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

Scaled data based on original data using

LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P635533

Luminaire Tested: GWS-SA3D-830-U-T3R-W

Issue Date: 1/10/2023

Report Generated By 670246102 / DESKTOP-G35701P

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

Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P635533
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA3D-830-U-T3R-W
Description:	GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source:	(48) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	14211.8 lumens
Efficiency:	N/A
Efficacy:	117.6 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B2 - U0 - G3

Input Watts (W):	120.8
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	0
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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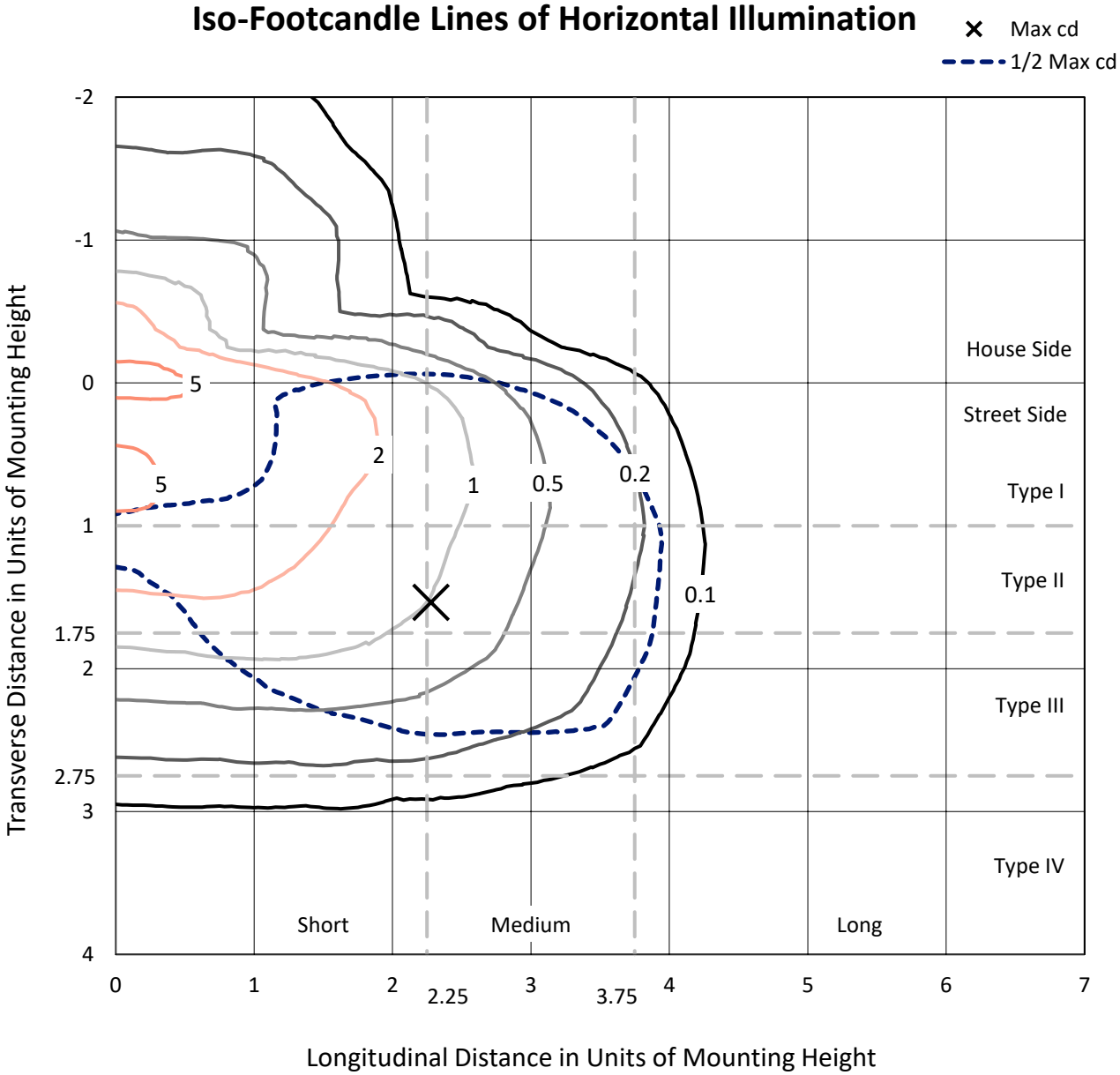
Scaled Data Report

REPORT NUMBER: P635533
CATALOG NUMBER: GWS-SA3D-830-U-T3R-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 5.9 fc
Type III - Medium - N/A

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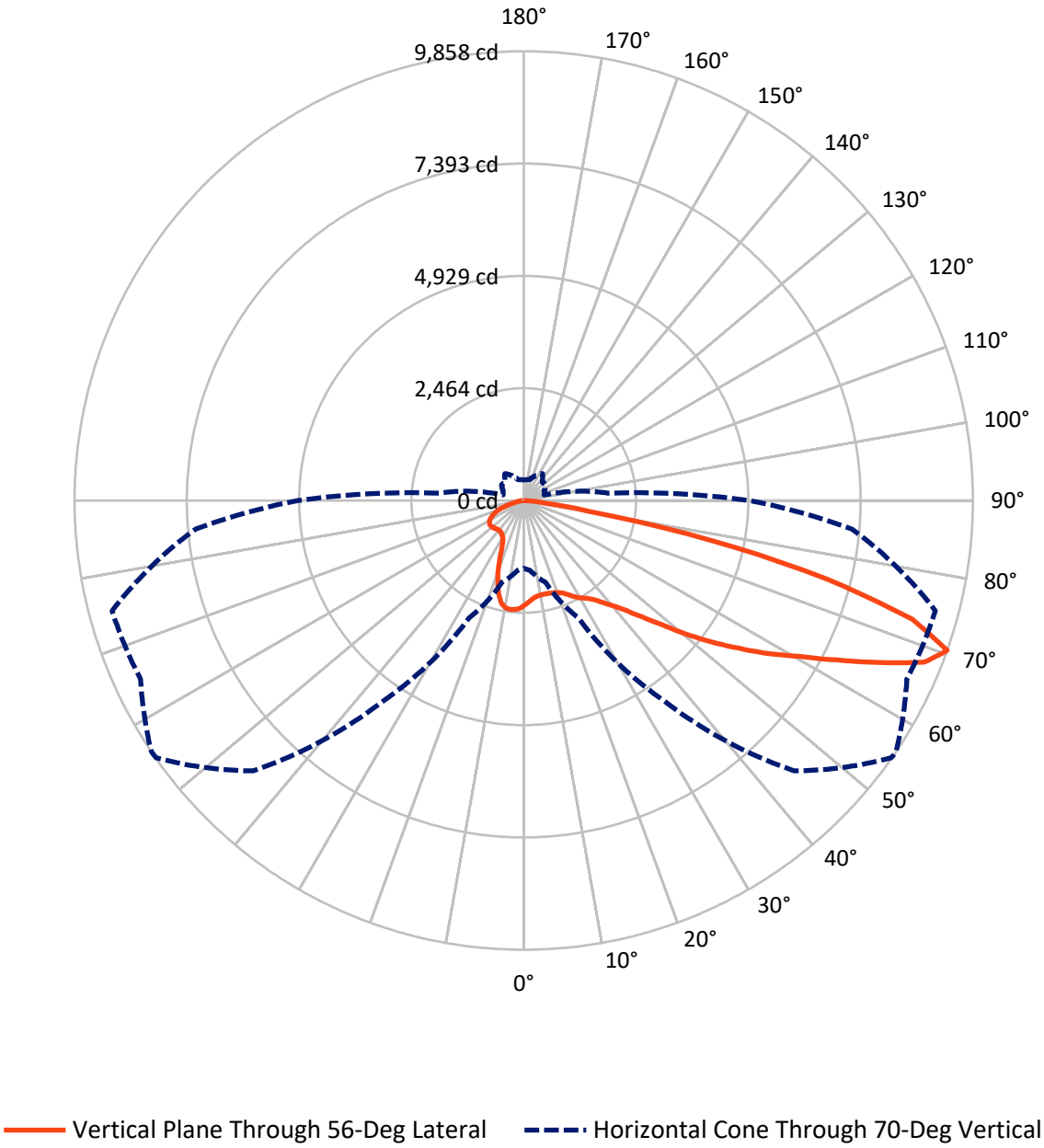
Luminous Intensity Polar Plot



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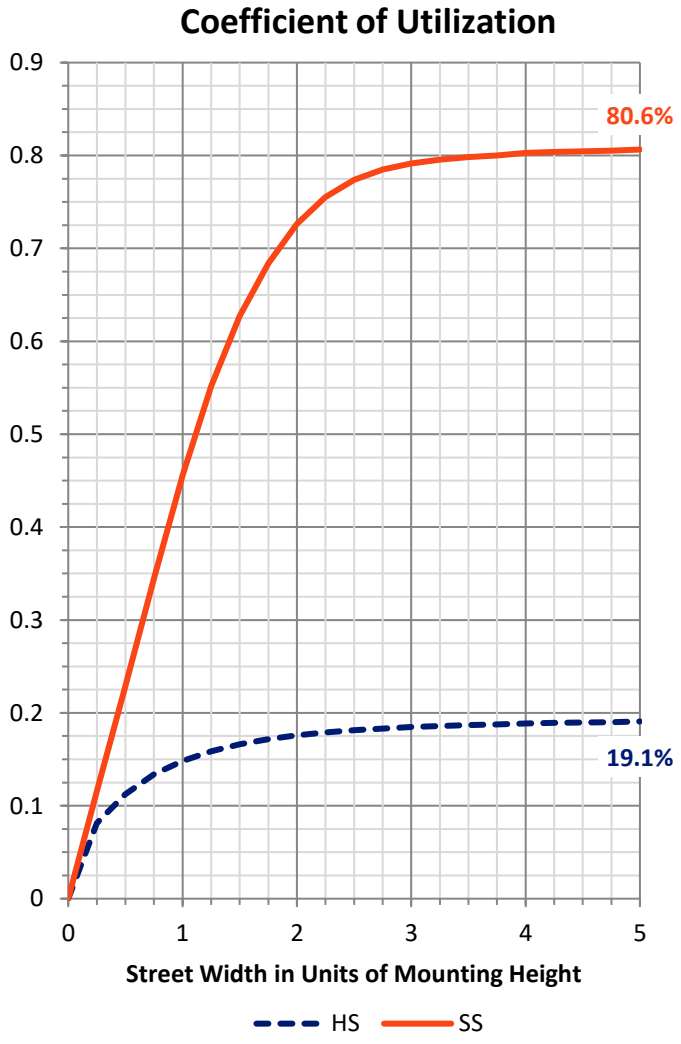
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2732.2	0.0	2732.2
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	11479.6	0.0	11479.6
	% Fixture	80.8	0.0	80.8
Total	Lumens	14211.8	0.0	14211.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.3	1.5
10°-20°	575.2	4.0
20°-30°	950.9	6.7
30°-40°	1421.8	10.0
40°-50°	2115.8	14.9
50°-60°	3008.1	21.2
60°-70°	3725.6	26.2
70°-80°	2057.2	14.5
80°-90°	144.9	1.0
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°	14211.8	100.0
0°-180°	14211.8	100.0



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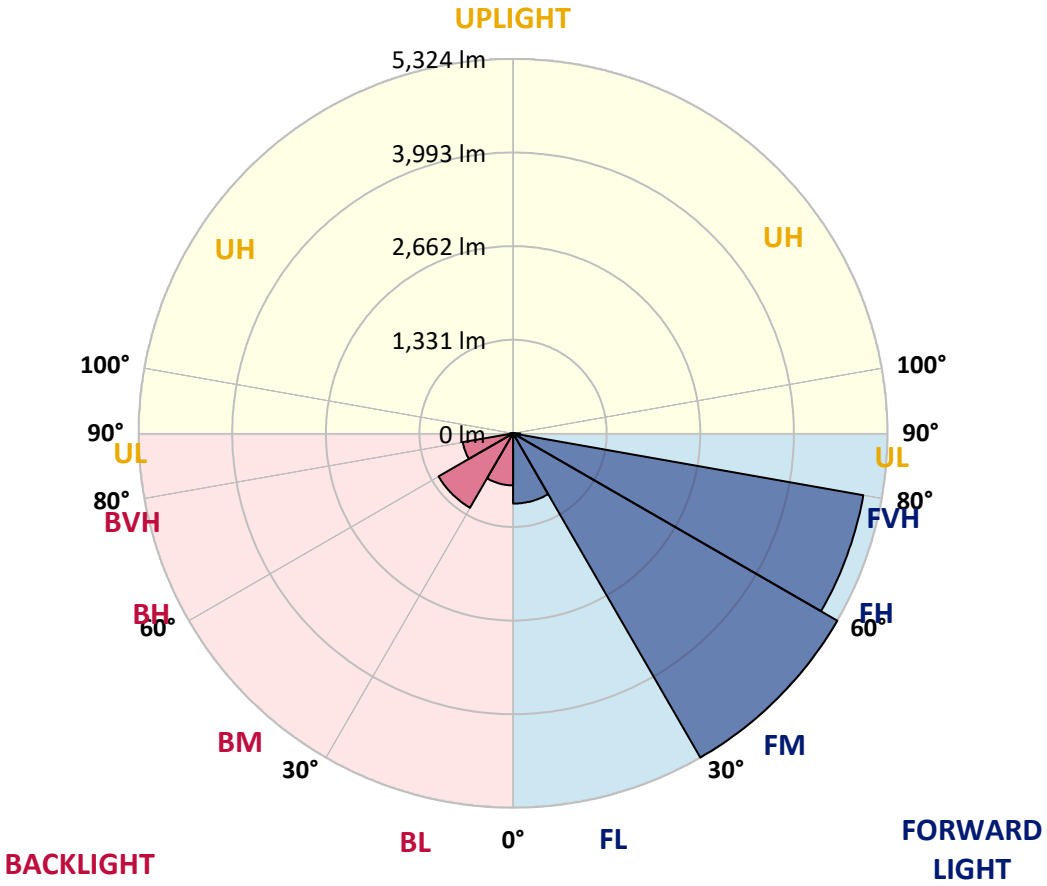
CATALOG NUMBER: GWS-SA3D-830-U-T3R-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	998.8	7.0			
FM	(30°-60°)	5323.5	37.5			
FH	(60°-80°)	5056.6	35.6			G3/7500
FVH	(80°-90°)	100.7	0.7			G2/225
BL	(0°-30°)	739.6	5.2	B2/1000		
BM	(30°-60°)	1222.2	8.6	B2/2500		
BH	(60°-80°)	726.2	5.1	B2/1000		G2/1000
BVH	(80°-90°)	44.2	0.3			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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REPORT NUMBER: P635533
CATALOG NUMBER: GWS-SA3D-830-U-T3R-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2294.0	2294.0	2294.0	2294.0	2294.0	2294.0	2294.0	2294.0	2294.0	2294.0	2294.0
2.5°	2146.7	2134.7	2148.7	2155.7	2173.7	2199.8	2222.8	2223.9	2235.9	2264.9	2293.0
5°	2049.5	2043.5	2047.5	2068.5	2087.6	2120.6	2155.7	2158.7	2192.8	2249.9	2306.0
7.5°	1974.3	1966.3	1981.3	2008.4	2032.4	2069.5	2115.6	2119.6	2167.7	2253.9	2340.1
10°	1866.1	1860.1	1888.1	1924.2	1976.3	2037.4	2098.6	2103.6	2166.7	2280.0	2400.2
12.5°	1819.0	1819.0	1831.0	1865.1	1922.2	2003.4	2095.6	2103.6	2182.8	2320.1	2477.4
15°	1892.1	1897.1	1887.1	1885.1	1908.2	1985.3	2099.6	2111.6	2212.8	2361.1	2553.6
17.5°	2039.4	2044.5	2018.4	1977.3	1954.3	2002.4	2114.6	2127.6	2244.9	2406.2	2635.7
20°	2245.9	2251.9	2194.8	2131.6	2052.5	2051.5	2143.7	2155.7	2286.0	2455.4	2722.9
22.5°	2487.4	2491.4	2419.3	2319.1	2197.8	2142.7	2193.8	2205.8	2339.1	2523.5	2817.1
25°	2767.0	2779.1	2691.9	2546.6	2382.2	2267.9	2277.0	2291.0	2434.3	2614.7	2928.4
27.5°	3065.7	3080.7	2980.5	2820.2	2593.7	2406.2	2384.2	2396.2	2535.5	2670.8	2987.5
30°	3371.4	3382.4	3282.2	3098.8	2821.2	2562.6	2474.4	2481.4	2579.6	2697.9	3047.6
32.5°	3711.1	3702.1	3605.9	3394.4	3083.7	2750.0	2558.6	2556.6	2628.7	2752.0	3133.8
35°	4029.8	4042.8	3940.6	3707.1	3372.4	2981.5	2684.9	2676.8	2733.0	2840.2	3255.1
37.5°	4415.6	4411.6	4289.4	4036.8	3662.0	3203.0	2862.2	2848.2	2868.3	2977.5	3424.5
40°	4691.2	4719.3	4640.1	4404.6	4000.7	3475.6	3069.7	3038.6	3043.6	3146.9	3651.0
42.5°	4916.7	4942.8	4950.8	4800.5	4388.6	3812.3	3328.3	3297.2	3300.2	3446.5	3929.6
45°	5090.1	5125.2	5238.4	5194.3	4825.5	4201.2	3678.0	3646.0	3648.0	3810.3	4266.3
47.5°	5161.3	5199.3	5428.8	5534.1	5289.5	4666.2	4113.0	4065.9	4072.9	4252.3	4651.1
50°	5138.2	5189.3	5500.0	5795.6	5678.4	5139.2	4633.1	4600.0	4573.0	4833.5	5069.1
52.5°	4939.8	4995.9	5493.0	5962.0	5996.1	5586.2	5170.3	5151.2	5145.2	5450.9	5536.1
55°	4355.5	4449.7	5251.5	6006.1	6244.6	6007.1	5752.5	5720.5	5751.5	6112.3	6008.1
57.5°	4031.8	4101.9	4778.4	5957.0	6448.1	6408.0	6333.8	6336.8	6371.9	6830.9	6580.4
60°	3847.4	3929.6	4515.8	5822.7	6643.5	6895.0	6942.1	6942.1	7005.3	7605.6	7161.6
62.5°	3602.9	3686.0	4270.3	5564.1	6823.9	7468.3	7706.8	7703.8	7728.9	8436.4	7729.9
65°	3106.8	3183.9	3777.2	5156.2	6912.1	8099.7	8575.7	8566.7	8516.6	9176.0	8105.7
67.5°	2255.9	2329.1	2893.3	4380.6	6594.4	8608.8	9470.7	9474.7	9175.0	9642.0	8125.7
70°	1487.2	1537.4	1860.1	2845.2	5362.7	8389.3	9845.5	9857.5	9276.2	9351.4	7231.8
72.5°	928.0	963.1	1161.5	1696.7	3168.9	6640.5	8883.4	8916.4	8345.2	8217.9	5942.0
75°	616.3	640.4	772.7	989.2	1466.2	3593.8	6752.7	6859.0	6688.6	6442.0	4140.0
77.5°	370.8	390.9	492.1	628.4	649.4	1404.1	3941.6	4216.2	4240.2	3363.3	1733.8
80°	169.4	192.4	271.6	358.8	345.8	489.1	1390.0	1454.2	1715.7	1068.3	547.2
82.5°	100.2	110.2	180.4	178.4	147.3	237.5	500.1	513.1	436.0	390.9	233.5
85°	40.1	47.1	76.2	67.1	54.1	77.2	188.4	197.4	189.4	170.4	86.2
87.5°	0.0	0.0	0.0	0.0	1.0	2.0	17.0	18.0	26.1	47.1	26.1
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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Scaled Data Report

REPORT NUMBER: P635533
CATALOG NUMBER: GWS-SA3D-830-U-T3R-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2294.0	2294.0	2294.0	2294.0	2294.0	2294.0	2294.0	2294.0	2294.0	2294.0	2294.0
2.5°	2311.0	2305.0	2335.1	2358.1	2368.2	2378.2	2369.2	2366.2	2366.2	2346.1	2336.1
5°	2336.1	2339.1	2380.2	2399.2	2399.2	2391.2	2367.2	2350.1	2344.1	2318.1	2311.0
7.5°	2383.2	2396.2	2434.3	2433.3	2405.2	2361.1	2301.0	2254.9	2212.8	2194.8	2183.8
10°	2460.4	2477.4	2503.5	2461.4	2383.2	2266.9	2139.7	2039.4	1979.3	1931.2	1931.2
12.5°	2548.6	2564.6	2559.6	2462.4	2301.0	2083.5	1900.1	1784.9	1700.7	1656.6	1656.6
15°	2636.8	2649.8	2595.7	2416.3	2129.6	1840.0	1639.6	1501.3	1428.1	1387.0	1387.0
17.5°	2725.9	2724.9	2610.7	2310.0	1906.2	1570.4	1374.0	1266.8	1241.7	1234.7	1233.7
20°	2812.1	2789.1	2591.7	2132.7	1646.6	1298.8	1174.6	1181.6	1218.7	1234.7	1236.7
22.5°	2909.3	2852.2	2535.5	1906.2	1351.9	1110.4	1118.4	1176.6	1230.7	1254.7	1257.7
25°	3008.6	2906.3	2441.3	1640.6	1105.4	1041.3	1103.4	1168.5	1229.7	1260.7	1263.8
27.5°	3048.6	2906.3	2281.0	1332.9	974.1	1012.2	1080.4	1143.5	1207.6	1243.7	1250.7
30°	3081.7	2881.3	2056.5	1055.3	920.0	984.1	1043.3	1101.4	1164.5	1208.6	1216.7
32.5°	3127.8	2859.2	1784.9	886.9	895.0	957.1	998.2	1047.3	1104.4	1133.5	1130.5
35°	3181.9	2825.2	1457.2	806.8	873.9	934.0	963.1	992.2	966.1	965.1	968.1
37.5°	3259.1	2795.1	1171.6	770.7	859.9	918.0	942.1	879.9	843.8	828.8	822.8
40°	3370.4	2783.1	924.0	749.6	857.9	917.0	900.0	803.8	754.6	702.5	701.5
42.5°	3510.7	2774.1	763.7	739.6	864.9	940.1	841.8	753.6	652.4	629.4	627.4
45°	3691.1	2760.0	683.5	737.6	881.9	958.1	835.8	684.5	615.3	605.3	605.3
47.5°	3908.5	2738.0	647.4	737.6	901.0	950.1	817.8	669.5	598.3	609.3	616.3
50°	4158.1	2709.9	628.4	735.6	920.0	950.1	779.7	666.5	594.3	651.4	674.5
52.5°	4424.6	2677.8	615.3	727.6	933.0	951.1	781.7	676.5	598.3	661.4	680.5
55°	4719.3	2672.8	597.3	710.5	937.0	925.0	786.7	698.5	604.3	599.3	600.3
57.5°	5091.1	2733.0	584.3	685.5	921.0	871.9	796.7	714.6	597.3	598.3	605.3
60°	5480.0	2846.2	595.3	661.4	887.9	821.8	803.8	706.5	563.2	547.2	549.2
62.5°	5810.7	2932.4	604.3	650.4	839.8	777.7	796.7	688.5	544.2	540.2	549.2
65°	5949.0	2861.2	582.3	627.4	769.7	723.6	781.7	665.5	528.2	513.1	514.1
67.5°	5795.6	2527.5	539.2	576.3	690.5	654.4	757.7	635.4	506.1	488.1	484.1
70°	*4950.8*	*1857.1*	*465.0*	*495.1*	*594.3*	*573.3*	*720.6*	*596.3*	*471.0*	*458.0*	*449.0*
72.5°	3989.7	1314.9	385.8	393.9	466.0	483.1	656.4	547.2	430.9	393.9	380.8
75°	2777.1	825.8	321.7	313.7	336.7	368.8	512.1	454.0	371.8	332.7	320.7
77.5°	1194.6	423.9	251.5	247.5	224.5	255.6	392.9	378.8	311.7	266.6	259.6
80°	399.9	245.5	181.4	174.4	149.3	179.4	276.6	302.7	244.5	197.4	185.4
82.5°	200.4	142.3	115.3	104.2	100.2	113.2	163.4	188.4	169.4	136.3	115.3
85°	98.2	81.2	63.1	62.1	52.1	49.1	68.1	80.2	76.2	56.1	53.1
87.5°	36.1	32.1	20.0	16.0	10.0	7.0	4.0	4.0	3.0	3.0	3.0
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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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.

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

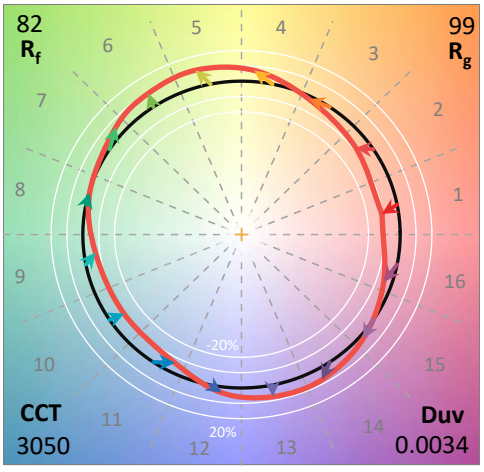
Test Information

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	CRI (Ra):	81.0		
CIE u':	0.2476	R1:	79.6	R9:	7.1
CIE v':	0.5251	R2:	85.6	R10:	67.0
Duv:	0.0034	R3:	92.0	R11:	82.7
CIE x:	0.4383	R4:	82.6	R12:	63.2
CIE y:	0.4131	R5:	78.9	R13:	80.3
CIE z:	0.1487	R6:	81.7	R14:	95.0
Peak Wavelength (nm):	603	R7:	85.2	R15:	71.7
Dominant Wavelength (nm):	581	R8:	62.0		
Purity:	55.55201				

Rf:	81.5
Rg:	99.2



Test Conditions

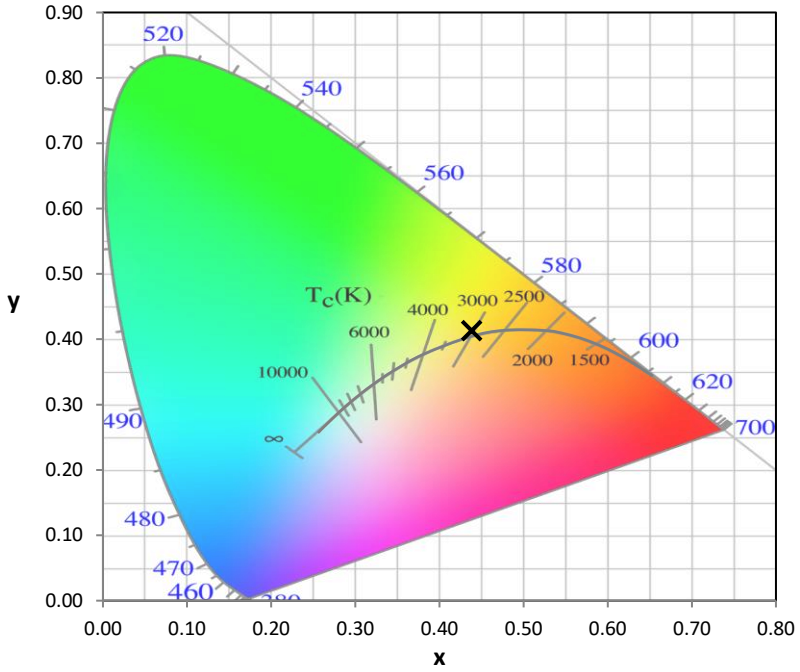
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

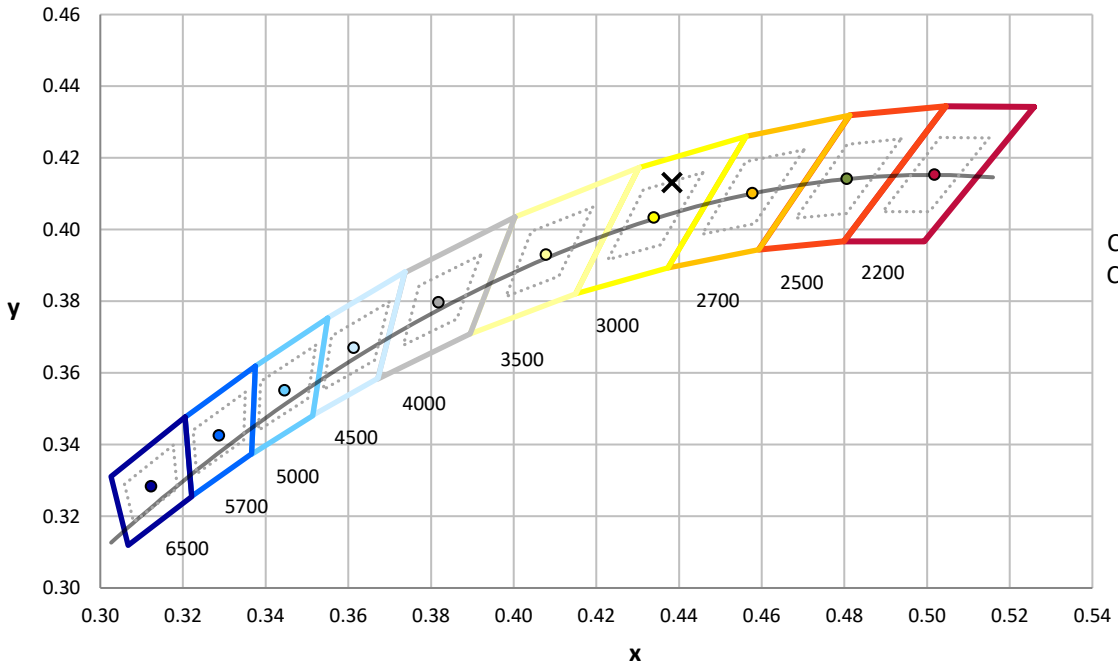
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

REPORT NUMBER: SP1-2408-195-9

CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles

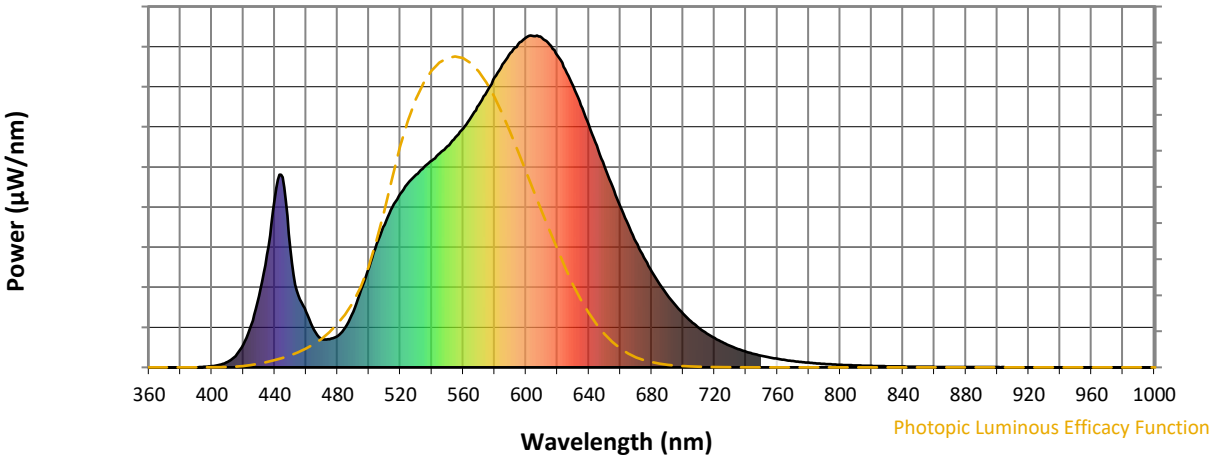


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

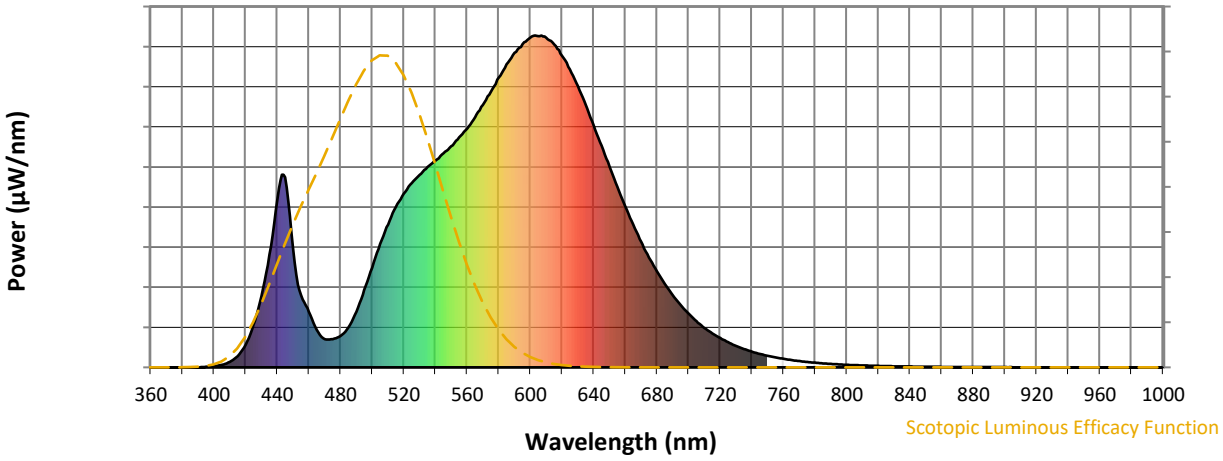


Photopic Lumens: NR

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

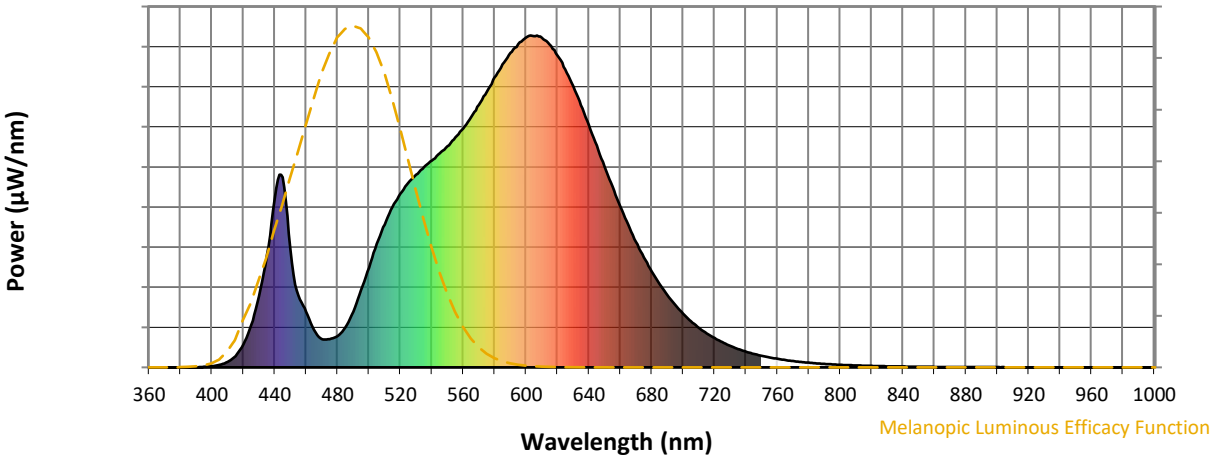


Scotopic Lumens: NR **S/P: 1.27**

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			

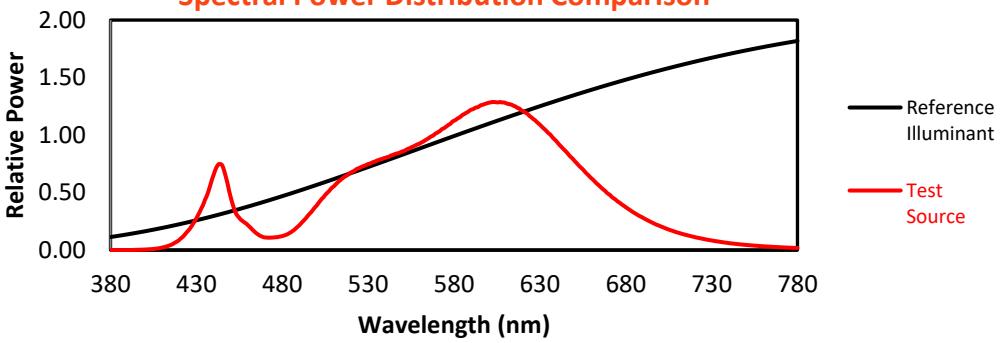
REPORT NUMBER: SP1-2408-195-9

TM-30-18

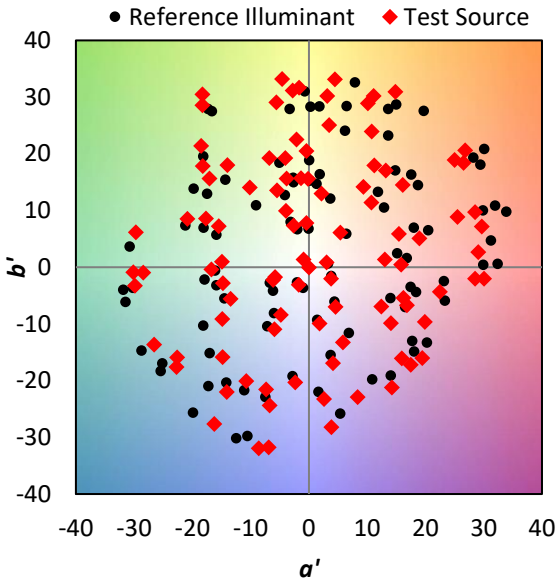
Summary

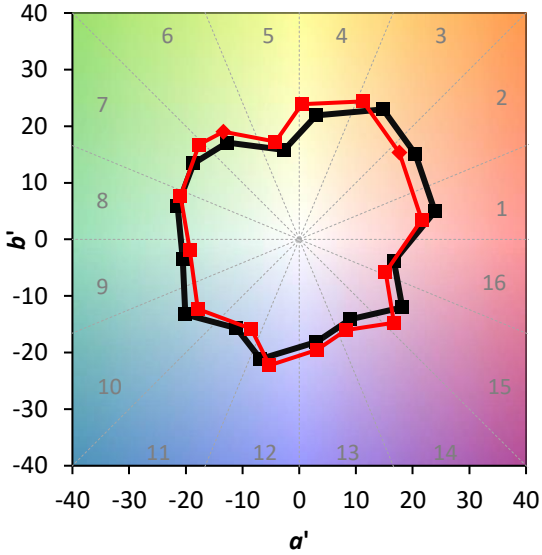
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

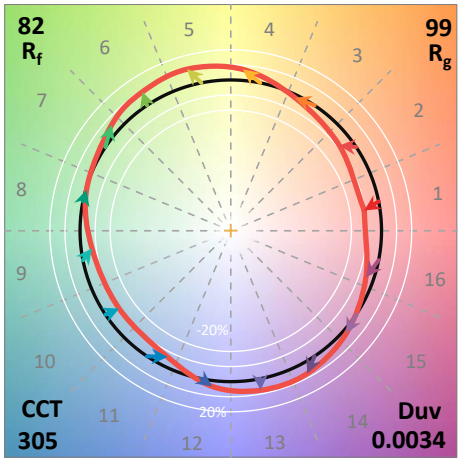
Spectral Power Distribution Comparison

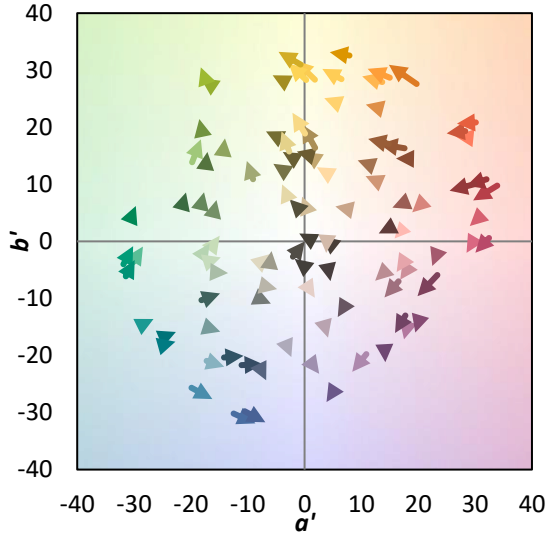


Color Vector Graphics







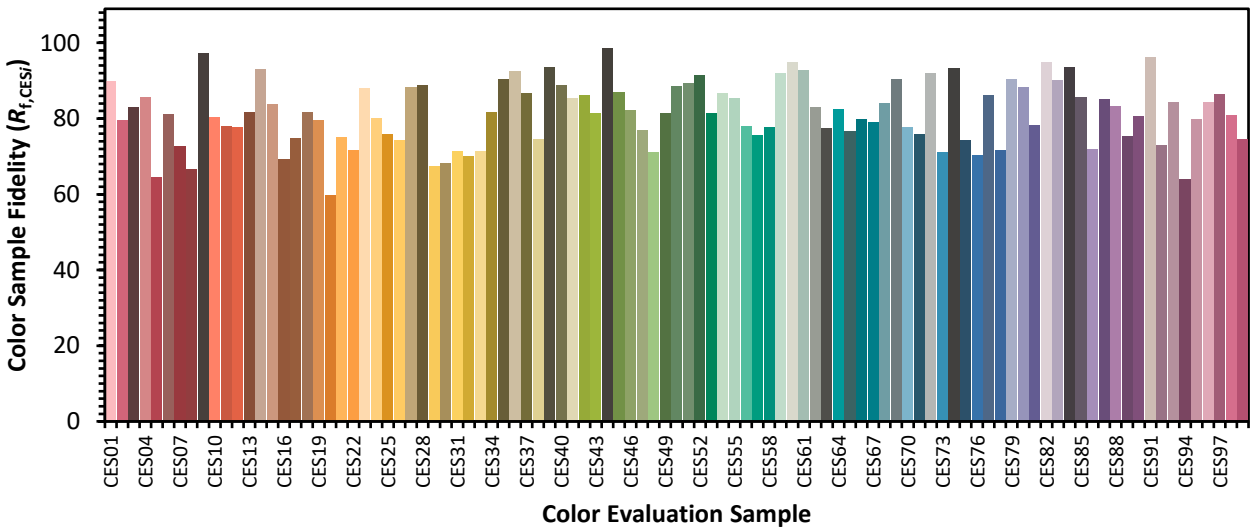


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

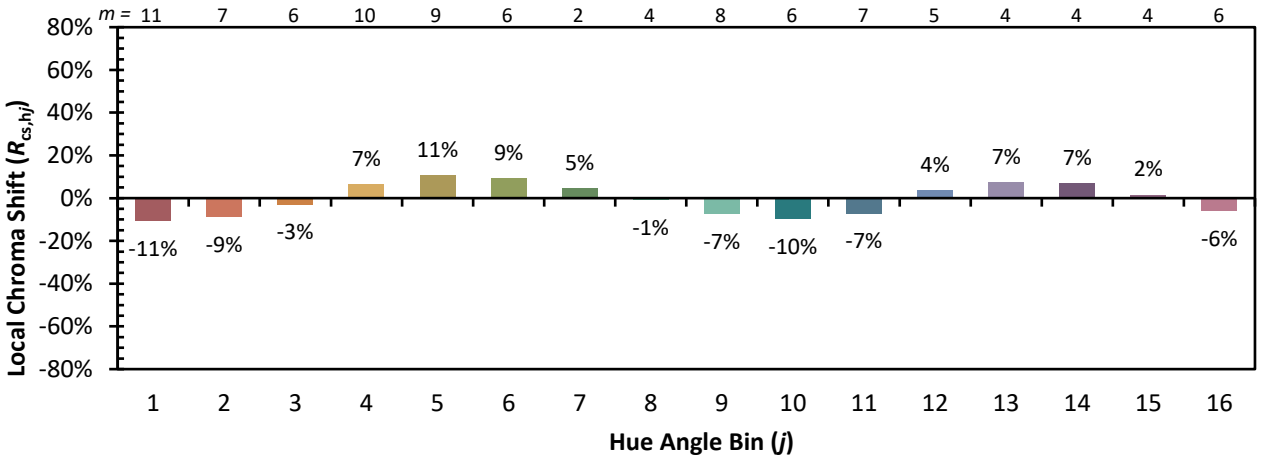
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 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	

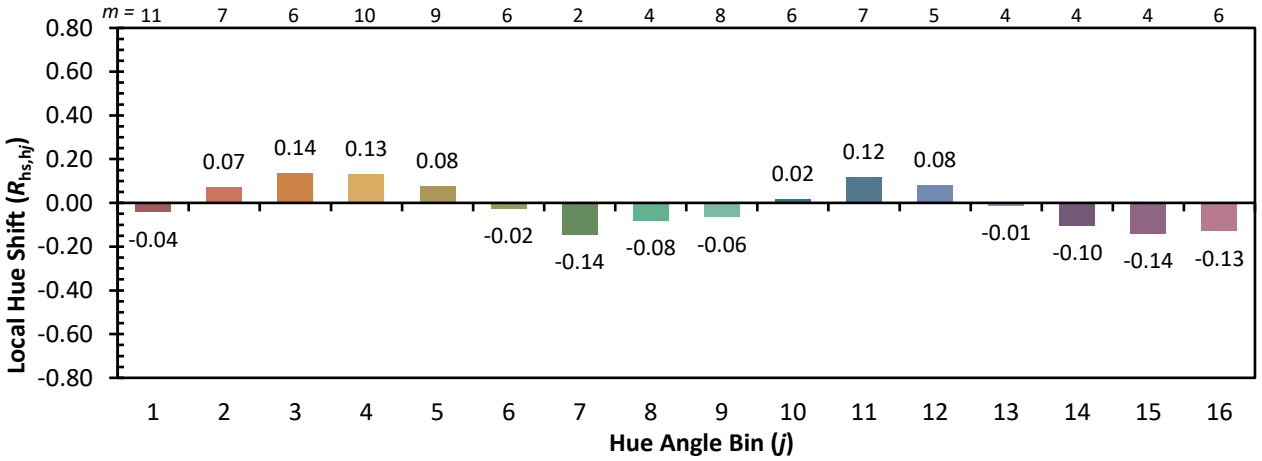


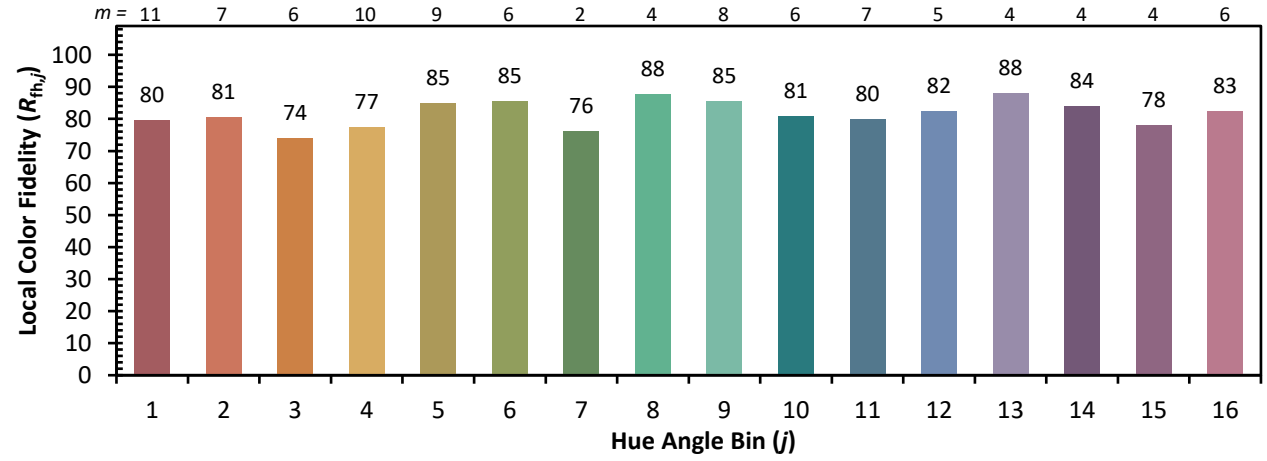
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



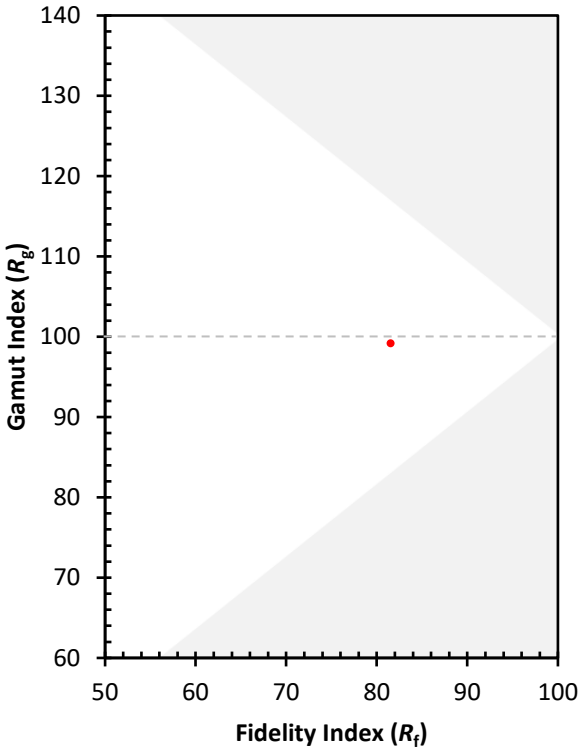


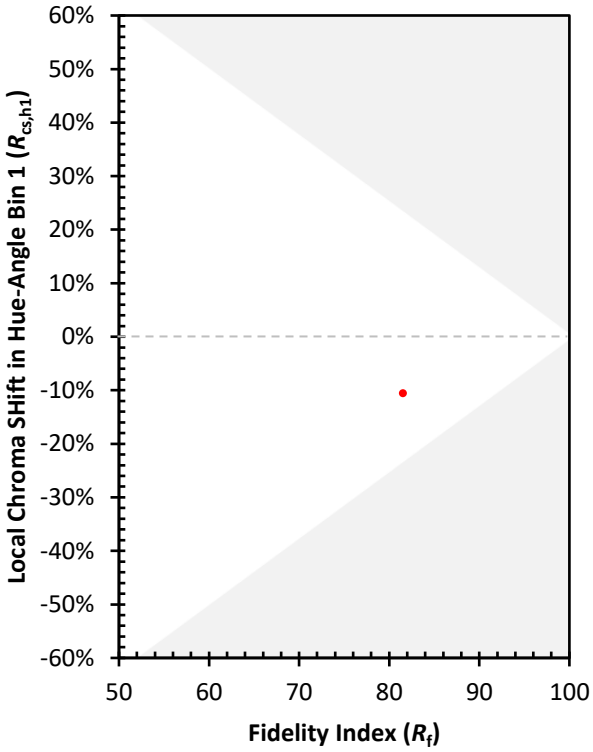


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





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