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: P633047

Luminaire Tested: GWS-SA2D-830-U-T2R-W-GRSBK

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:	P633047
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA2D-830-U-T2R-W-GRSBK
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6217.7 lumens
Efficiency:	N/A
Efficacy:	75.7 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G0

Input Watts (W):	82.1
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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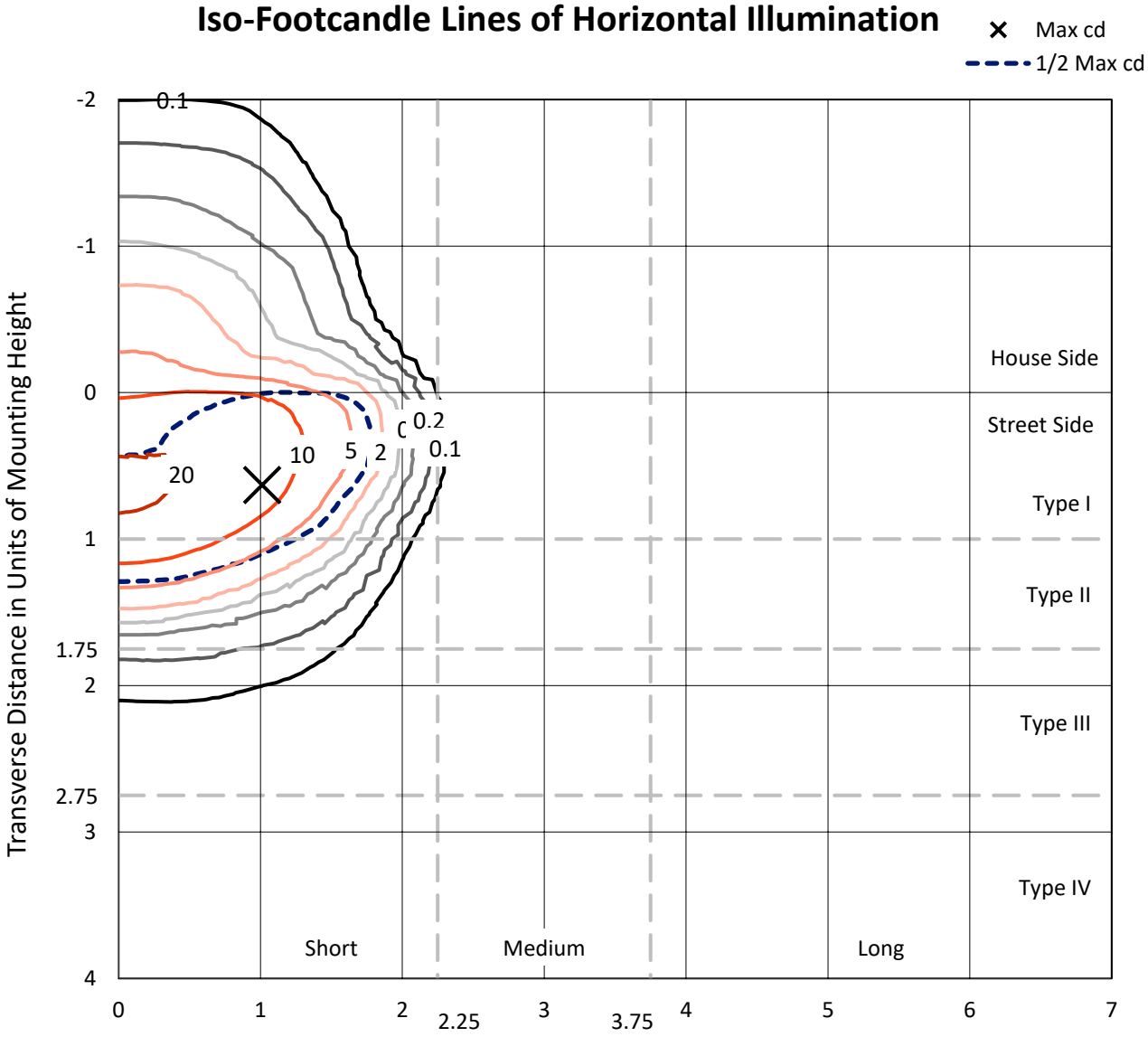
REPORT NUMBER: P633047
CATALOG NUMBER: GWS-SA2D-830-U-T2R-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 22.8 fc
Type II - Short - N/A

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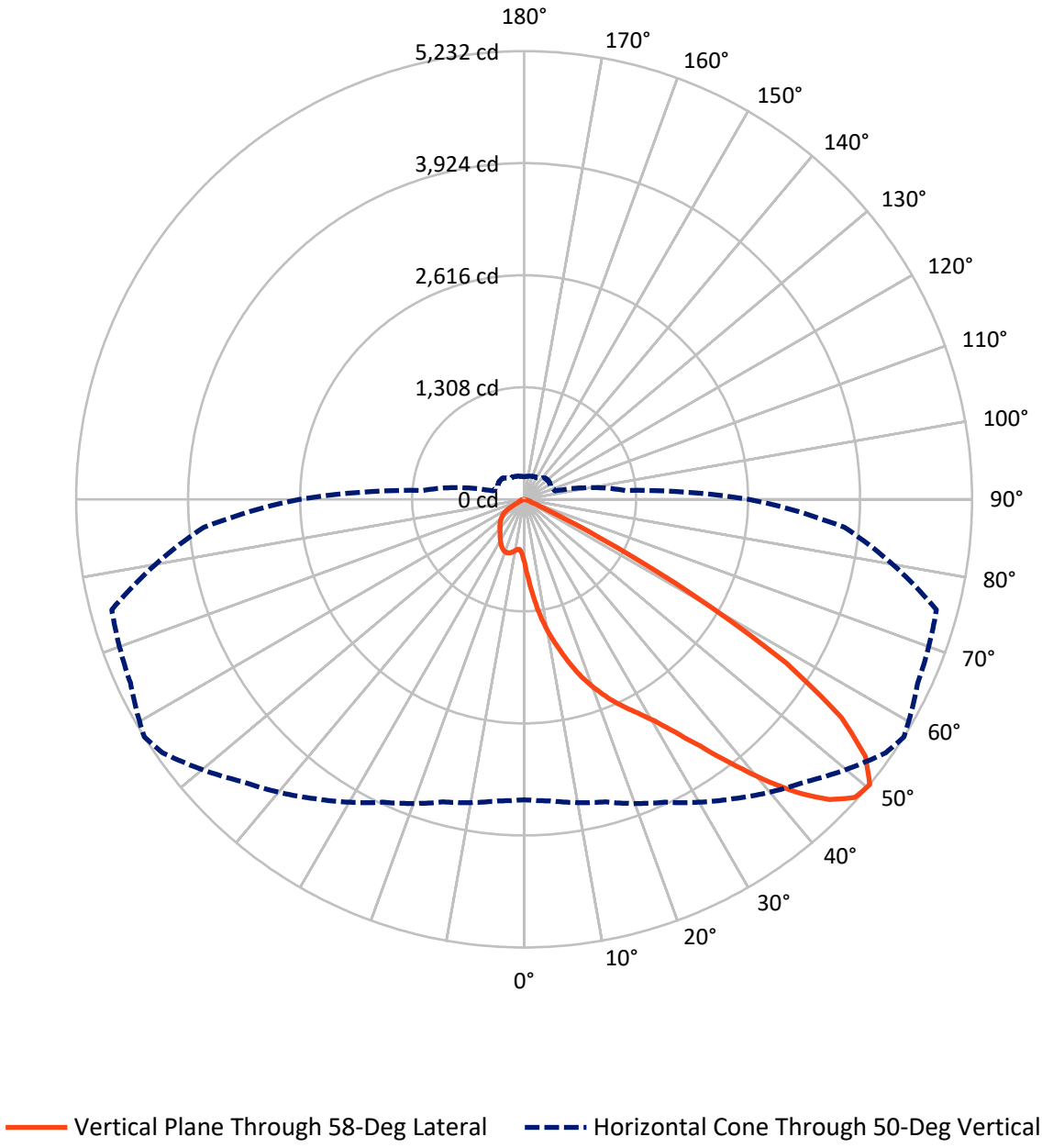
Luminous Intensity Polar Plot



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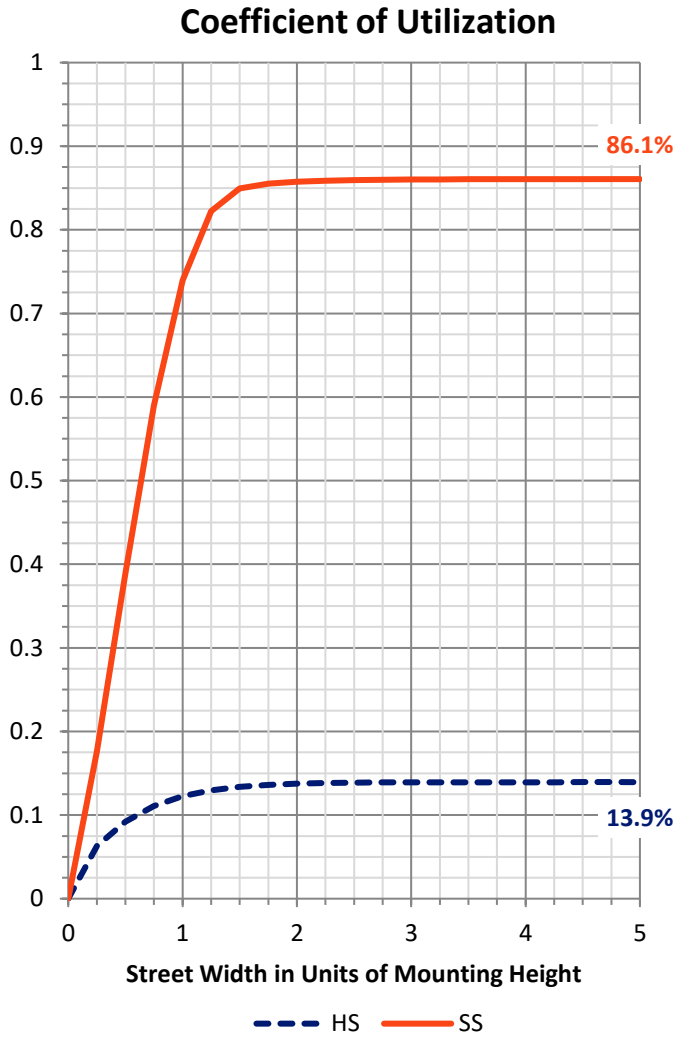
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	870.9	0.0	870.9
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	5346.8	0.0	5346.8
	% Fixture	86.0	0.0	86.0
Total	Lumens	6217.7	0.0	6217.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.0	1.5
10°-20°	364.2	5.9
20°-30°	737.0	11.9
30°-40°	1303.9	21.0
40°-50°	1900.8	30.6
50°-60°	1523.6	24.5
60°-70°	274.5	4.4
70°-80°	21.6	0.3
80°-90°	0.0	0.0
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°	6217.7	100.0
0°-180°	6217.7	100.0



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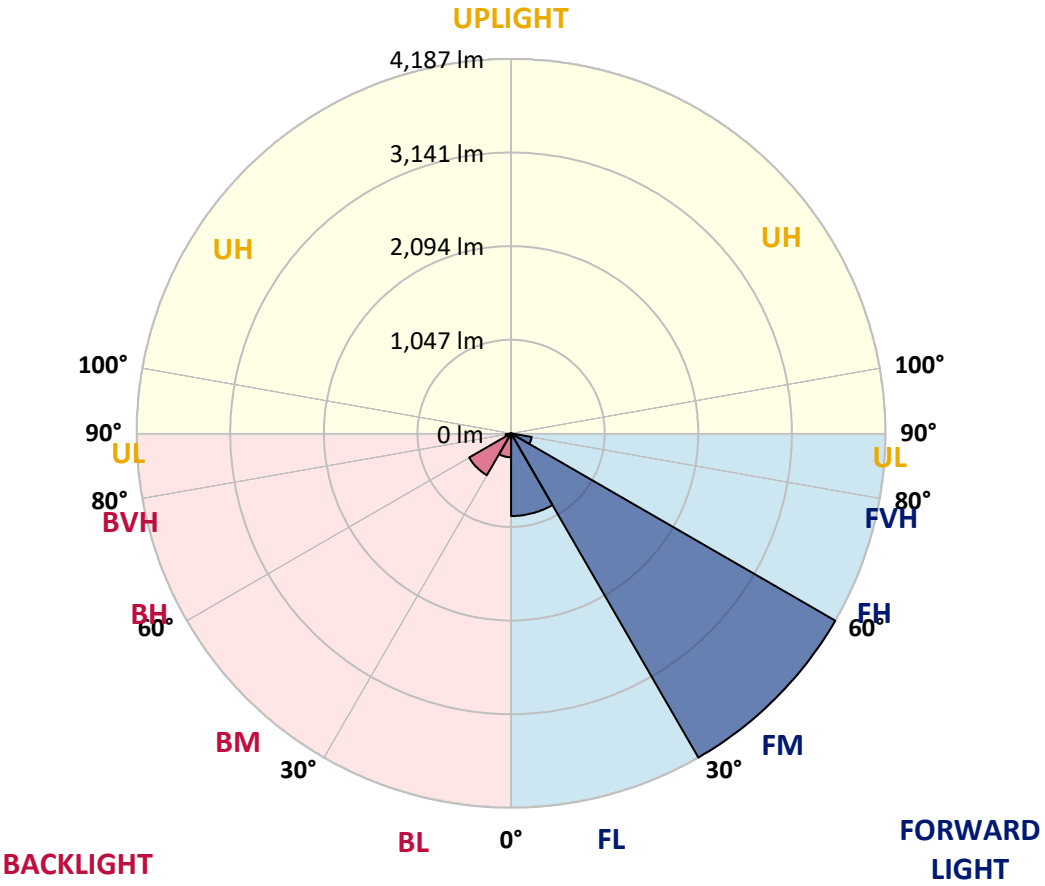
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	925.2	14.9			
FM	(30°-60°)	4187.4	67.3			
FH	(60°-80°)	234.2	3.8			G0/660
FVH	(80°-90°)	0.0	0.0			G0/10
BL	(0°-30°)	268.1	4.3	B1/500		
BM	(30°-60°)	540.9	8.7	B1/1000		
BH	(60°-80°)	61.9	1.0	B0/110		G0/110
BVH	(80°-90°)	0.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
Type II Short



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Scaled Data Report

REPORT NUMBER: P633047
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	742.7	742.7	742.7	742.7	742.7	742.7	742.7	*742.7*	742.7	742.7	742.7
2.5°	1099.1	1081.8	1071.8	1063.8	1028.6	972.7	936.2	*916.9*	885.0	831.1	784.6
5°	1434.2	1421.6	1398.3	1382.3	1337.1	1258.0	1176.2	*1143.6*	1071.2	949.5	840.4
7.5°	1656.3	1647.0	1638.3	1617.0	1574.5	1502.7	1412.2	*1378.3*	1266.6	1093.8	914.9
10°	1827.1	1819.8	1809.9	1809.2	1775.9	1711.5	1623.0	*1587.8*	1466.8	1250.7	1002.7
12.5°	1977.4	1971.4	1969.4	1988.1	1966.8	1918.9	1823.2	*1779.3*	1650.9	1410.9	1099.7
15°	2080.5	2079.1	2087.8	2124.4	2136.3	2114.4	2033.9	*1986.7*	1839.1	1571.8	1206.8
17.5°	2127.7	2131.7	2148.3	2211.5	2264.7	2283.3	2221.4	*2181.5*	2026.0	1734.7	1321.2
20°	2208.1	2206.8	2216.8	2276.6	2341.8	2408.3	2389.7	*2355.7*	2214.8	1906.9	1448.2
22.5°	2434.9	2415.6	2394.3	2403.6	2426.9	2504.7	2539.3	*2522.0*	2409.6	2083.8	1579.1
25°	2783.3	2763.3	2694.8	2628.4	2584.5	2619.7	2666.9	*2675.6*	2603.1	2265.3	1716.1
27.5°	3153.0	3135.0	3057.9	2958.1	2832.5	2771.3	2806.5	*2823.8*	2793.2	2481.4	1861.7
30°	3499.4	3475.4	3391.0	3267.3	3121.7	3028.0	2988.1	*3000.0*	3018.0	2737.4	2032.6
32.5°	3799.9	3782.0	3680.9	3550.6	3410.3	3312.5	3219.4	*3239.4*	3283.3	3050.6	2251.4
35°	4054.6	4045.3	3938.2	3808.5	3660.3	3610.4	3530.6	*3534.6*	3578.5	3428.9	2518.0
37.5°	4276.0	4260.0	4162.9	4042.6	3924.9	3916.9	3895.0	*3897.0*	3919.6	3869.7	2824.5
40°	4415.6	4401.0	4331.8	4257.4	4173.6	4174.9	4288.6	*4297.3*	4271.3	4302.6	3148.3
42.5°	4468.1	4457.5	4420.3	4420.9	4412.3	4451.5	4664.9	*4680.9*	4587.8	4642.3	3424.9
45°	4377.0	4372.4	4375.0	4470.8	4574.5	4695.5	4972.8	*5000.7*	4869.1	4867.7	3641.0
47.5°	4083.2	4073.8	4151.6	4314.5	4554.6	4789.9	5159.0	*5202.2*	5065.9	4996.7	3776.6
50°	*3507.3*	*3533.9*	*3657.0*	*3901.6*	*4266.7*	*4660.3*	*5157.0*	*5232.1*	*5073.2*	*4985.4*	*3754.0*
52.5°	2540.6	2535.3	2804.5	3141.0	3585.1	4245.4	4883.0	*4992.7*	4895.7	4874.4	3703.5
55°	1382.3	1430.9	1612.4	2057.9	2612.4	3460.1	4257.4	*4496.7*	4609.1	4833.8	3794.6
57.5°	508.0	529.3	643.0	958.1	1383.0	2151.6	3252.0	*3613.1*	3960.1	4720.8	3779.3
60°	204.8	208.8	254.0	352.4	581.1	1095.1	1950.8	*2271.3*	2598.4	3613.7	2900.3
62.5°	148.9	154.3	172.2	206.1	293.9	478.7	841.1	*978.1*	1069.2	1789.9	1428.9
65°	120.3	124.3	139.0	154.3	194.2	257.3	271.3	*261.3*	260.0	462.8	327.8
67.5°	99.7	103.7	114.4	125.0	139.6	128.3	93.1	*97.7*	79.8	79.1	64.5
70°	73.1	77.8	88.4	99.7	83.8	34.6	53.9	*79.8*	60.5	50.5	49.2
72.5°	55.2	58.5	68.5	65.2	24.6	13.3	35.9	*57.8*	46.5	37.2	36.6
75°	41.2	43.2	34.6	10.6	2.7	3.3	13.3	*23.9*	25.9	21.3	21.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	*2.0*	2.7	3.3	4.0
80°	0.0	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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REPORT NUMBER: P633047
CATALOG NUMBER: GWS-SA2D-830-U-T2R-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	742.7	742.7	742.7	742.7	742.7	742.7	742.7	742.7	742.7	742.7	742.7
2.5°	758.0	730.1	690.2	656.9	631.7	607.1	588.4	569.8	569.2	559.8	557.9
5°	789.9	739.4	666.2	613.7	581.8	562.5	549.2	542.6	539.2	535.9	534.6
7.5°	835.8	763.3	662.2	606.4	579.8	567.2	557.9	553.9	551.9	549.2	548.5
10°	892.3	797.9	676.9	620.4	597.1	585.1	575.1	569.2	565.8	561.2	559.8
12.5°	960.1	840.4	700.1	643.6	619.0	603.1	589.8	581.1	576.5	570.5	569.2
15°	1033.3	886.3	726.1	664.9	635.6	615.0	598.4	585.1	576.5	569.2	567.2
17.5°	1109.1	932.9	749.3	679.5	643.6	619.0	595.1	577.1	566.5	557.2	554.5
20°	1194.2	980.7	764.6	682.2	641.0	608.4	580.5	557.9	547.2	534.6	531.9
22.5°	1283.3	1025.3	771.3	676.2	626.3	588.4	558.5	535.2	520.0	506.7	502.7
25°	1369.7	1065.2	768.0	659.6	604.4	560.5	529.9	506.0	489.4	476.1	472.7
27.5°	1461.5	1098.4	756.0	635.0	574.5	529.9	500.7	480.1	464.8	450.1	446.8
30°	1564.5	1129.0	736.7	605.1	539.2	498.7	476.1	462.1	445.5	430.2	425.5
32.5°	1688.8	1156.3	708.8	569.2	508.0	471.4	458.8	448.1	428.9	412.9	409.6
35°	1831.1	1178.9	673.5	531.9	477.4	454.1	451.5	437.5	412.2	393.6	389.6
37.5°	1996.0	1200.8	631.7	495.4	454.8	446.1	446.8	422.9	392.3	369.7	367.0
40°	2173.6	1222.8	585.1	463.4	434.2	441.5	435.5	401.6	351.7	329.8	327.1
42.5°	2358.4	1246.7	537.9	433.5	416.9	423.5	414.9	359.0	323.1	311.8	310.5
45°	2525.3	1275.3	486.7	403.6	399.6	397.6	383.0	325.1	309.8	301.9	301.2
47.5°	2645.6	1270.6	432.2	375.0	381.0	374.3	329.8	309.2	296.5	285.9	283.2
50°	*2623.7*	*1189.5*	*375.7*	*343.1*	*357.1*	*351.1*	*296.5*	*290.6*	*279.3*	*268.0*	*264.0*
52.5°	2567.8	1079.1	326.5	309.2	331.1	317.2	273.9	268.0	258.0	243.4	238.7
55°	2597.8	975.4	287.9	281.9	304.5	262.6	248.7	239.4	228.7	212.8	210.8
57.5°	2501.4	795.9	231.4	235.4	269.3	224.1	218.1	203.5	185.5	174.9	173.5
60°	1731.4	427.5	144.9	149.6	194.8	188.2	195.5	182.2	160.2	150.3	148.3
62.5°	795.2	171.5	79.1	75.8	102.4	127.7	167.6	166.2	139.0	123.0	121.7
65°	192.8	78.5	56.5	53.2	57.8	76.5	109.0	131.0	112.4	93.8	91.8
67.5°	62.5	63.8	51.9	48.5	51.2	57.2	65.2	72.5	71.8	65.8	64.5
70°	49.9	57.8	47.9	43.9	43.9	45.9	43.9	35.2	30.6	33.2	34.6
72.5°	37.2	43.9	37.9	33.9	32.6	31.9	27.3	19.9	14.0	12.6	12.0
75°	21.9	24.6	23.3	19.9	18.6	16.6	13.3	8.6	4.7	3.3	2.0
77.5°	4.0	4.7	5.3	4.0	3.3	2.7	2.0	0.7	0.0	0.0	0.0
80°	0.0	0.7	0.7	0.7	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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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

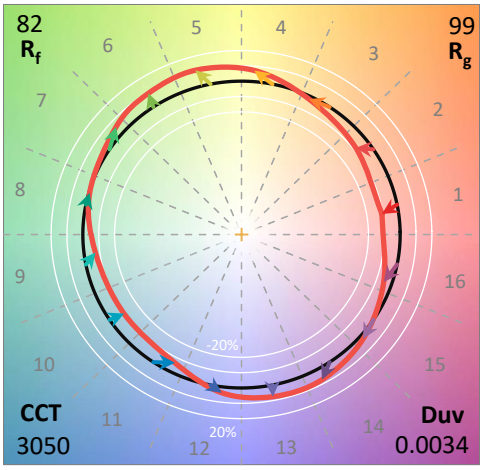
Test Information

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

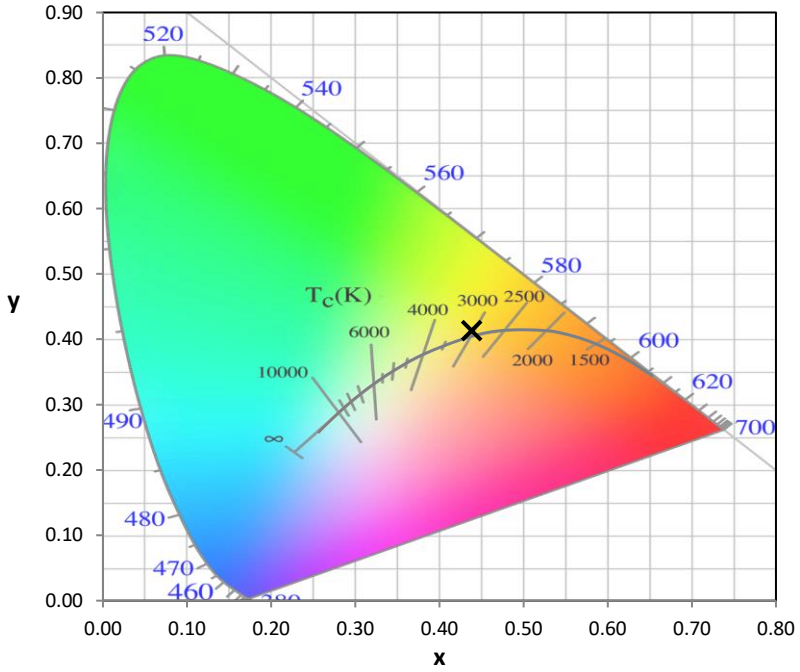
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

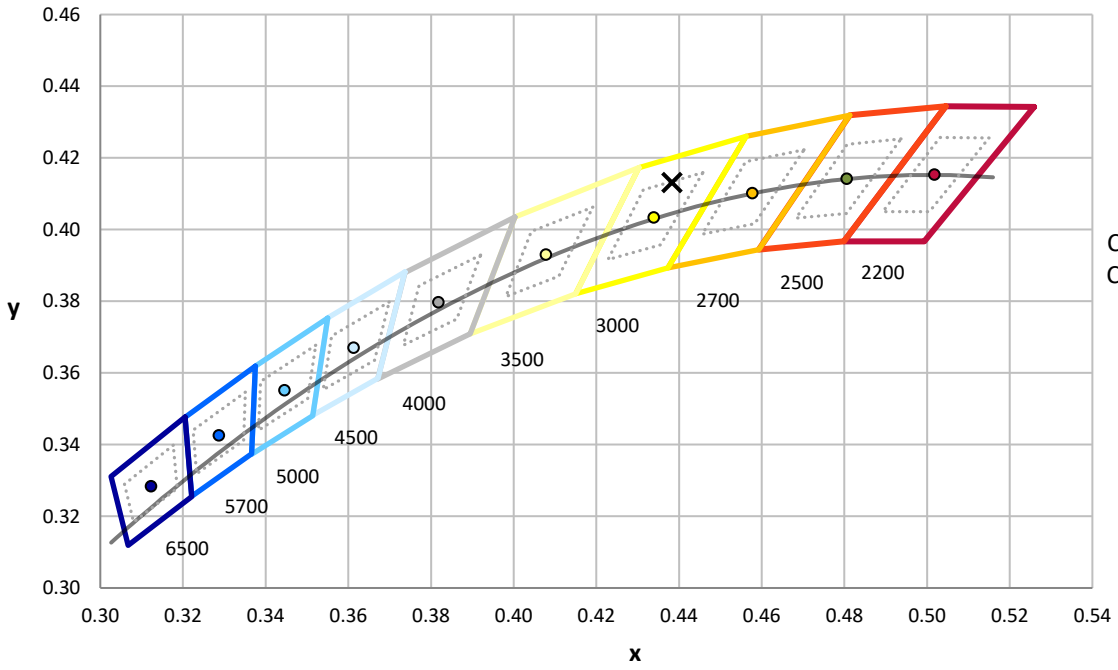
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

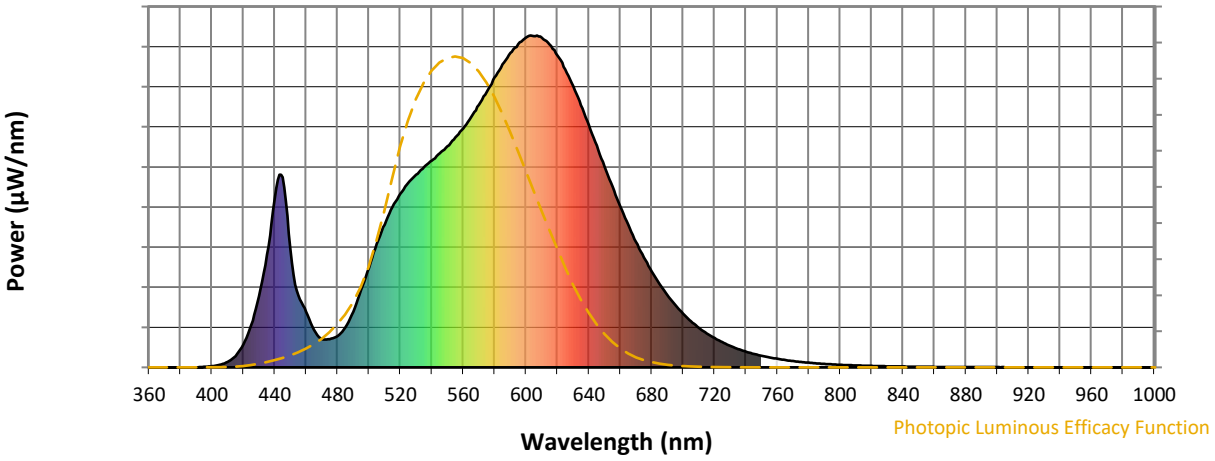


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

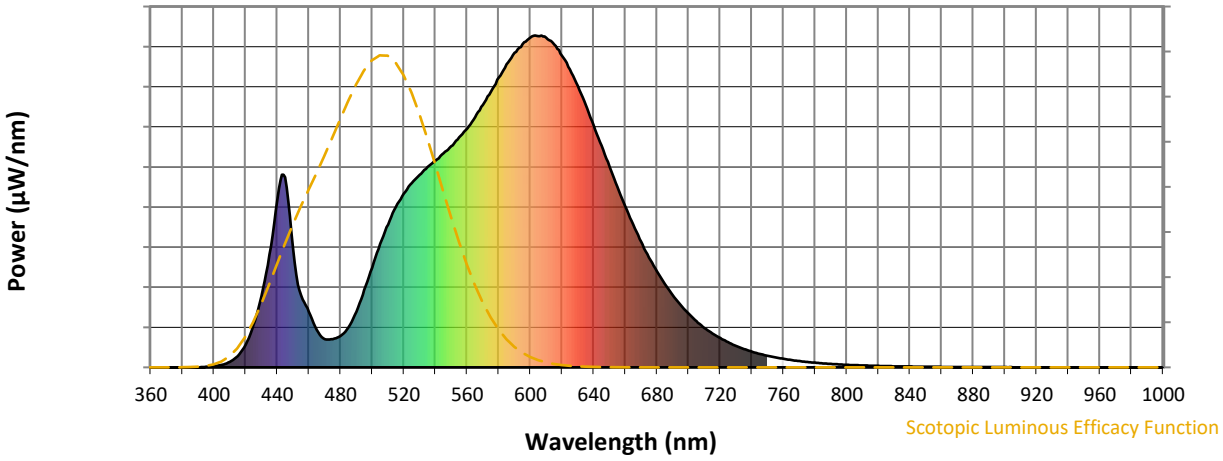


Photopic Lumens: NR

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

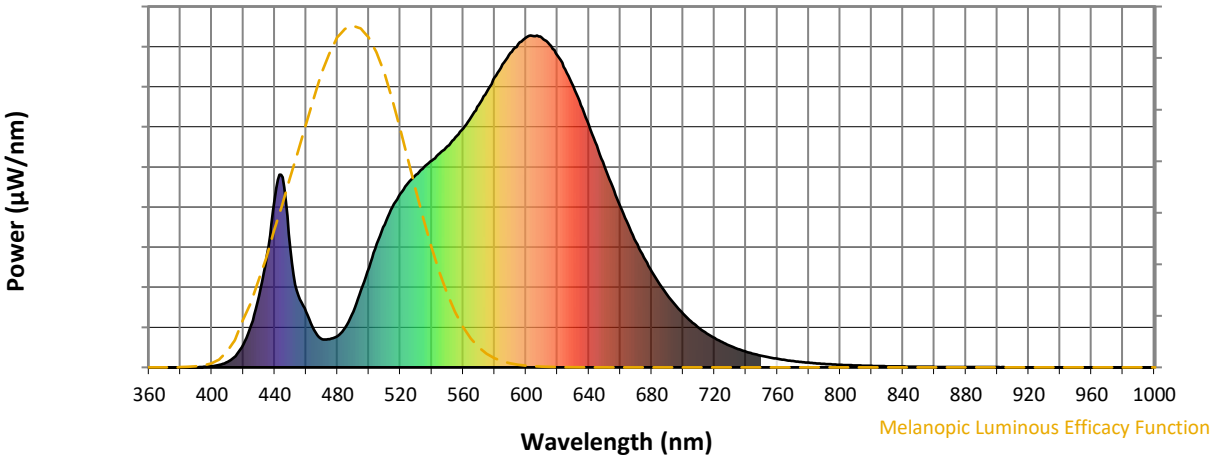


Scotopic Lumens: NR **S/P: 1.27**

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			

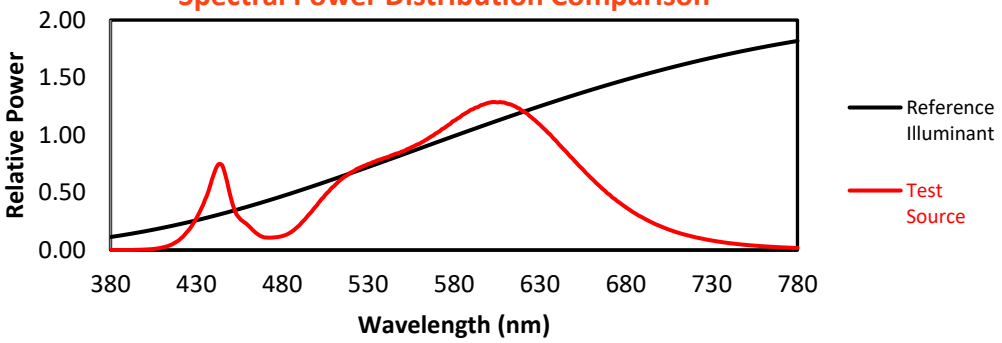
REPORT NUMBER: SP1-2408-195-9

TM-30-18

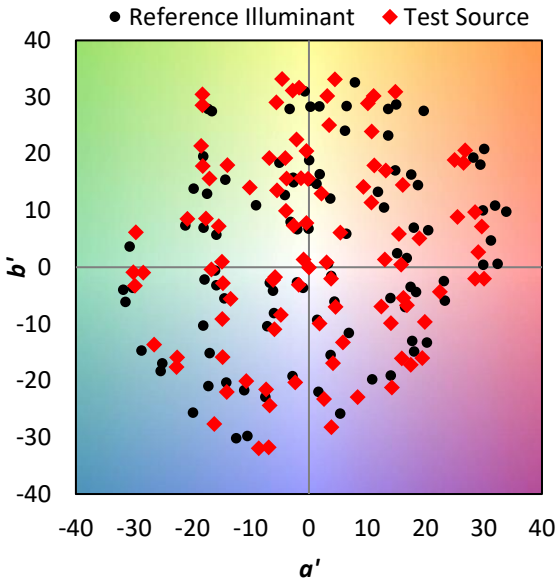
Summary

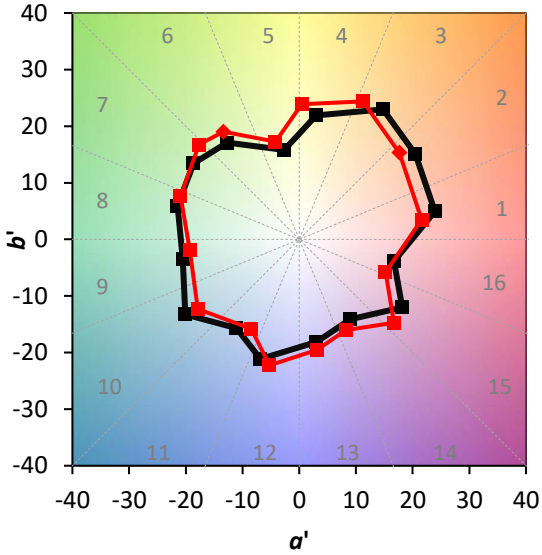
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

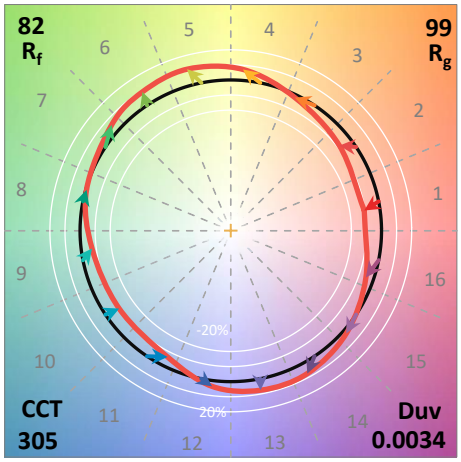
Spectral Power Distribution Comparison

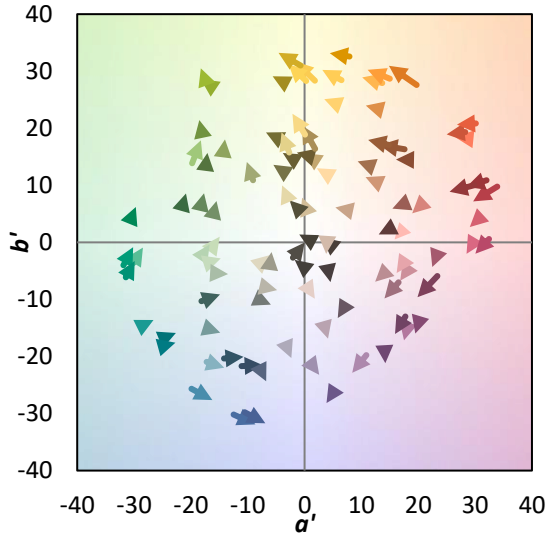


Color Vector Graphics







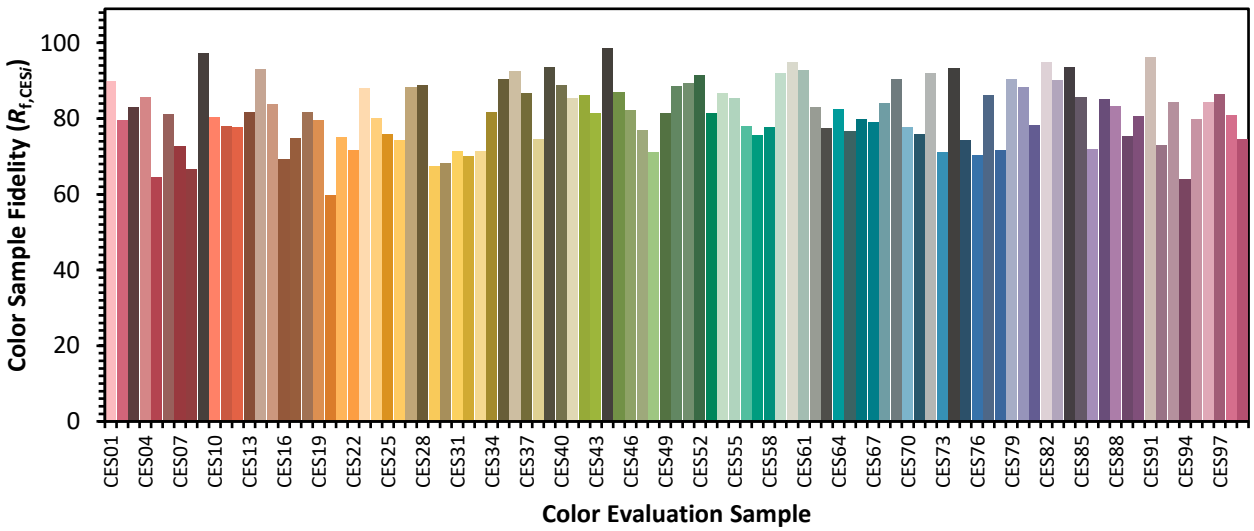


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

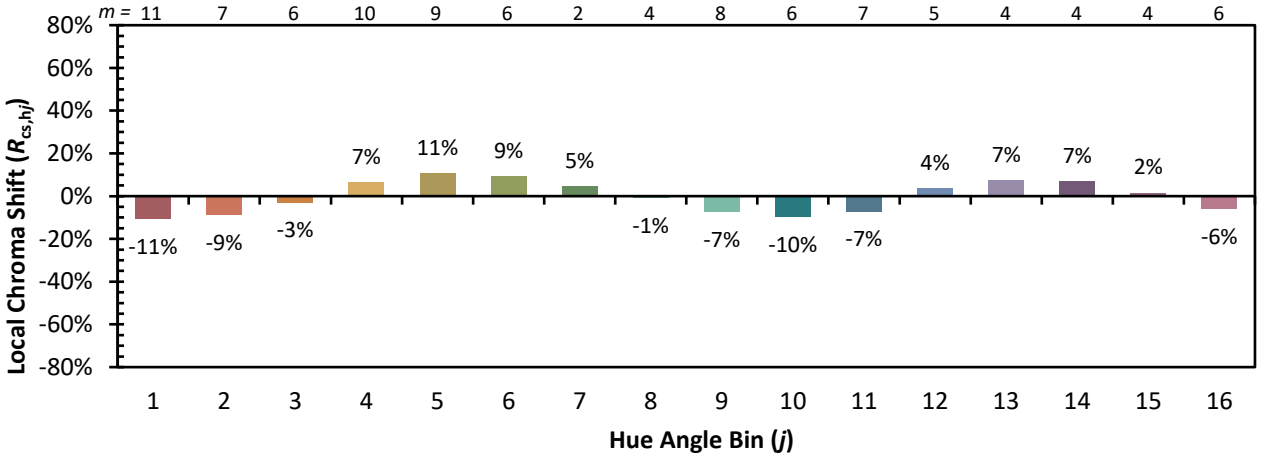
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

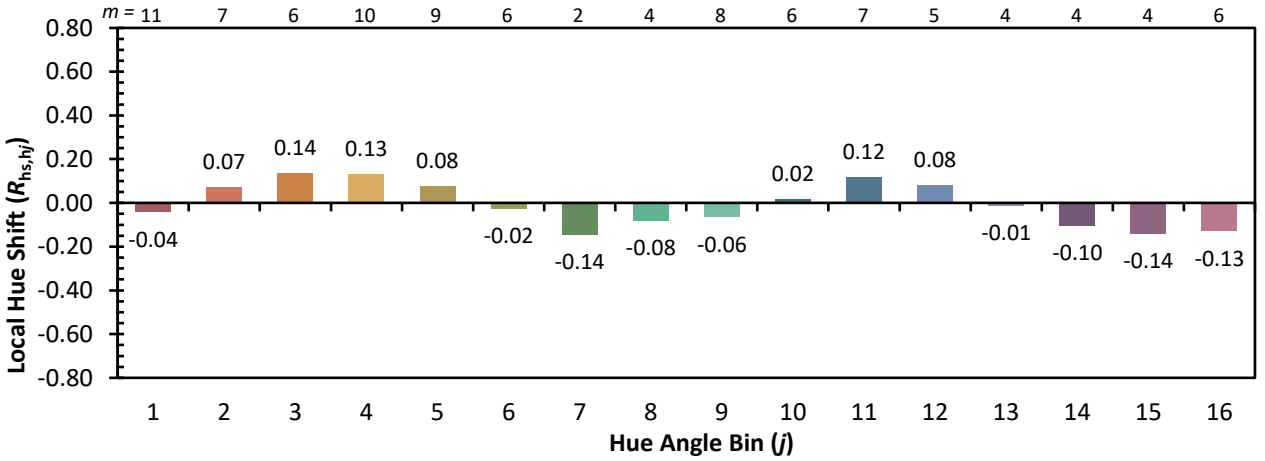


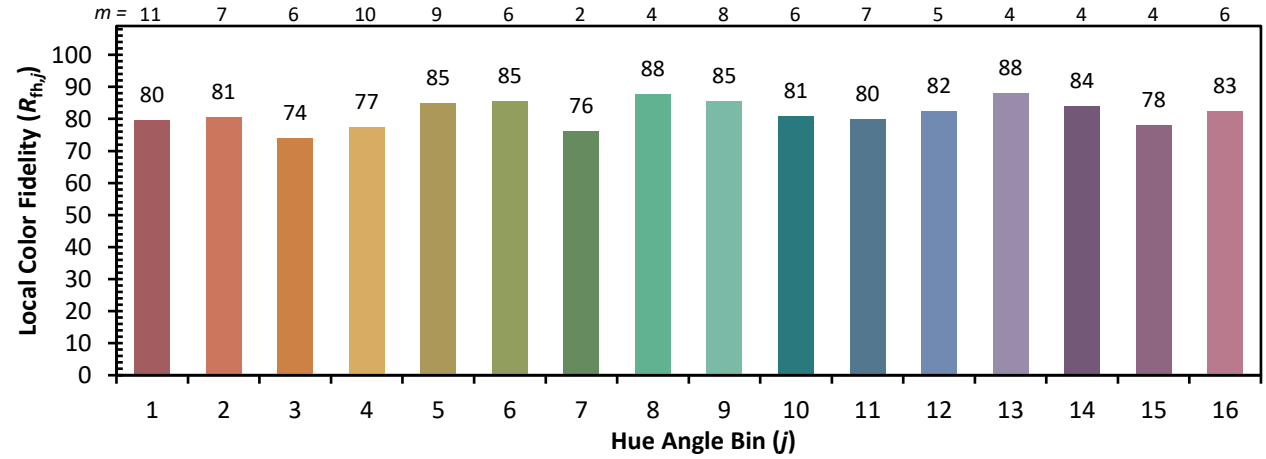
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



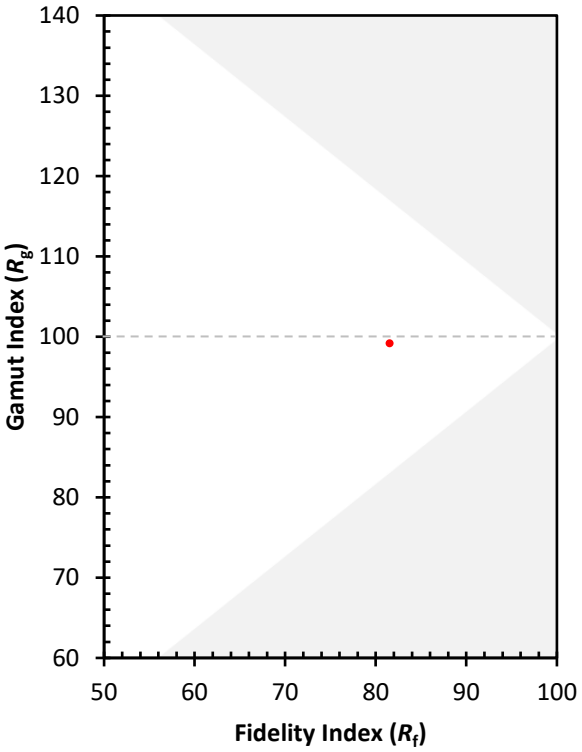


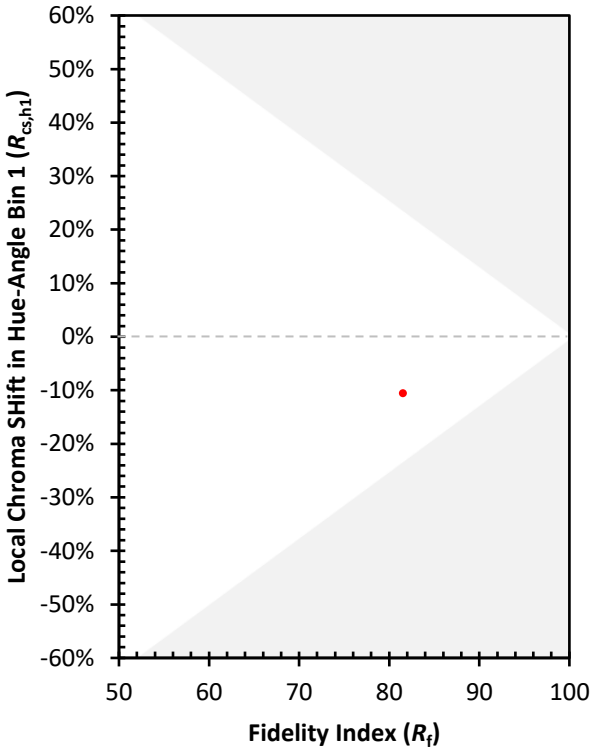


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)