

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: P321143

Luminaire Tested: **GLEON-SA9D-830-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321143
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-SA9D-830-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 56549 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

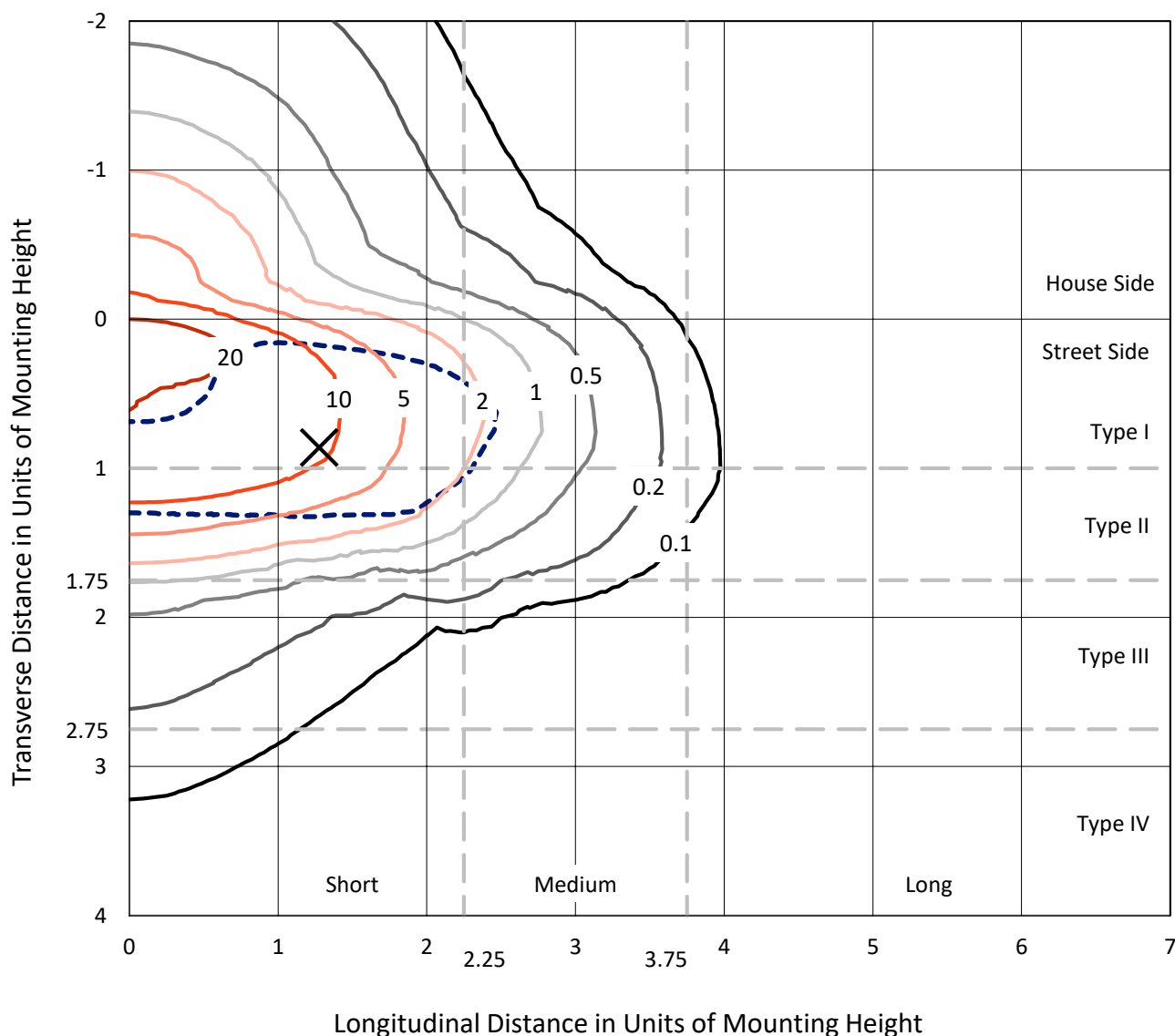
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

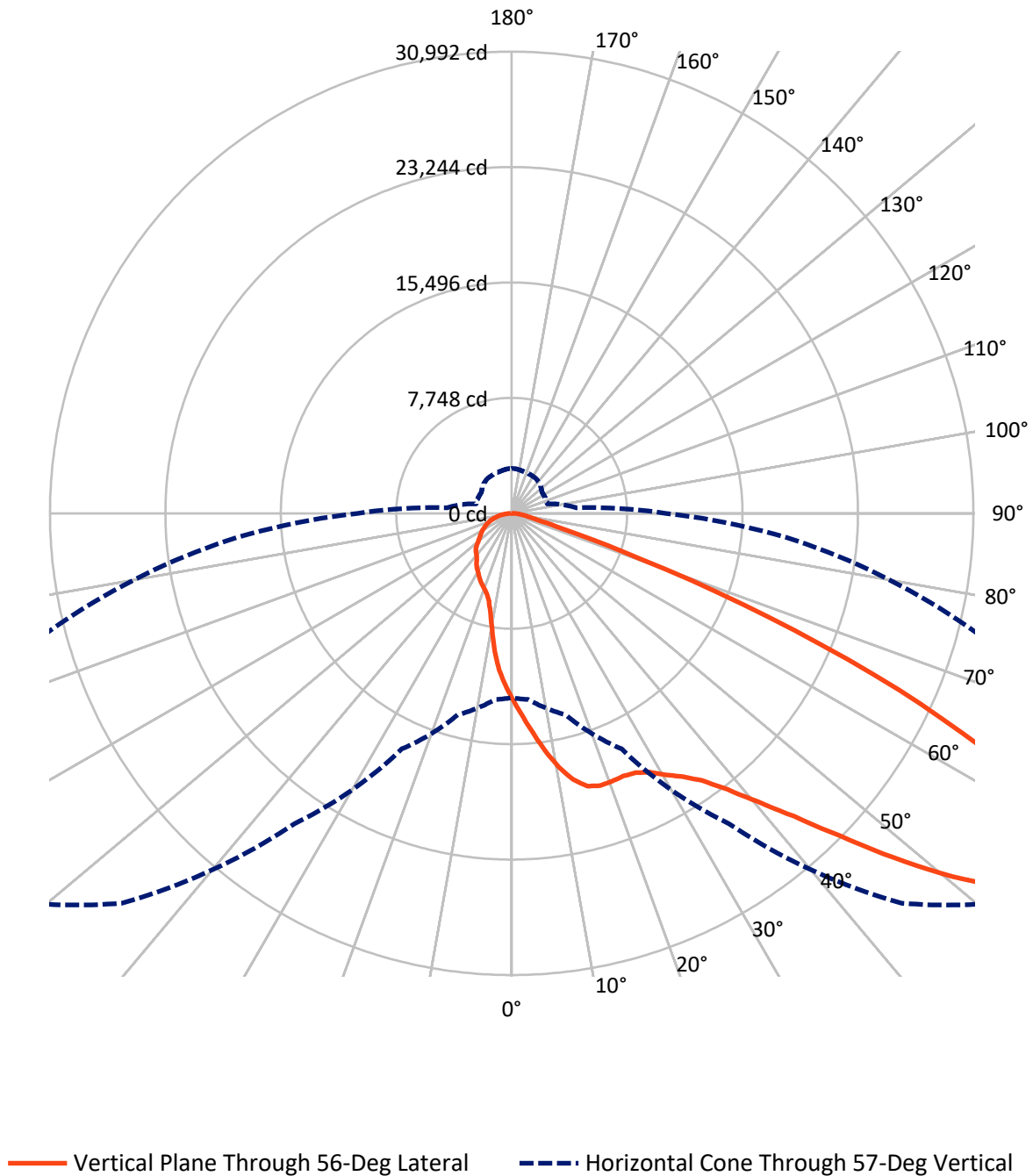
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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CATALOG NUMBER: GLEON-SA9D-830-U-AFL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9747.8	0.0	9747.8
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	46801.2	0.0	46801.2
	% Fixture	82.8	0.0	82.8
Total	Lumens	56549.0	0.0	56549.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1198.1	2.1
10°-20°	3387.4	6.0
20°-30°	5517.4	9.8
30°-40°	8247.9	14.6
40°-50°	12510.4	22.1
50°-60°	14021.9	24.8
60°-70°	8281.9	14.6
70°-80°	2713.5	4.8
80°-90°	670.4	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°	56549.0	100.0
0°-180°	56549.0	100.0

Coefficient of Utilization



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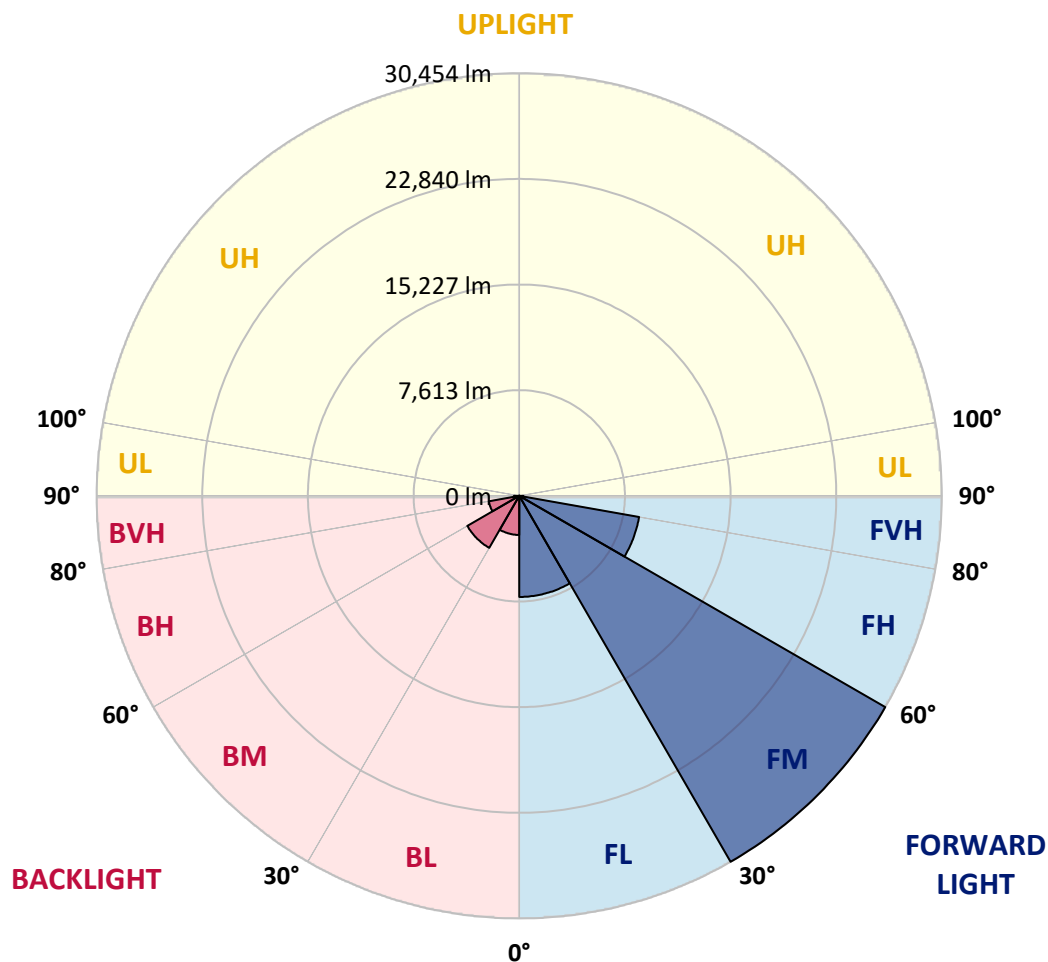
CATALOG NUMBER: GLEON-SA9D-830-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7284.4	12.9			
FM	(30°-60°)	30453.5	53.9			
FH	(60°-80°)	8768.1	15.5			G4/12000
FVH	(80°-90°)	295.2	0.5			G3/500
BL	(0°-30°)	2818.6	5.0	B4/5000		
BM	(30°-60°)	4326.7	7.7	B3/5000		
BH	(60°-80°)	2227.3	3.9	B3/2500		G3/2500
BVH	(80°-90°)	375.2	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°	12542.6	12542.6	12542.6	12542.6	12542.6	12542.6	12542.6	12542.6	12542.6	12542.6	12542.6
2.5°	14402.4	14534.6	14476.3	14274.2	14118.7	13899.1	13654.2	13580.4	13321.9	13032.4	12684.5
5°	16682.0	16616.0	16520.7	16205.9	15873.6	15486.9	14872.7	14775.6	14200.3	13545.4	12853.6
7.5°	17980.2	17974.4	17918.0	17733.4	17430.2	16925.0	16184.5	16069.9	15201.2	14147.9	13075.1
10°	17791.7	17778.1	17871.4	18063.8	18155.1	18050.2	17426.4	17311.7	16244.8	14814.4	13331.6
12.5°	16720.9	16728.7	16878.3	17282.5	17832.5	18493.3	18392.2	18335.9	17327.2	15568.5	13642.6
15°	15887.2	15904.7	16023.2	16375.0	17024.1	18223.1	18979.1	18998.6	18374.7	16400.2	14006.0
17.5°	15521.8	15558.8	15613.2	15860.0	16454.7	17684.8	19119.0	19224.0	19292.0	17263.1	14355.8
20°	15638.4	15673.4	15689.0	15846.4	16334.2	17358.3	19021.9	19210.4	19995.5	18075.4	14705.6
22.5°	16161.2	16182.6	16192.3	16233.1	16612.1	17451.6	18957.7	19156.0	20504.7	18804.2	14969.9
25°	17028.0	17012.4	16950.2	16897.7	17152.3	17820.9	19105.4	19293.9	20918.6	19465.0	15142.9
27.5°	18065.7	18046.3	17925.8	17782.0	17927.7	18396.1	19531.0	19680.7	21289.8	20083.0	15230.3
30°	19311.4	19260.9	19033.5	18862.5	18918.9	19259.0	20232.6	20368.6	21863.1	20784.5	15315.8
32.5°	20751.5	20697.1	20368.6	20084.9	20084.9	20368.6	20955.5	21068.3	22349.0	21577.4	15453.8
35°	22554.9	22486.9	22059.4	21583.3	21449.2	21593.0	21940.8	22020.5	23223.5	22576.3	15704.5
37.5°	24681.0	24589.7	24035.8	23398.4	23104.9	23097.2	23347.9	23511.1	24620.8	23888.1	16130.1
40°	26812.9	26748.8	26264.9	25763.5	25188.2	25003.6	25390.4	25440.9	26447.6	25516.7	16674.3
42.5°	28460.9	28449.2	28359.8	28425.9	27837.1	27463.9	27767.1	27807.9	28678.6	27279.3	17253.4
45°	29331.5	29351.0	29784.3	30744.4	30962.0	30690.0	30839.6	30851.3	31228.3	29057.5	17783.9
47.5°	28633.9	28734.9	29831.0	31978.4	33760.5	34664.2	34415.4	34559.3	33700.3	30585.0	18199.8
50°	25915.1	26039.4	27905.1	31428.5	35066.5	38510.2	38379.9	38346.9	35694.2	31704.4	18425.3
52.5°	22547.2	22644.3	24183.5	28569.7	34108.4	40636.2	41831.4	41660.4	37466.6	32542.0	18468.0
55°	17418.6	17570.2	19045.2	22863.9	30233.3	39823.9	44369.5	44215.9	39081.5	32981.2	18417.5
57°	12383.3	12542.6	14007.9	17449.7	25433.1	37011.8	44622.1	44785.4	39954.1	33055.1	18473.8
57.5°	11050.1	11213.3	12665.1	16007.7	23936.7	35995.4	44404.4	44676.5	40111.5	33043.4	18504.9
60°	5563.9	5626.1	6551.2	8935.7	15131.2	29100.3	41565.2	42266.7	40253.4	32472.1	18639.0
62.5°	3459.2	3414.5	3385.4	4116.1	7361.5	19297.8	35705.8	37056.5	37538.5	31088.4	18314.5
65°	3041.4	2957.8	2637.2	2578.9	3251.3	9373.0	26888.7	28569.7	31737.5	28907.9	17541.0
67.5°	2856.8	2775.2	2413.7	2196.0	2198.0	3715.8	16693.7	18586.6	24723.8	25221.3	15716.2
70°	2666.3	2592.5	2254.3	1997.8	1871.5	2058.0	7680.3	9116.4	16116.5	19824.5	13135.4
72.5°	2421.5	2370.9	2050.3	1786.0	1651.9	1541.1	2940.3	3472.8	9330.2	13314.1	9122.3
75°	2164.9	2118.3	1844.3	1591.6	1428.4	1212.7	1655.8	1784.0	4739.9	6811.6	4491.2
77.5°	1883.1	1855.9	1640.2	1407.0	1276.8	1004.7	1171.9	1234.1	2032.8	2920.9	2252.4
80°	1498.4	1550.8	1434.2	1253.5	1133.0	804.6	829.8	870.6	1183.5	1426.4	1278.7
82.5°	975.6	1066.9	1123.3	1018.3	932.8	633.5	596.6	614.1	771.5	870.6	555.8
85°	406.2	456.7	738.5	666.6	619.9	462.5	400.3	408.1	478.1	495.6	227.4
87.5°	180.7	192.4	324.5	305.1	262.4	159.4	171.0	186.6	254.6	241.0	87.5
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-SA9D-830-U-AFL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12542.6	12542.6	12542.6	12542.6	12542.6	12542.6	12542.6	12542.6	12542.6	12542.6	12542.6
2.5°	12554.3	12391.0	12111.2	11802.2	11549.5	11347.4	11143.4	11003.5	10840.2	10752.8	10708.1
5°	12564.0	12243.3	11654.5	11050.1	10509.8	10016.2	9545.9	9184.4	8846.3	8663.6	8613.1
7.5°	12604.8	12122.8	11170.6	10175.6	9215.5	8339.1	7662.8	7239.1	6934.0	6798.0	6759.1
10°	12637.8	11981.0	10572.0	9098.9	7793.0	6904.9	6380.1	6143.0	6038.1	6020.6	6003.1
12.5°	12715.6	11835.2	9942.4	7975.7	6687.2	6073.1	5890.4	5874.9	5904.0	5946.8	5946.8
15°	12838.0	11691.4	9223.3	7011.7	5983.7	5768.0	5804.9	5890.4	5970.1	6036.2	6045.9
17.5°	12927.4	11514.6	8449.8	6240.2	5608.6	5666.9	5799.1	5919.6	6001.2	6065.3	6071.1
20°	12991.5	11240.6	7623.9	5651.4	5392.9	5573.6	5738.8	5845.7	5902.1	5966.2	5975.9
22.5°	12958.5	10873.3	6891.3	5229.7	5218.0	5437.6	5595.0	5723.3	5680.5	5618.3	5659.1
25°	12799.1	10368.0	6137.2	4914.8	5033.4	5254.9	5449.3	5363.7	5219.9	5192.7	5208.3
27.5°	12515.4	9722.8	5439.5	4623.3	4819.6	5085.8	5074.2	4988.7	4938.1	4903.2	4924.5
30°	12210.3	9023.1	4829.3	4368.7	4582.5	4802.1	4757.4	4755.5	4704.9	4648.6	4675.8
32.5°	11909.1	8319.6	4345.4	4158.8	4403.7	4432.9	4530.0	4559.2	4460.1	4341.5	4333.8
35°	11646.7	7655.0	3978.1	3968.4	4188.0	4191.9	4333.8	4292.9	4046.1	3923.7	3923.7
37.5°	11450.4	6992.3	3698.3	3797.4	3904.3	4005.3	4077.2	3908.2	3867.3	3799.3	3797.4
40°	11364.9	6409.3	3523.4	3667.2	3704.1	3832.4	3647.7	3713.8	3733.2	3698.3	3698.3
42.5°	11275.5	5902.1	3371.8	3568.1	3562.2	3544.7	3451.5	3537.0	3614.7	3616.6	3610.8
45°	11186.1	5464.8	3237.7	3356.2	3437.9	3249.3	3266.8	3358.2	3467.0	3505.9	3505.9
47.5°	11087.0	5118.9	3115.2	3132.7	3259.1	3132.7	3119.1	3189.1	3317.4	3379.5	3393.2
50°	10869.4	4807.9	2975.3	2936.5	2971.4	3014.2	3025.9	3058.9	3200.8	3299.9	3323.2
52.5°	10568.1	4530.0	2796.5	2755.7	2755.7	2917.0	2971.4	2981.2	3101.6	3220.2	3243.5
55°	10317.4	4353.2	2611.9	2604.1	2596.4	2814.0	2907.3	2922.9	3006.4	3099.7	3111.4
57°	10334.9	4339.6	2470.0	2477.8	2475.9	2709.1	2847.1	2880.1	2922.9	3002.5	3016.1
57.5°	10344.6	4349.3	2439.0	2442.8	2440.9	2679.9	2829.6	2866.5	2899.5	2983.1	2996.7
60°	10490.4	4374.6	2312.6	2269.9	2279.6	2524.5	2730.5	2777.1	2798.5	2909.3	2926.7
62.5°	10274.7	4261.8	2211.6	2108.6	2108.6	2361.2	2592.5	2666.3	2699.4	2849.0	2878.2
65°	9648.9	3945.1	2093.0	1925.9	1945.3	2198.0	2427.3	2547.8	2598.3	2784.9	2816.0
67.5°	8683.1	3577.8	1966.7	1762.7	1782.1	2027.0	2256.3	2386.5	2466.2	2714.9	2740.2
70°	7425.7	3128.9	1795.7	1589.7	1613.0	1840.4	2054.2	2201.9	2320.4	2648.8	2656.6
72.5°	5474.5	2565.3	1556.7	1399.2	1424.5	1622.7	1850.1	2021.1	2180.5	2483.6	2479.8
75°	3255.2	2005.6	1292.4	1206.8	1224.3	1409.0	1665.5	1873.4	2112.5	2419.5	2456.4
77.5°	1974.5	1510.0	1053.3	1010.6	1031.9	1220.4	1533.3	1754.9	2083.3	2281.5	2269.9
80°	1193.2	1078.6	841.5	814.3	835.7	1043.6	1418.7	1665.5	1821.0	1949.2	1949.2
82.5°	623.8	658.8	618.0	596.6	625.8	847.3	1290.4	1453.7	1609.1	1381.7	1290.4
85°	254.6	344.0	375.1	373.1	390.6	586.9	1113.6	1243.8	1037.8	985.3	1008.6
87.5°	85.5	145.8	182.7	157.4	165.2	369.2	771.5	600.5	713.2	497.5	472.2
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
 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

REPORT NUMBER: SP1-2408-195-9

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 $\text{W}^\wedge/\text{nm}$	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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Scotopic Flux vs. Wavelength



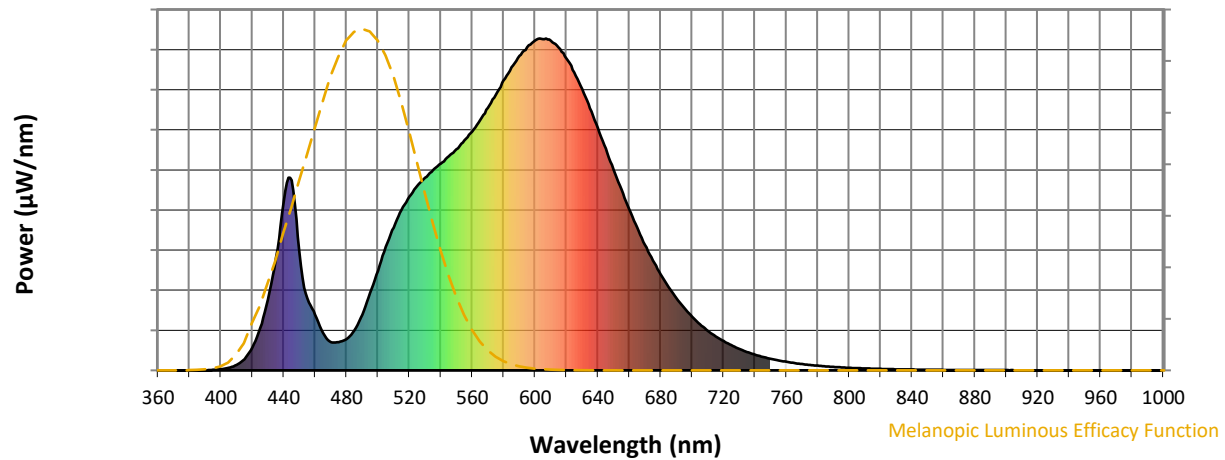
Scotopic Lumens: NR

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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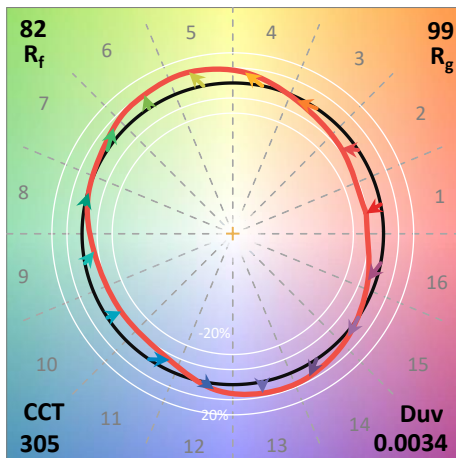
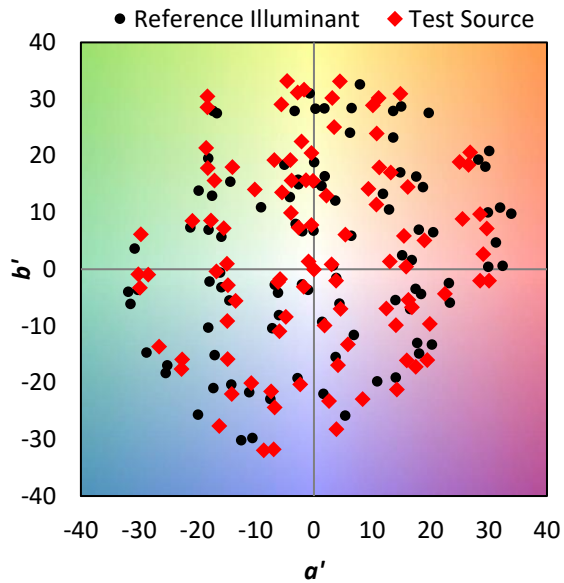
TM-30-18

Summary

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



Color Vector Graphics

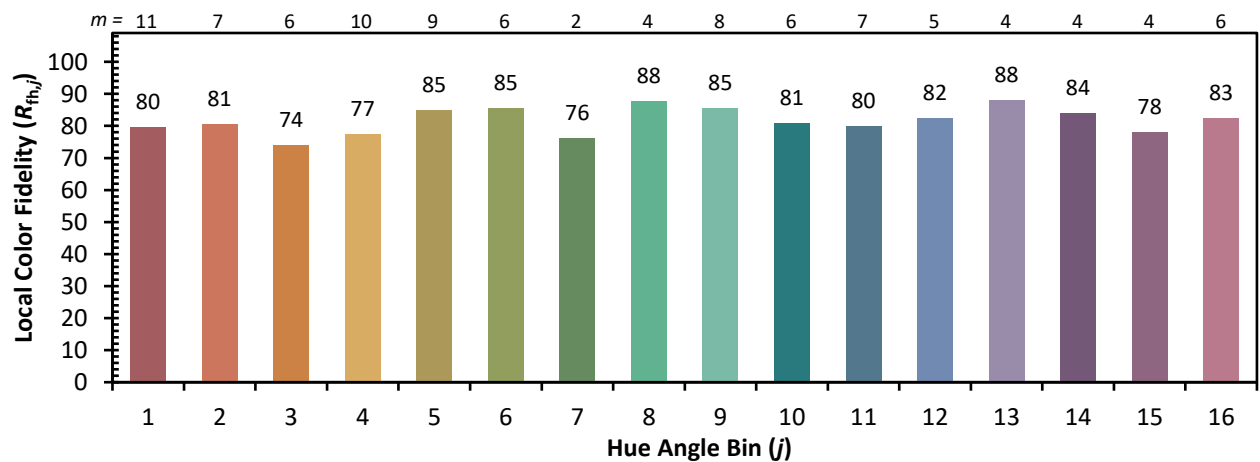
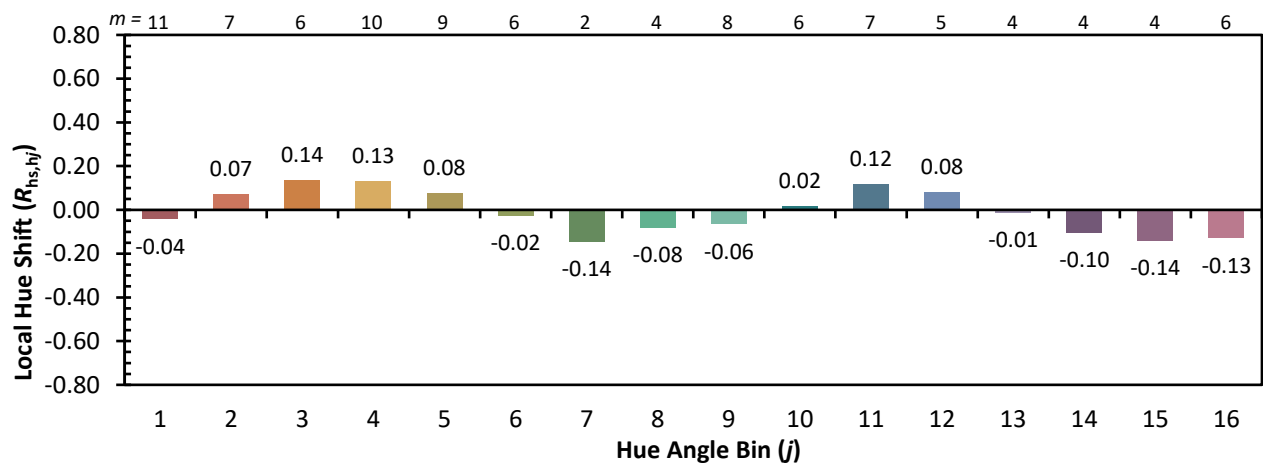
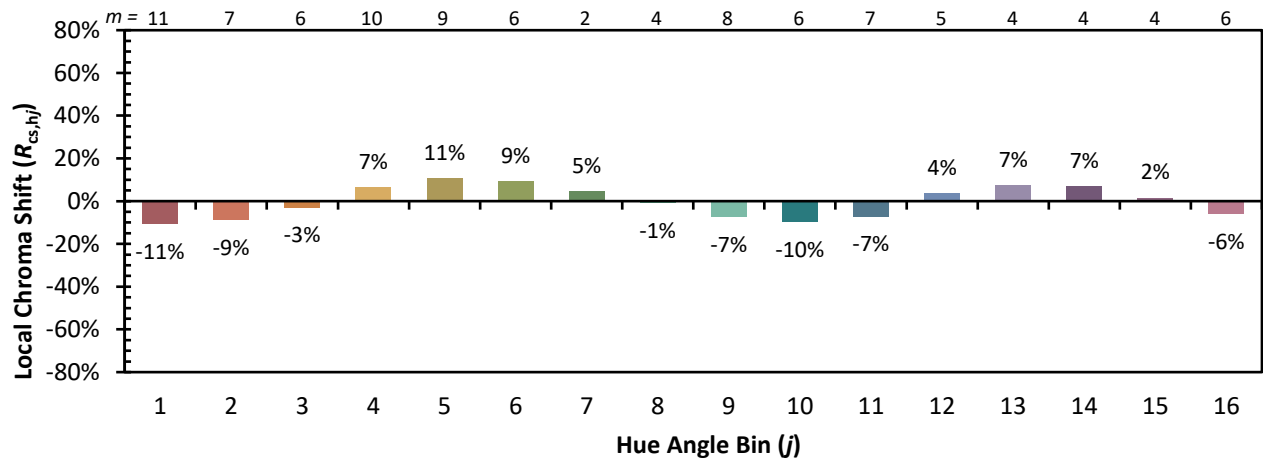


Individual Sample Fidelity Index ($R_{f,i}$)

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)