3	175.5	178.4	180.3
40°	228.0	207.0	199.3	206.0	204.1	179.3	164.1	154.5	150.7	151.7	153.6
42.5°	210.8	186.0	168.8	167.9	179.3	156.4	140.2	131.6	126.9	126.9	128.8
45°	194.6	167.9	146.9	130.7	150.7	132.6	117.3	109.7	104.0	104.0	104.9
47.5°	182.2	152.6	127.8	106.8	113.5	108.7	96.3	88.7	83.0	83.0	83.9
50°	170.7	137.3	110.6	89.7	84.9	89.7	78.2	69.6	65.8	64.9	66.8
52.5°	158.3	122.1	94.4	76.3	66.8	67.7	61.0	55.3	50.6	50.6	52.5
55°	145.9	109.7	82.0	64.9	55.3	50.6	48.6	44.8	41.0	41.0	42.9
57.5°	133.5	96.3	69.6	53.4	43.9	40.1	40.1	37.2	34.3	34.3	36.2
60°	122.1	83.0	57.2	43.9	34.3	33.4	34.3	31.5	29.6	29.6	31.5
62.5°	108.7	70.6	46.7	36.2	27.7	26.7	29.6	27.7	25.8	25.8	27.7
65°	92.5	60.1	37.2	27.7	21.0	21.0	24.8	22.9	21.0	21.0	22.9
67.5°	78.2	50.6	28.6	20.0	15.3	16.2	21.0	19.1	18.1	18.1	20.0
70°	64.9	39.1	20.0	12.4	8.6	12.4	16.2	16.2	16.2	16.2	18.1
72.5°	48.6	26.7	11.4	4.8	3.8	8.6	13.4	15.3	14.3	14.3	17.2
75°	31.5	15.3	3.8	0.0	0.0	4.8	10.5	12.4	12.4	11.4	14.3
77.5°	18.1	4.8	0.0	0.0	0.0	0.0	6.7	5.7	4.8	3.8	6.7
80°	4.8	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: GLEON-SA6B-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6754.9	6754.9	6754.9	6754.9	6754.9	6754.9	6754.9	6754.9	6754.9	6754.9
2.5°	5951.8	6064.4	6222.7	6390.6	6649.1	6854.1	7055.4	7228.0	7294.8	7322.5
5°	4710.9	4875.9	5107.7	5405.3	5871.7	6291.4	6716.8	7145.1	7331.1	7377.8
7.5°	3380.3	3591.1	3885.9	4258.8	4805.3	5349.0	5943.2	6571.8	6859.9	6932.4
10°	2501.9	2759.4	3097.1	3490.0	4011.8	4570.7	5218.3	5936.6	6265.6	6362.0
12.5°	1775.1	2123.2	2575.3	3053.2	3505.3	4004.1	4659.4	5451.1	5796.4	5900.3
15°	1042.5	1379.2	1914.3	2554.3	3133.3	3638.8	4304.6	5202.1	5582.7	5687.6
17.5°	598.0	765.9	1170.3	1883.8	2669.7	3369.8	4193.0	5264.1	5712.4	5809.7
20°	456.9	510.3	674.4	1213.3	2128.0	3105.6	4193.0	5615.1	6167.4	6310.5
22.5°	399.7	438.8	505.5	723.9	1566.2	2822.4	4241.6	6122.6	6844.6	7002.9
25°	354.8	390.1	447.3	544.6	1068.3	2485.7	4357.0	6745.4	7642.0	7847.1
27.5°	317.6	351.0	402.5	476.9	730.6	2079.3	4512.5	7476.0	8521.4	8685.5
30°	284.2	315.7	362.5	414.9	563.7	1618.6	4645.1	8164.7	9212.0	9388.4
32.5°	252.8	281.4	323.3	362.5	461.6	1197.0	4659.4	8710.3	9785.2	9960.7
35°	223.2	248.9	287.1	317.6	382.5	945.2	4437.2	9183.4	10358.5	10590.3
37.5°	194.6	219.4	252.8	275.7	336.7	770.7	4097.6	9710.8	11093.9	11308.5
40°	167.9	189.8	224.1	239.4	318.6	592.3	3728.5	10264.0	11815.0	12011.4
42.5°	143.1	164.1	197.4	227.0	279.5	442.6	3329.8	10782.9	12463.6	12669.6
45°	119.2	141.2	174.5	240.4	231.8	331.0	2903.4	11127.3	12975.8	13199.9
47.5°	96.3	121.1	166.9	228.9	185.0	243.2	2565.8	11453.5	13364.0	13585.2
50°	77.3	102.1	187.9	204.1	151.7	186.0	2424.6	11745.3	13618.6	13831.3
52.5°	63.0	85.8	177.4	156.4	126.9	153.6	2500.9	12218.4	13854.2	13987.8
55°	52.5	67.7	106.8	108.7	107.8	130.7	2595.3	12897.5	14463.7	14526.7
57.5°	45.8	54.4	74.4	83.9	90.6	116.4	2597.2	13872.3	15407.0	15446.1
60°	39.1	47.7	62.0	67.7	78.2	104.0	2502.8	14212.9	15778.1	15907.8
62.5°	34.3	42.0	51.5	56.3	65.8	93.5	2281.5	13719.7	15268.7	15489.1
65°	30.5	38.2	42.9	47.7	58.2	83.9	1917.2	12733.5	14423.7	14653.5
67.5°	26.7	33.4	38.2	42.9	52.5	74.4	1411.7	11588.0	13453.6	13644.4
70°	23.8	29.6	34.3	38.2	45.8	63.0	856.5	9832.9	12112.6	12191.7
72.5°	22.9	26.7	31.5	34.3	40.1	55.3	434.0	7226.1	9683.2	9811.9
75°	20.0	23.8	28.6	30.5	35.3	47.7	176.5	4746.2	7017.2	7224.2
77.5°	16.2	21.9	25.8	27.7	30.5	39.1	89.7	3033.1	4924.6	5058.1
80°	5.7	16.2	21.9	22.9	25.8	28.6	59.1	1660.6	2856.7	2913.9
82.5°	0.0	10.5	17.2	16.2	18.1	21.9	38.2	789.8	1885.7	1906.7
85°	0.0	4.8	13.4	10.5	7.6	15.3	13.4	172.6	989.1	1030.1
87.5°	0.0	0.0	1.0	4.8	3.8	5.7	1.9	1.0	89.7	113.5
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 ^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			

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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

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



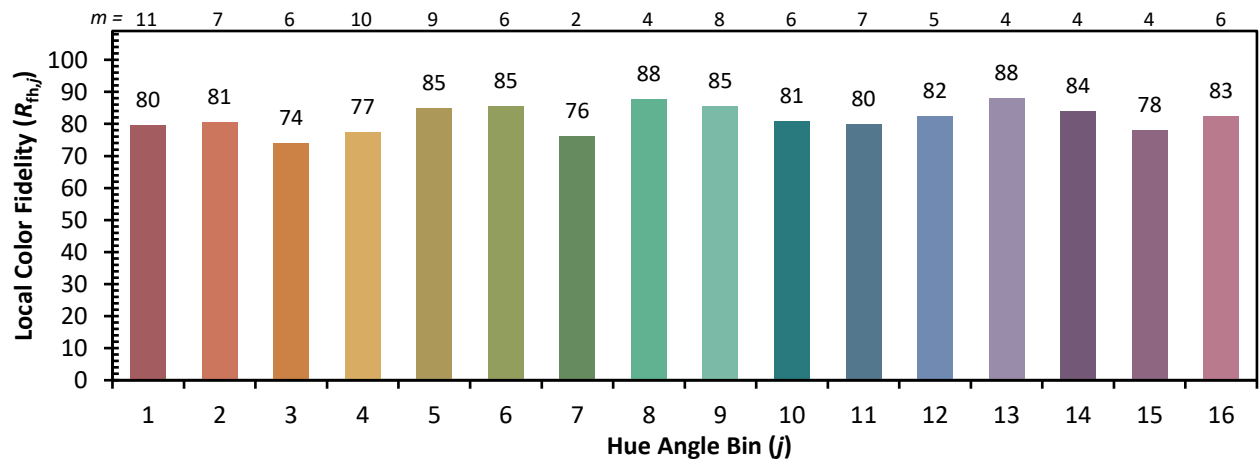
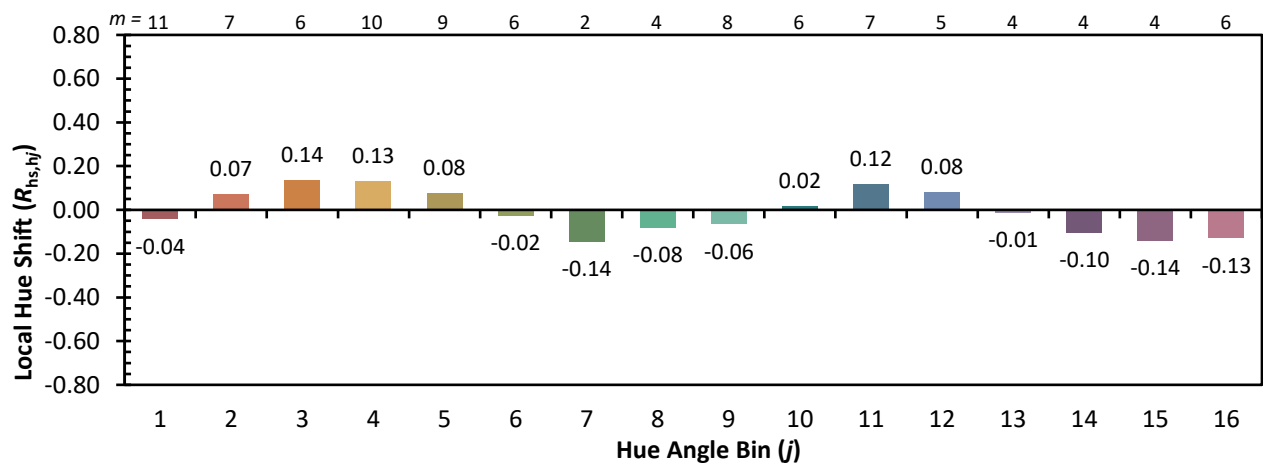
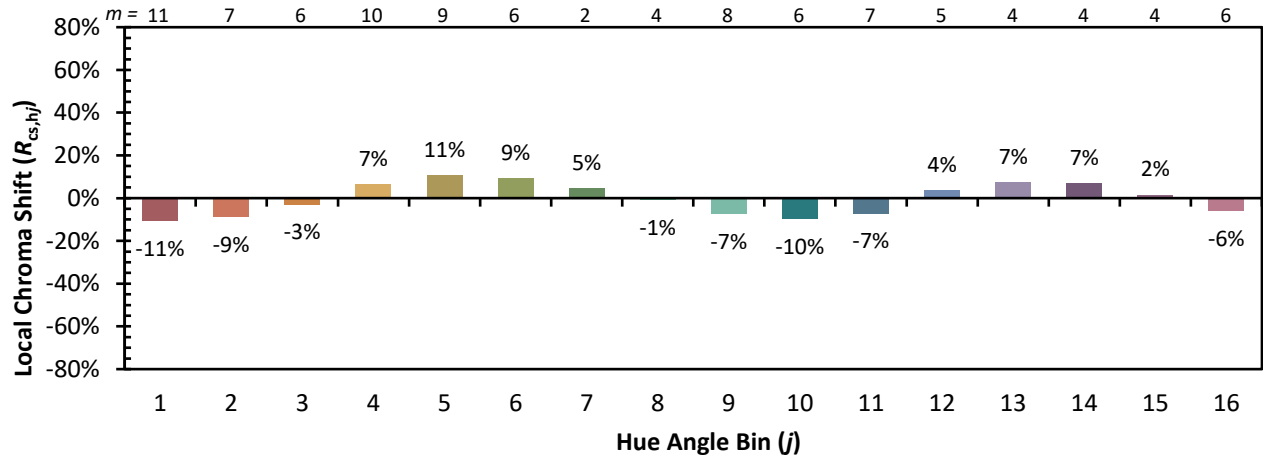
Color Vector Graphics



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)