

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: P321144

Luminaire Tested: **GLEON-SA0D-830-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321144
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA0D-830-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 62610 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

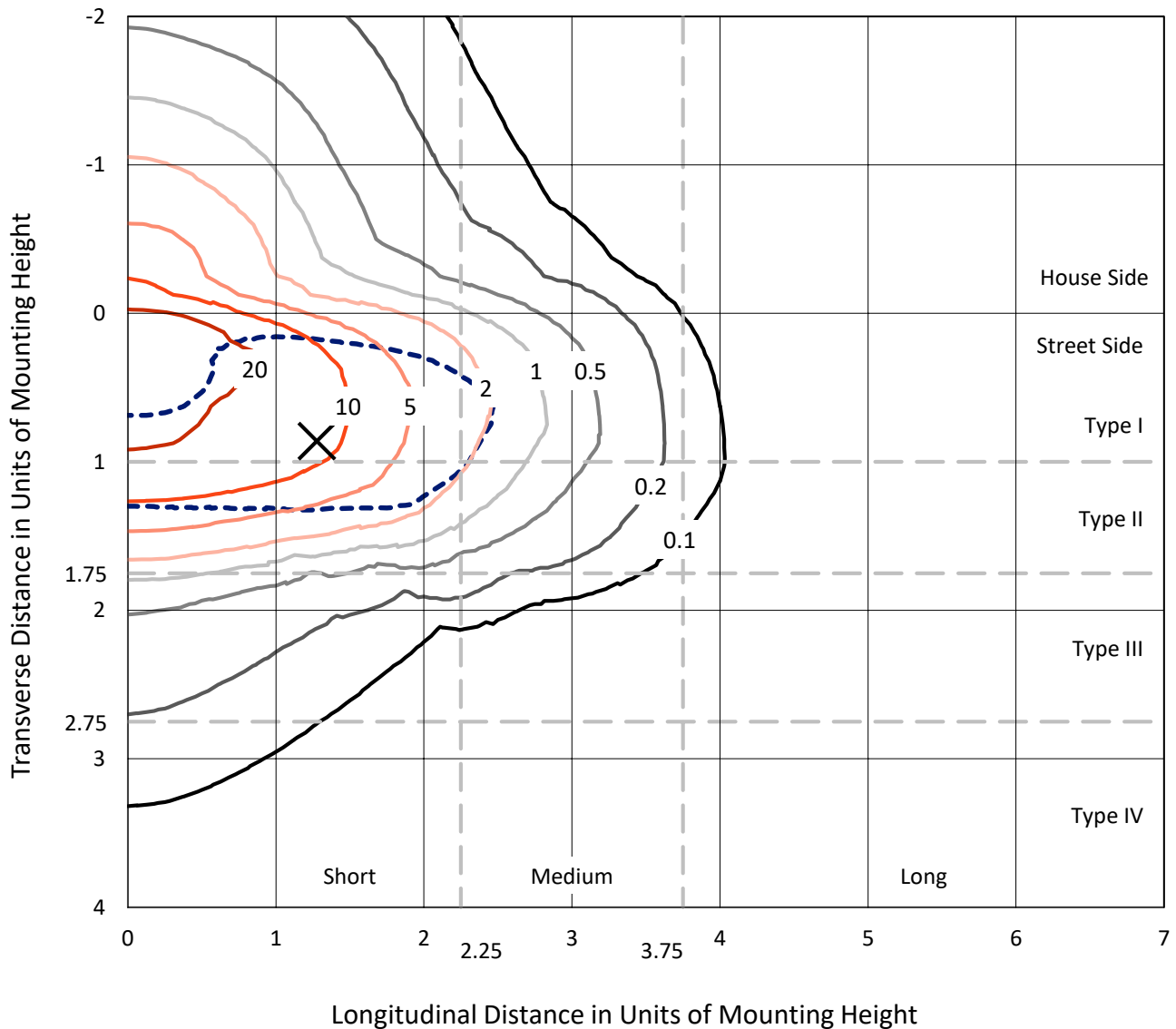
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

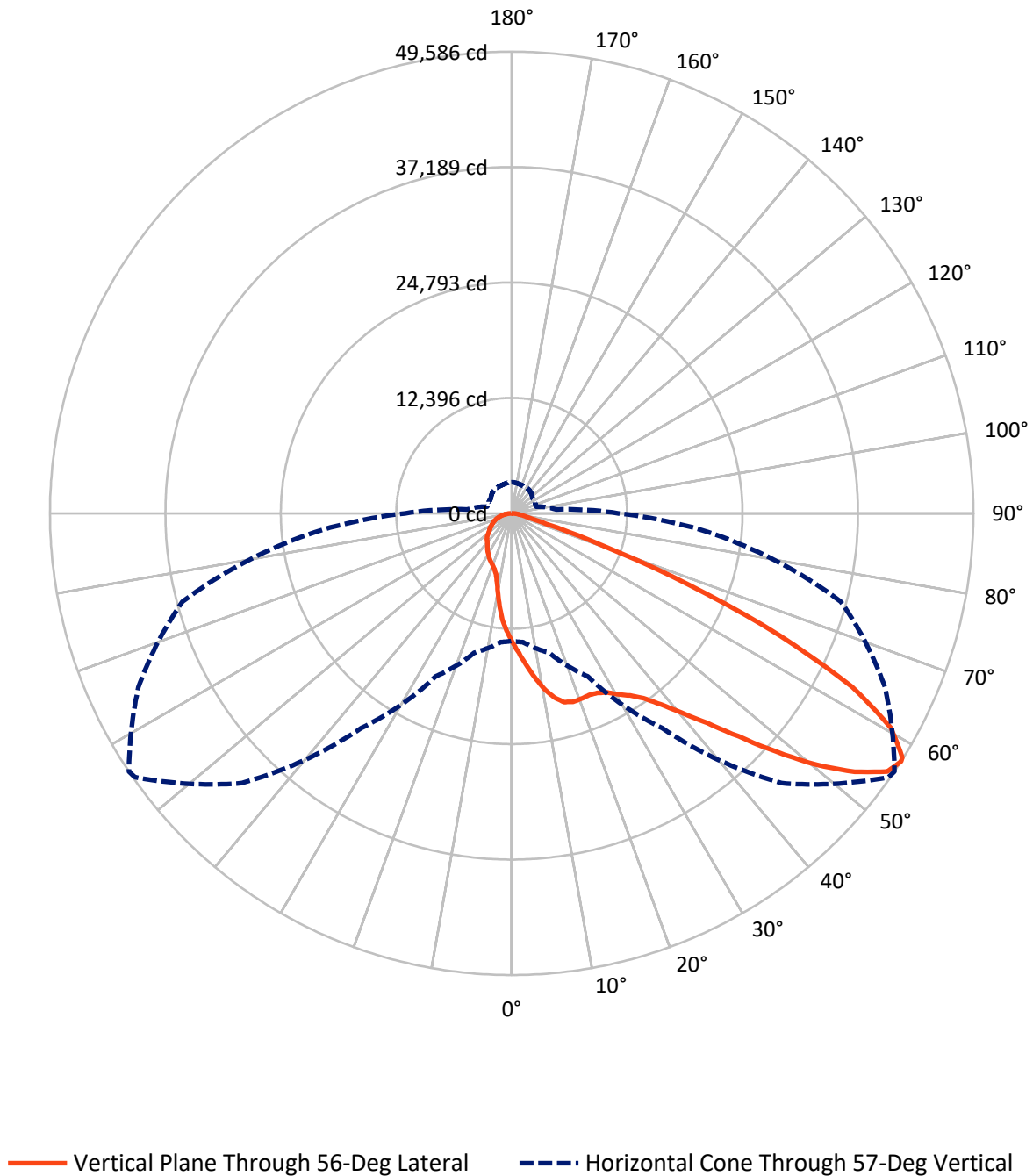
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 30.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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CATALOG NUMBER: GLEON-SA0D-830-U-AFL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10792.6	0.0	10792.6
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	51817.4	0.0	51817.4
	% Fixture	82.8	0.0	82.8
Total	Lumens	62610.0	0.0	62610.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1326.6	2.1
10°-20°	3750.5	6.0
20°-30°	6108.8	9.8
30°-40°	9132.0	14.6
40°-50°	13851.3	22.1
50°-60°	15524.8	24.8
60°-70°	9169.6	14.6
70°-80°	3004.3	4.8
80°-90°	742.2	1.2
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°	62610.0	100.0
0°-180°	62610.0	100.0

Coefficient of Utilization



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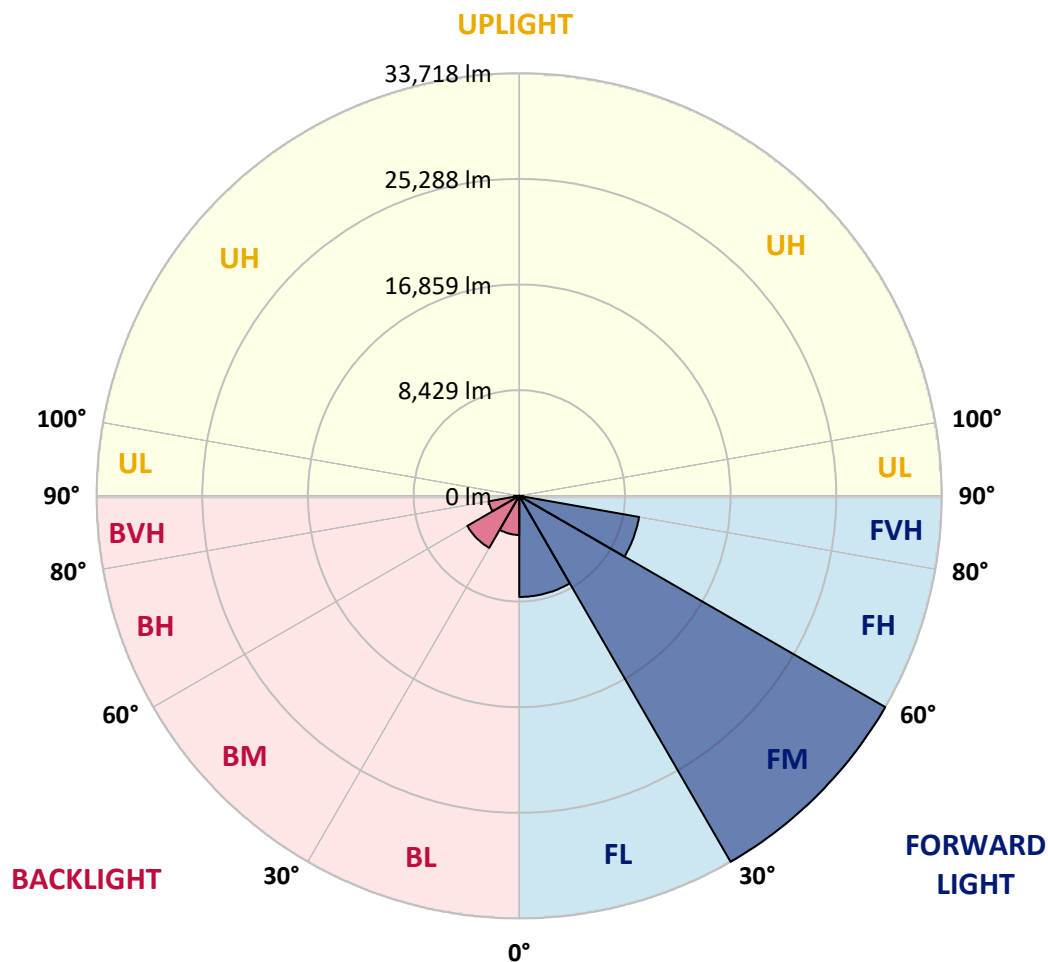
CATALOG NUMBER: GLEON-SA0D-830-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	8065.1	12.9			
FM	(30°-60°)	33717.6	53.9			
FH	(60°-80°)	9707.9	15.5			G4/12000
FVH	(80°-90°)	326.8	0.5			G3/500
BL	(0°-30°)	3120.7	5.0	B4/5000		
BM	(30°-60°)	4790.5	7.7	B3/5000		
BH	(60°-80°)	2466.0	3.9	B3/2500		G3/2500
BVH	(80°-90°)	415.4	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	13887.0	13887.0	13887.0	13887.0	13887.0	13887.0	13887.0	13887.0	13887.0	13887.0	13887.0
2.5°	15946.1	16092.4	16027.9	15804.1	15632.0	15388.8	15117.7	15036.0	14749.8	14429.2	14044.0
5°	18470.0	18396.9	18291.4	17942.9	17574.9	17146.8	16466.8	16359.2	15722.3	14997.2	14231.2
7.5°	19907.4	19900.9	19838.5	19634.1	19298.4	18739.0	17919.2	17792.3	16830.5	15664.2	14476.5
10°	19698.6	19683.6	19786.9	19999.9	20101.0	19984.8	19294.1	19167.2	17985.9	16402.3	14760.5
12.5°	18513.1	18521.7	18687.4	19134.9	19743.8	20475.4	20363.5	20301.1	19184.4	17237.1	15104.8
15°	17590.0	17609.4	17740.6	18130.1	18848.7	20176.3	21013.3	21034.8	20344.2	18158.0	15507.2
17.5°	17185.5	17226.4	17286.6	17559.9	18218.3	19580.3	21168.2	21284.4	21359.7	19113.4	15894.5
20°	17314.6	17353.3	17370.5	17544.8	18084.9	19218.8	21060.7	21269.4	22138.7	20012.8	16281.8
22.5°	17893.4	17917.1	17927.8	17973.0	18392.6	19322.1	20989.7	21209.1	22702.4	20819.7	16574.4
25°	18853.0	18835.8	18767.0	18708.9	18990.7	19730.9	21153.2	21361.9	23160.7	21551.2	16765.9
27.5°	20002.0	19980.5	19847.1	19687.9	19849.3	20367.8	21624.4	21790.1	23571.7	22235.5	16862.7
30°	21381.3	21325.3	21073.6	20884.2	20946.6	21323.2	22401.2	22551.8	24206.4	23012.2	16957.4
32.5°	22975.7	22915.4	22551.8	22237.6	22237.6	22551.8	23201.6	23326.4	24744.3	23890.1	17110.2
35°	24972.4	24897.1	24423.7	23896.6	23748.1	23907.3	24292.5	24380.7	25712.6	24996.1	17387.7
37.5°	27326.4	27225.2	26612.0	25906.3	25581.3	25572.7	25850.3	26031.0	27259.7	26448.5	17859.0
40°	29686.8	29615.7	29080.0	28524.8	27887.9	27683.5	28111.7	28167.7	29282.2	28251.6	18461.4
42.5°	31511.4	31498.5	31399.5	31472.7	30820.7	30407.6	30743.2	30788.4	31752.4	30203.2	19102.6
45°	32475.3	32496.9	32976.7	34039.6	34280.6	33979.4	34145.0	34158.0	34575.4	32171.9	19690.0
47.5°	31702.9	31814.8	33028.3	35405.9	37379.0	38379.6	38104.1	38263.4	37312.3	33863.2	20150.5
50°	28692.7	28830.4	30896.0	34797.0	38824.9	42637.7	42493.6	42457.0	39519.9	35102.5	20400.1
52.5°	24963.8	25071.4	26775.5	31631.9	37764.2	44991.7	46315.0	46125.6	41482.3	36029.9	20447.4
55°	19285.5	19453.4	21086.5	25314.5	33473.7	44092.3	49125.0	48955.1	43270.3	36516.2	20391.5
57°	13710.5	13887.0	15509.3	19320.0	28159.1	40978.8	49404.8	49585.5	44236.4	36598.0	20453.9
57.5°	12234.5	12415.2	14022.5	17723.4	26502.3	39853.5	49163.8	49465.0	44410.7	36585.0	20488.3
60°	6160.3	6229.1	7253.3	9893.4	16753.0	32219.3	46020.2	46796.9	44567.8	35952.5	20636.8
62.5°	3830.0	3780.5	3748.2	4557.3	8150.6	21366.2	39532.9	41028.3	41561.9	34420.5	20277.5
65°	3367.4	3274.9	2919.8	2855.3	3599.8	10377.6	29770.7	31631.9	35139.1	32006.3	19421.1
67.5°	3163.0	3072.6	2672.4	2431.4	2433.6	4114.0	18482.9	20578.7	27373.7	27924.5	17400.7
70°	2952.1	2870.3	2496.0	2211.9	2072.1	2278.6	8503.4	10093.5	17843.9	21949.3	14543.2
72.5°	2681.0	2625.1	2270.0	1977.4	1828.9	1706.3	3255.5	3845.1	10330.2	14741.2	10100.0
75°	2397.0	2345.3	2041.9	1762.2	1581.5	1342.6	1833.2	1975.2	5248.0	7541.6	4972.5
77.5°	2085.0	2054.9	1816.0	1557.8	1413.7	1112.4	1297.5	1366.3	2250.7	3234.0	2493.8
80°	1658.9	1717.0	1587.9	1387.8	1254.4	890.8	918.8	964.0	1310.4	1579.3	1415.8
82.5°	1080.1	1181.3	1243.7	1127.5	1032.8	701.4	660.6	679.9	854.2	964.0	615.4
85°	449.7	505.6	817.6	738.0	686.4	512.1	443.2	451.9	529.3	548.7	251.7
87.5°	200.1	213.0	359.3	337.8	290.5	176.4	189.3	206.6	281.9	266.8	96.8
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°	13887.0	13887.0	13887.0	13887.0	13887.0	13887.0	13887.0	13887.0	13887.0	13887.0	13887.0
2.5°	13899.9	13719.1	13409.3	13067.2	12787.4	12563.7	12337.7	12182.8	12002.1	11905.3	11855.8
5°	13910.6	13555.6	12903.6	12234.5	11636.3	11089.8	10569.1	10168.8	9794.5	9592.2	9536.3
7.5°	13955.8	13422.2	12367.9	11266.2	10203.3	9232.9	8484.1	8015.0	7677.2	7526.6	7483.5
10°	13992.4	13265.1	11705.1	10074.2	8628.2	7644.9	7064.0	6801.5	6685.3	6665.9	6646.5
12.5°	14078.5	13103.7	11008.0	8830.5	7403.9	6724.0	6521.7	6504.5	6536.8	6584.1	6584.1
15°	14214.0	12944.5	10211.9	7763.3	6625.0	6386.2	6427.1	6521.7	6610.0	6683.1	6693.9
17.5°	14313.0	12748.7	9355.5	6909.1	6209.8	6274.3	6420.6	6554.0	6644.4	6715.4	6721.9
20°	14384.0	12445.3	8441.0	6257.1	5970.9	6171.0	6353.9	6472.3	6534.7	6605.7	6616.4
22.5°	14347.4	12038.7	7629.9	5790.2	5777.3	6020.4	6194.7	6336.7	6289.4	6220.5	6265.7
25°	14171.0	11479.2	6795.0	5441.6	5572.9	5818.1	6033.3	5938.6	5779.4	5749.3	5766.5
27.5°	13856.8	10764.9	6022.6	5118.9	5336.2	5631.0	5618.0	5523.4	5467.4	5428.7	5452.4
30°	13519.0	9990.3	5346.9	4837.0	5073.7	5316.8	5267.3	5265.2	5209.2	5146.8	5176.9
32.5°	13185.5	9211.4	4811.2	4604.6	4875.7	4908.0	5015.6	5047.8	4938.1	4806.9	4798.3
35°	12895.0	8475.5	4404.5	4393.7	4636.9	4641.2	4798.3	4753.1	4479.8	4344.2	4344.2
37.5°	12677.7	7741.8	4094.7	4204.4	4322.7	4434.6	4514.2	4327.0	4281.8	4206.5	4204.4
40°	12583.0	7096.2	3901.0	4060.2	4101.1	4243.1	4038.7	4111.9	4133.4	4094.7	4094.7
42.5°	12484.1	6534.7	3733.2	3950.5	3944.0	3924.7	3821.4	3916.1	4002.1	4004.3	3997.8
45°	12385.1	6050.5	3584.7	3716.0	3806.3	3597.6	3617.0	3718.1	3838.6	3881.6	3881.6
47.5°	12275.3	5667.5	3449.1	3468.5	3608.4	3468.5	3453.4	3530.9	3672.9	3741.8	3756.8
50°	12034.4	5323.3	3294.2	3251.2	3289.9	3337.3	3350.2	3386.7	3543.8	3653.6	3679.4
52.5°	11700.8	5015.6	3096.3	3051.1	3051.1	3229.7	3289.9	3300.7	3434.1	3565.3	3591.2
55°	11423.3	4819.8	2891.9	2883.3	2874.6	3115.6	3218.9	3236.1	3328.7	3431.9	3444.8
57°	11442.6	4804.7	2734.8	2743.4	2741.2	2999.4	3152.2	3188.8	3236.1	3324.3	3339.4
57.5°	11453.4	4815.5	2700.4	2704.7	2702.5	2967.2	3132.8	3173.7	3210.3	3302.8	3317.9
60°	11614.8	4843.4	2560.5	2513.2	2523.9	2795.0	3023.1	3074.8	3098.4	3221.1	3240.4
62.5°	11375.9	4718.6	2448.6	2334.6	2334.6	2614.3	2870.3	2952.1	2988.7	3154.4	3186.6
65°	10683.1	4367.9	2317.4	2132.3	2153.8	2433.6	2687.5	2820.9	2876.8	3083.4	3117.8
67.5°	9613.7	3961.2	2177.5	1951.6	1973.1	2244.2	2498.1	2642.3	2730.5	3005.9	3033.9
70°	8221.6	3464.2	1988.2	1760.1	1785.9	2037.6	2274.3	2437.9	2569.1	2932.7	2941.3
72.5°	6061.3	2840.2	1723.5	1549.2	1577.2	1796.7	2048.4	2237.7	2414.2	2749.8	2745.5
75°	3604.1	2220.5	1430.9	1336.2	1355.6	1560.0	1844.0	2074.2	2338.9	2678.8	2719.7
77.5°	2186.1	1671.9	1166.2	1118.9	1142.5	1351.3	1697.7	1943.0	2306.6	2526.1	2513.2
80°	1321.1	1194.2	931.7	901.6	925.2	1155.5	1570.7	1844.0	2016.1	2158.1	2158.1
82.5°	690.7	729.4	684.2	660.6	692.8	938.1	1428.7	1609.5	1781.6	1529.8	1428.7
85°	281.9	380.8	415.3	413.1	432.5	649.8	1232.9	1377.1	1149.0	1090.9	1116.7
87.5°	94.7	161.4	202.3	174.3	182.9	408.8	854.2	664.9	789.7	550.8	522.9
90°	0.0	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

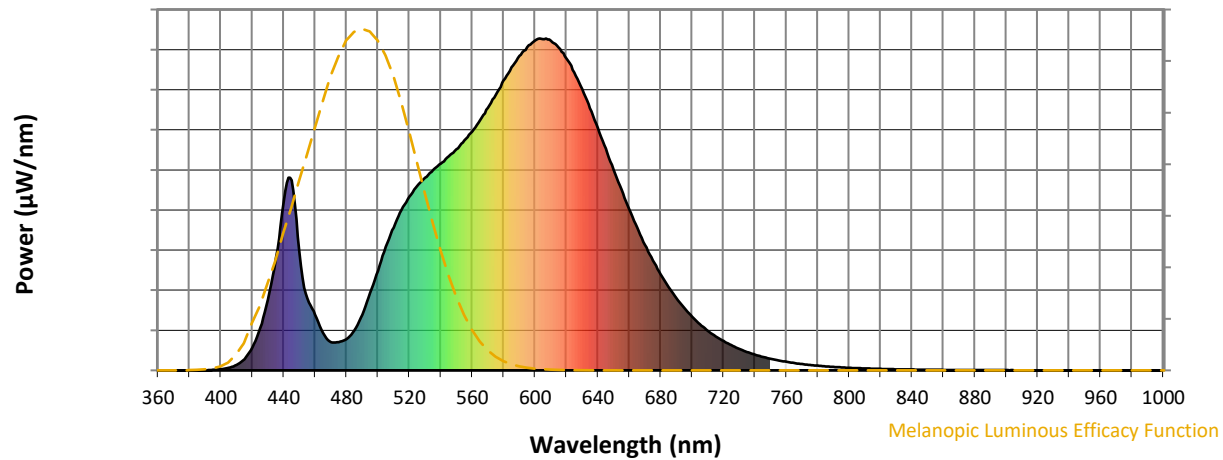


Scotopic Lumens: NR

S/P: 1.27

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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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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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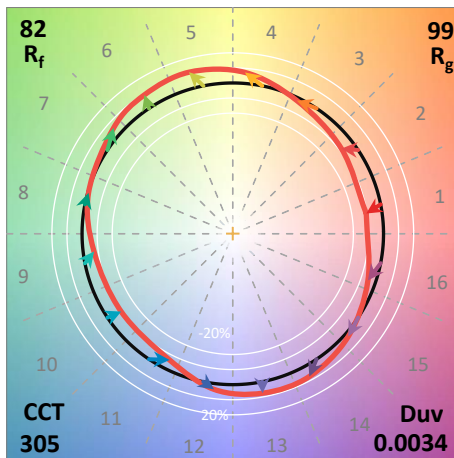
TM-30-18

Summary

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



Color Vector Graphics

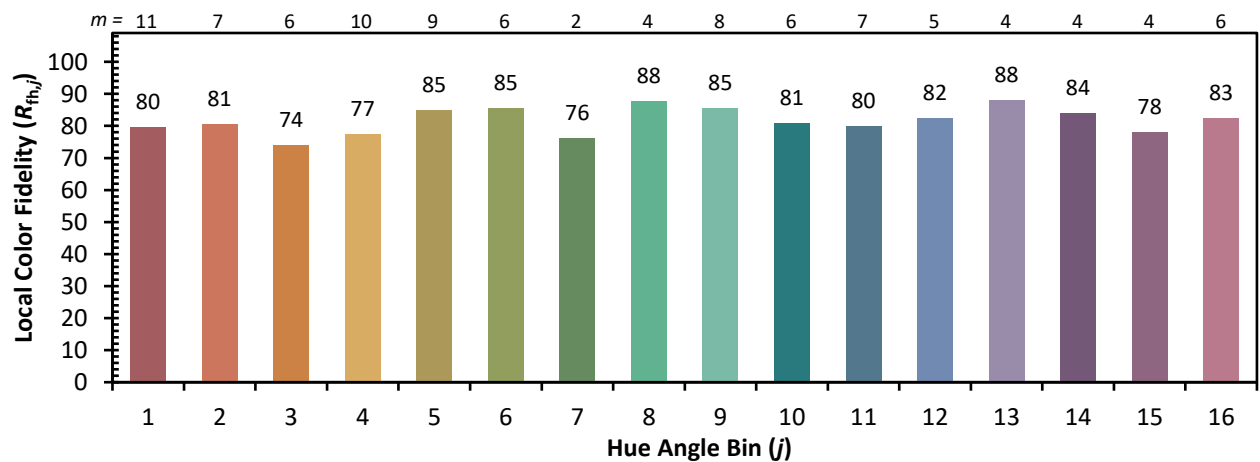
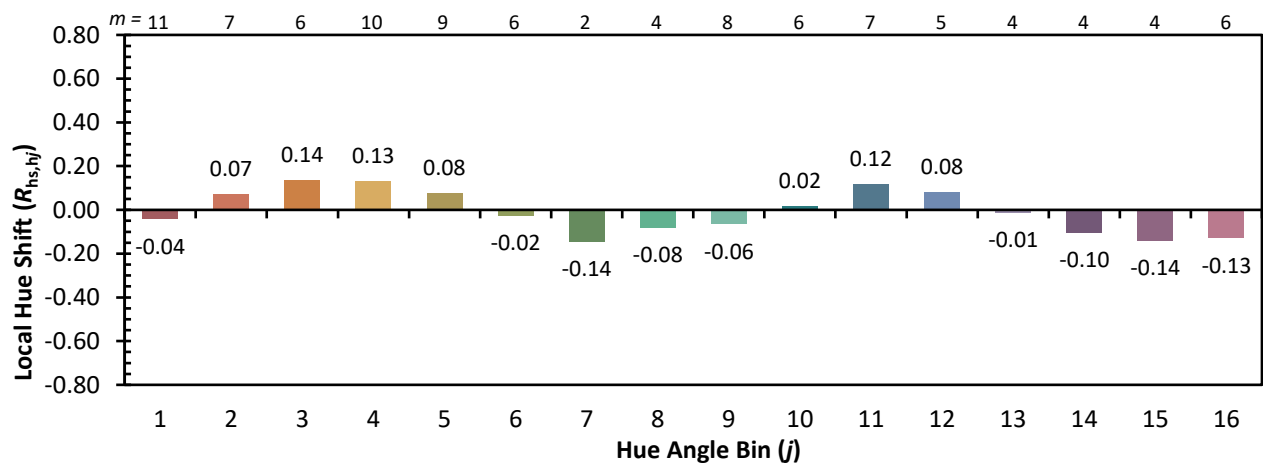
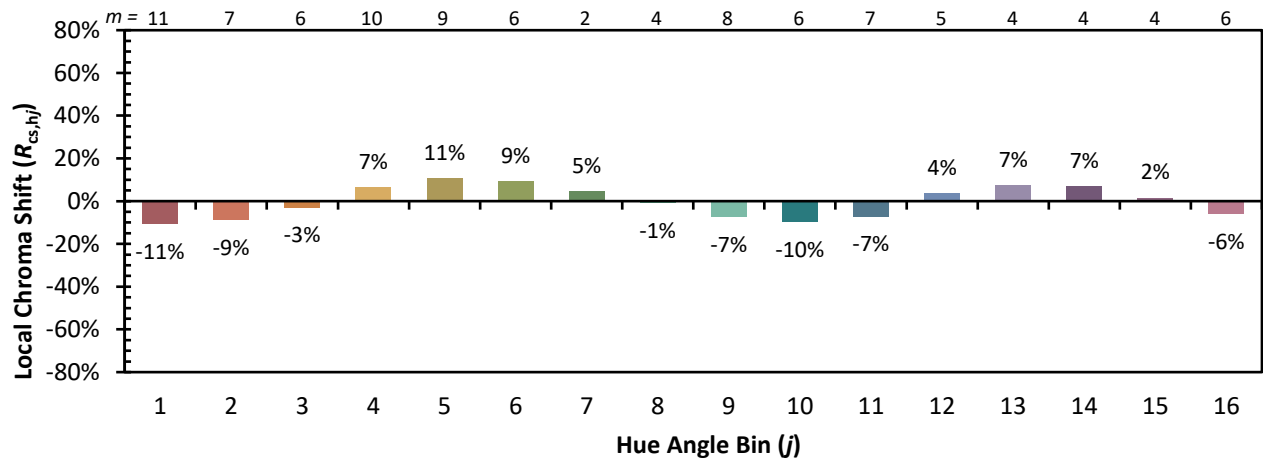


Individual Sample Fidelity Index ($R_{f,i}$)

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)