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: P633545

Luminaire Tested: GWS-SA2E-830-U-T2R-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:	P633545
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA2E-830-U-T2R-W
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	11819 lumens
Efficiency:	N/A
Efficacy:	109.2 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

Input Watts (W):	108.2
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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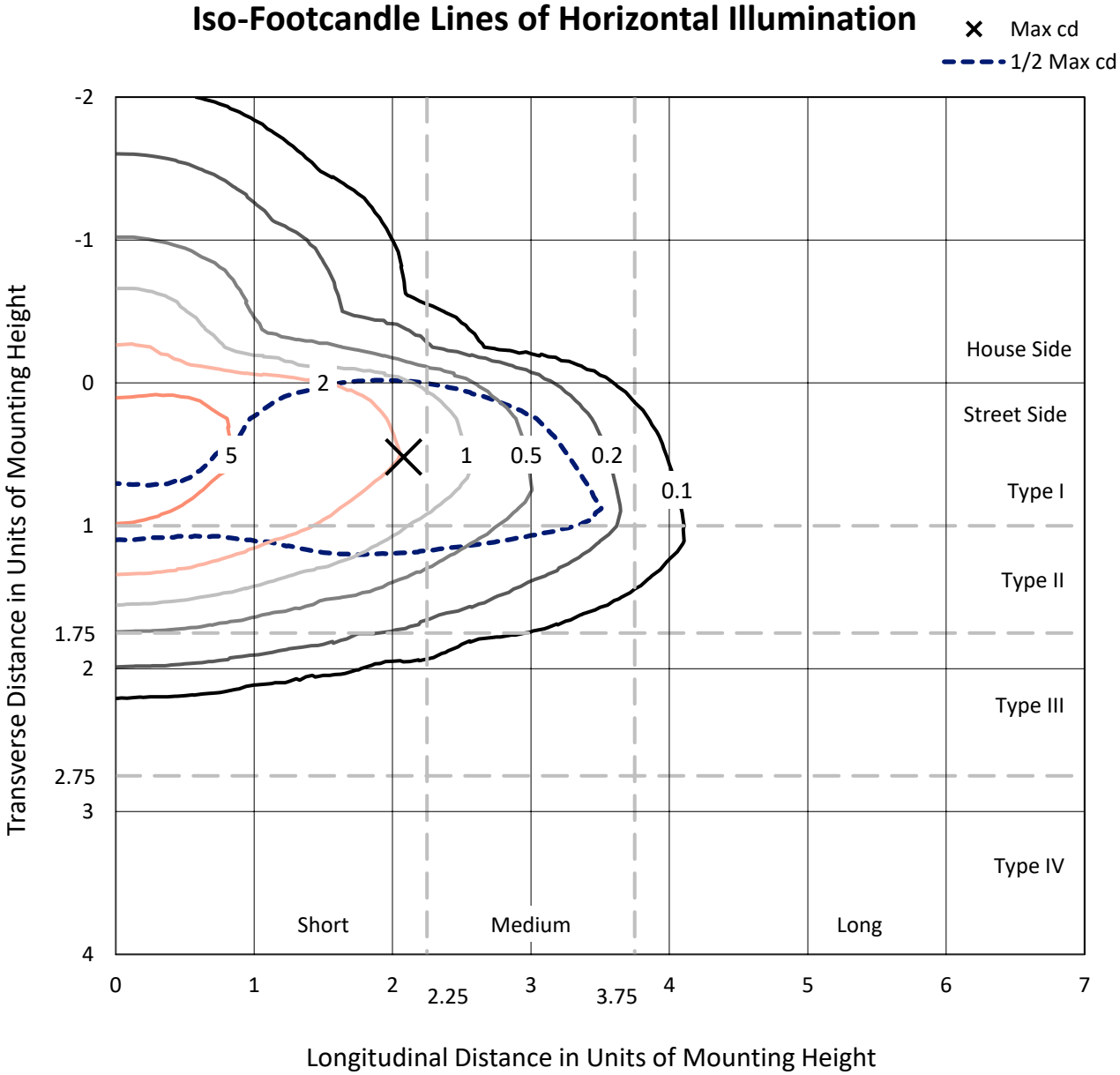
Scaled Data Report

REPORT NUMBER: P633545
CATALOG NUMBER: GWS-SA2E-830-U-T2R-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 7.3 fc
Type II - Short - N/A

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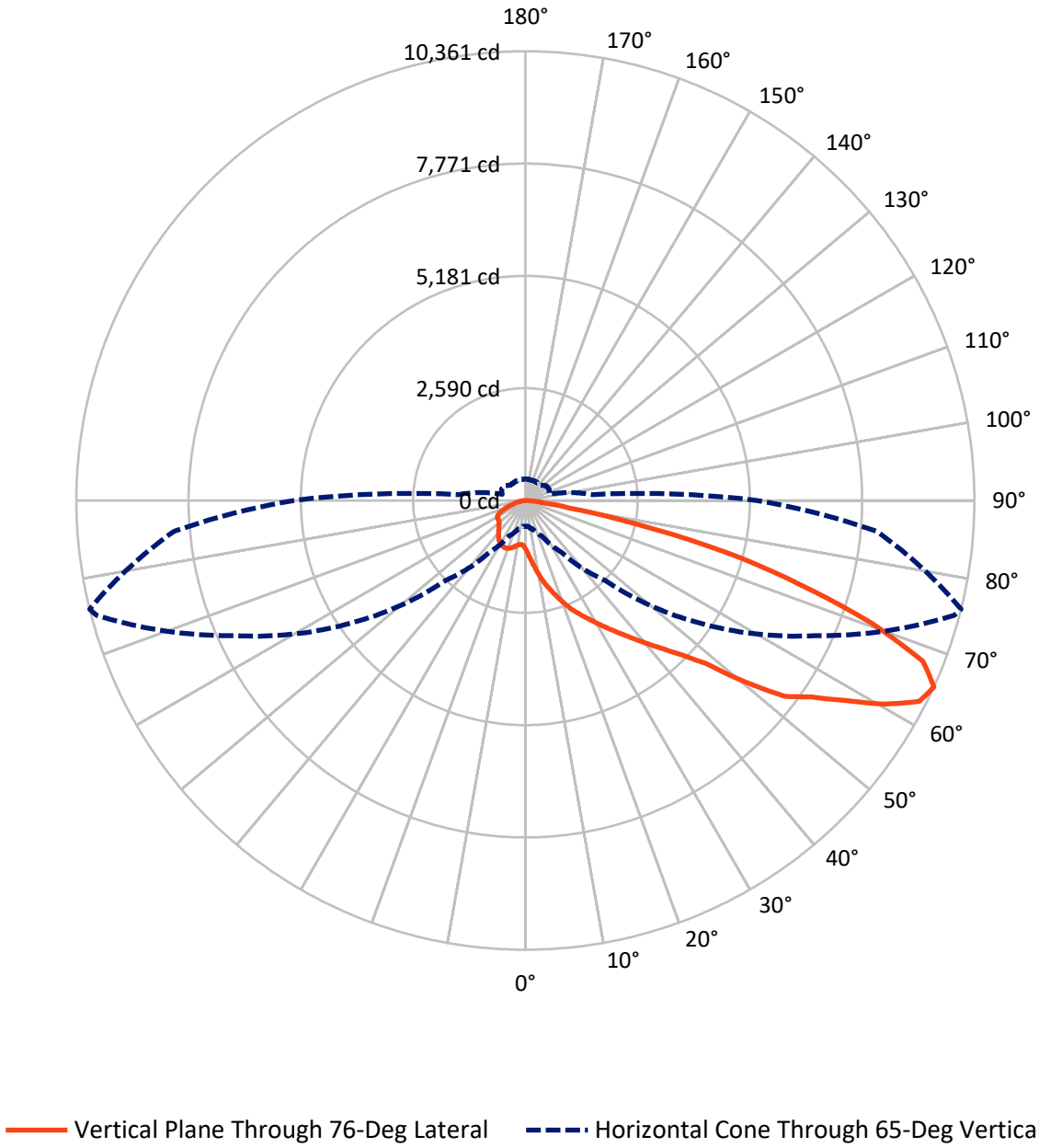
Luminous Intensity Polar Plot



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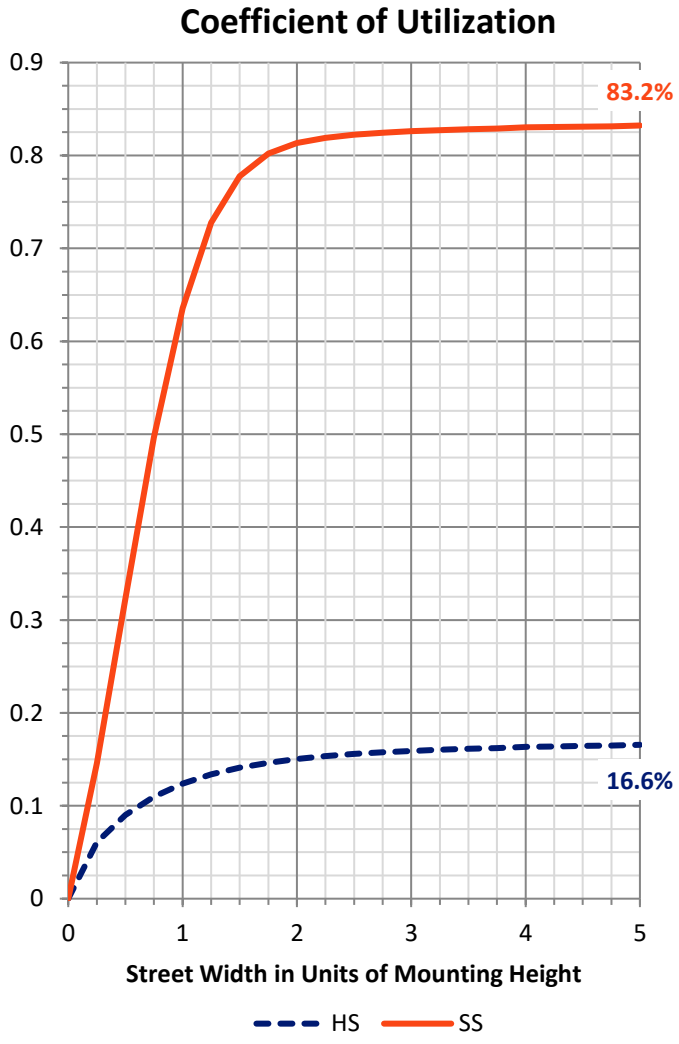
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1975.6	0.0	1975.6
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	9843.4	0.0	9843.4
	% Fixture	83.3	0.0	83.3
Total	Lumens	11819.0	0.0	11819.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.0	1.1
10°-20°	506.5	4.3
20°-30°	987.0	8.4
30°-40°	1650.7	14.0
40°-50°	2363.5	20.0
50°-60°	2798.1	23.7
60°-70°	2326.7	19.7
70°-80°	952.1	8.1
80°-90°	101.4	0.9
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°	11819.0	100.0
0°-180°	11819.0	100.0



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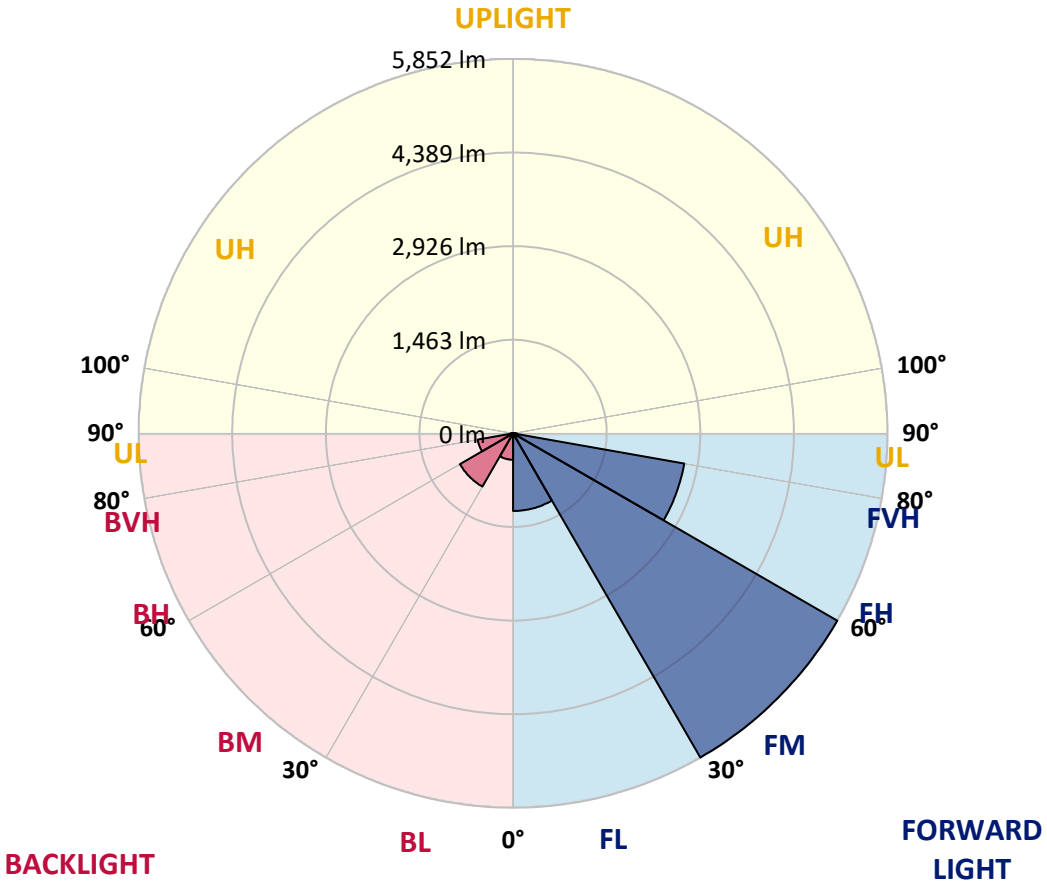
REPORT NUMBER: P633545
CATALOG NUMBER: GWS-SA2E-830-U-T2R-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1213.2	10.3			
FM	(30°-60°)	5852.3	49.5			
FH	(60°-80°)	2717.5	23.0			G2/5000
FVH	(80°-90°)	60.5	0.5			G1/100
BL	(0°-30°)	413.3	3.5	B1/500		
BM	(30°-60°)	960.1	8.1	B1/1000		
BH	(60°-80°)	561.3	4.7	B2/1000		G2/1000
BVH	(80°-90°)	40.9	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-G2
Type II Short



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Scaled Data Report

REPORT NUMBER: P633545
CATALOG NUMBER: GWS-SA2E-830-U-T2R-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	*1119.2*	1119.2
2.5°	1568.7	1574.5	1555.4	1548.8	1503.9	1443.3	1392.6	1316.1	1245.5	*1234.7*	1171.6
5°	1992.5	1967.6	1946.0	1931.8	1869.5	1800.5	1693.4	1549.6	1399.2	*1380.9*	1244.7
7.5°	2244.2	2240.1	2213.5	2205.2	2157.0	2088.0	1977.5	1798.9	1580.4	*1550.5*	1343.6
10°	2446.2	2443.7	2430.4	2437.8	2393.8	2326.5	2219.3	2034.9	1778.9	*1749.0*	1454.1
12.5°	2622.3	2626.5	2624.0	2651.4	2629.0	2576.6	2465.3	2262.5	1977.5	*1945.1*	1588.7
15°	2751.1	2754.4	2766.9	2826.7	2839.2	2828.4	2715.4	2486.0	2173.6	*2127.1*	1727.4
17.5°	2787.7	2794.3	2824.2	2920.6	2987.9	3032.8	2948.8	2713.7	2366.4	*2315.7*	1868.7
20°	2836.7	2844.2	2874.1	2974.6	3073.5	3175.7	3160.7	2944.7	2560.8	*2519.3*	2011.6
22.5°	3063.5	3057.7	3044.4	3092.6	3163.2	3290.3	3327.7	3166.5	2761.9	*2722.0*	2169.5
25°	3500.6	3489.8	3405.0	3361.0	3337.7	3415.0	3481.5	3368.4	2958.0	*2898.2*	2316.5
27.5°	3982.5	3976.7	3868.6	3764.0	3621.0	3587.8	3626.9	3544.6	3148.3	*3087.6*	2444.5
30°	4438.6	4421.2	4308.2	4176.9	3985.8	3842.9	3785.6	3717.4	3356.8	*3293.7*	2594.1
32.5°	4846.6	4824.2	4691.2	4545.8	4345.6	4176.9	4005.7	3901.1	3592.8	*3519.7*	2746.9
35°	5181.5	5159.0	5022.8	4868.2	4648.0	4523.4	4289.1	4100.5	3832.9	*3759.0*	2927.2
37.5°	5440.7	5419.9	5277.8	5125.8	4933.9	4835.0	4631.4	4324.8	4109.6	*4032.3*	3118.3
40°	5586.1	5571.2	5457.3	5336.8	5175.6	5090.1	4998.7	4608.1	4419.5	*4342.3*	3343.5
42.5°	5630.1	5620.2	5540.4	5478.1	5369.2	5304.4	5356.8	4941.3	4750.2	*4682.9*	3596.9
45°	5519.6	5519.6	5496.4	5527.9	5532.9	5532.1	5715.7	5317.7	5156.5	*5082.6*	3954.2
47.5°	5237.1	5255.4	5289.5	5444.9	5608.5	5745.6	6135.3	5819.6	5679.2	*5618.5*	4460.2
50°	4720.3	4770.2	4886.5	5189.8	5537.9	5886.9	6532.5	6561.6	6695.4	*6588.2*	5204.7
52.5°	3963.4	3955.9	4252.5	4684.6	5215.5	5892.7	6751.0	7216.3	7576.1	*7502.2*	5758.1
55°	3149.9	3137.5	3414.1	4009.9	4721.1	5670.0	6882.3	7516.3	8064.7	*7998.2*	6255.8
57.5°	2412.1	2396.3	2642.2	3179.8	4023.2	5197.2	6857.4	7873.6	8736.9	*8702.8*	6932.2
60°	1660.1	1641.0	1871.2	2341.5	3197.3	4474.4	6581.5	8057.2	9523.7	*9535.4*	7655.9
62.5°	997.1	986.3	1153.3	1518.0	2299.9	3578.7	5935.9	7945.8	10150.2	*10202.6*	8121.2
65°	*601.6*	*594.1*	*692.1*	*905.7*	*1459.1*	*2611.5*	*4940.5*	*7376.7*	*10240.8*	*10361.3*	*8132.0*
67.5°	437.9	438.7	467.0	551.7	850.8	1686.7	3707.5	6356.3	9768.8	*9893.5*	7619.3
70°	380.5	382.2	397.2	416.3	514.3	965.5	2410.4	5017.8	8373.8	*8470.1*	6390.4
72.5°	338.2	338.2	348.1	358.1	402.2	588.3	1291.2	3507.2	6608.9	*6634.7*	4877.4
75°	297.5	295.0	300.0	304.9	349.0	411.3	628.2	2443.7	4881.5	*4821.7*	3152.4
77.5°	236.8	234.3	235.1	240.1	280.0	294.1	318.2	1526.4	2751.1	*2596.5*	1392.6
80°	168.7	167.0	176.1	188.6	206.9	180.3	199.4	738.7	1091.0	*1015.4*	540.1
82.5°	100.5	103.9	118.0	128.0	142.9	113.0	128.8	246.8	386.4	*376.4*	219.4
85°	14.1	15.0	42.4	49.0	61.5	44.0	68.1	111.3	154.5	*165.3*	77.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.8	19.9	44.0	*44.9*	19.1
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: P633545
CATALOG NUMBER: GWS-SA2E-830-U-T2R-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2
2.5°	1139.2	1100.1	1044.4	997.9	958.9	927.3	900.7	880.7	874.9	866.6	866.6
5°	1180.7	1110.1	1010.4	939.7	899.0	874.9	858.3	850.0	845.9	840.9	838.4
7.5°	1238.0	1139.2	1004.6	933.1	901.5	886.6	875.8	870.8	867.5	862.5	862.5
10°	1317.0	1182.4	1022.8	956.4	931.4	916.5	904.0	895.7	888.2	880.7	879.1
12.5°	1402.6	1238.9	1056.1	987.9	961.3	943.1	925.6	913.2	904.0	894.9	892.4
15°	1497.3	1297.0	1091.8	1018.7	985.4	960.5	939.7	920.6	908.2	894.9	893.2
17.5°	1590.3	1356.0	1121.7	1039.4	997.1	966.3	936.4	911.5	895.7	880.7	876.6
20°	1701.7	1415.0	1142.5	1045.3	994.6	953.9	918.1	886.6	869.1	851.7	849.2
22.5°	1803.9	1469.9	1152.5	1037.0	975.5	927.3	885.7	851.7	832.6	815.1	811.8
25°	1902.7	1518.0	1148.3	1017.0	946.4	890.7	847.5	813.4	795.2	776.9	771.9
27.5°	1998.3	1550.5	1131.7	986.3	909.8	850.0	808.5	777.7	761.9	746.1	739.5
30°	2092.2	1580.4	1105.9	946.4	863.3	807.6	773.6	752.0	736.2	719.6	714.6
32.5°	2186.9	1602.0	1066.9	899.9	815.9	770.2	749.5	733.7	717.1	700.4	695.5
35°	2282.5	1611.1	1019.5	846.7	776.1	746.1	738.7	720.4	698.0	678.0	671.4
37.5°	2396.3	1619.4	960.5	794.3	741.2	734.5	732.8	705.4	678.8	651.4	643.9
40°	2533.4	1630.2	899.9	747.0	712.9	730.4	723.7	686.3	633.1	606.6	598.2
42.5°	2701.2	1650.2	836.7	703.8	692.1	714.6	707.1	639.8	604.1	589.1	585.0
45°	2948.0	1723.3	773.6	669.7	676.3	692.1	680.5	612.4	598.2	588.3	583.3
47.5°	3387.6	1835.4	718.7	643.9	663.9	672.2	627.3	604.9	594.1	580.8	575.0
50°	3844.6	1884.5	674.7	628.2	649.8	653.9	598.2	594.9	587.4	573.3	567.5
52.5°	4153.6	1877.8	648.1	622.3	638.1	622.3	585.0	584.1	579.1	562.5	555.9
55°	4502.6	1889.5	636.5	624.0	633.1	569.2	568.3	570.8	568.3	550.1	546.7
57.5°	4973.7	1925.2	630.6	629.8	629.8	543.4	552.5	555.9	550.9	542.6	540.1
60°	5426.6	1927.7	619.8	636.5	627.3	527.6	534.3	537.6	531.8	530.1	529.3
62.5°	5596.9	1808.0	595.8	631.5	617.4	510.2	515.2	516.8	511.0	515.2	514.3
65°	*5343.5*	*1553.8*	*555.9*	*607.4*	*586.6*	*494.4*	*491.1*	*495.2*	*485.2*	*496.0*	*496.9*
67.5°	4744.4	1234.7	495.2	561.7	543.4	476.9	470.3	470.3	453.7	470.3	469.5
70°	3825.4	872.4	406.3	488.6	496.0	456.2	452.8	433.7	407.1	432.1	429.6
72.5°	2899.8	626.5	319.9	386.4	427.1	427.1	427.9	395.5	364.8	376.4	366.4
75°	1837.1	441.2	255.9	295.8	334.9	374.7	393.8	334.0	306.6	301.6	296.6
77.5°	827.6	290.0	199.4	226.8	237.6	295.8	359.8	287.5	250.1	239.3	236.0
80°	346.5	180.3	142.1	160.4	146.2	248.4	317.4	223.5	183.6	168.7	157.9
82.5°	152.1	107.2	90.6	86.4	91.4	184.5	236.8	148.7	114.7	155.4	157.0
85°	64.0	56.5	46.5	42.4	37.4	70.6	111.3	58.2	71.5	40.7	33.2
87.5°	15.0	16.6	12.5	8.3	5.0	0.8	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

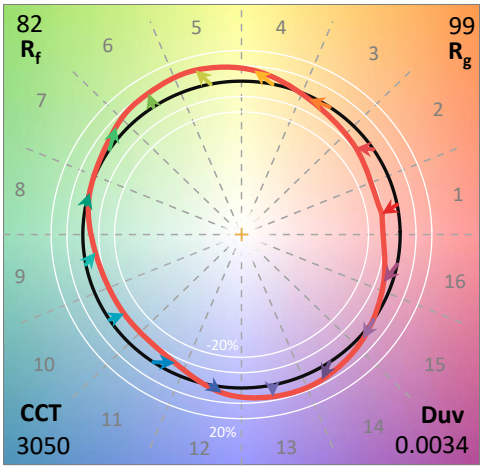
Test Information

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

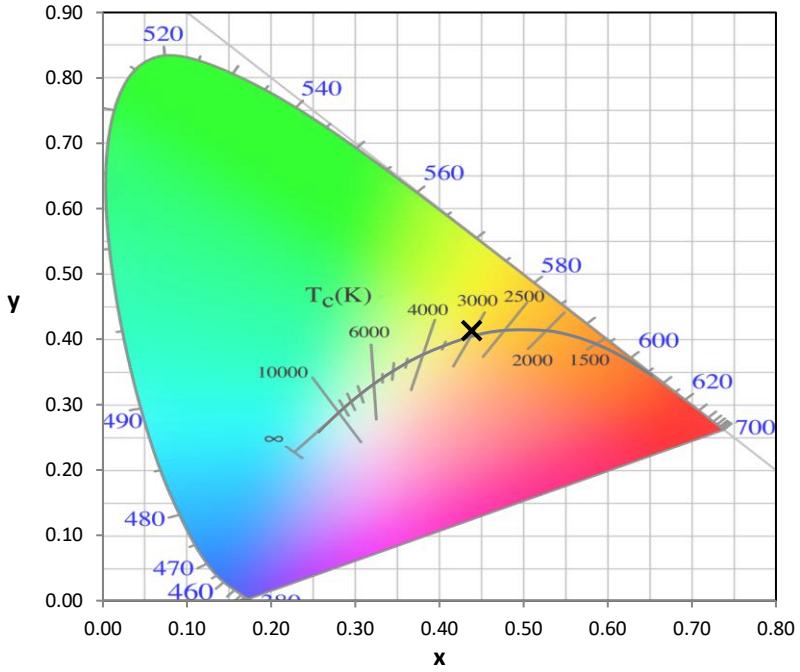
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

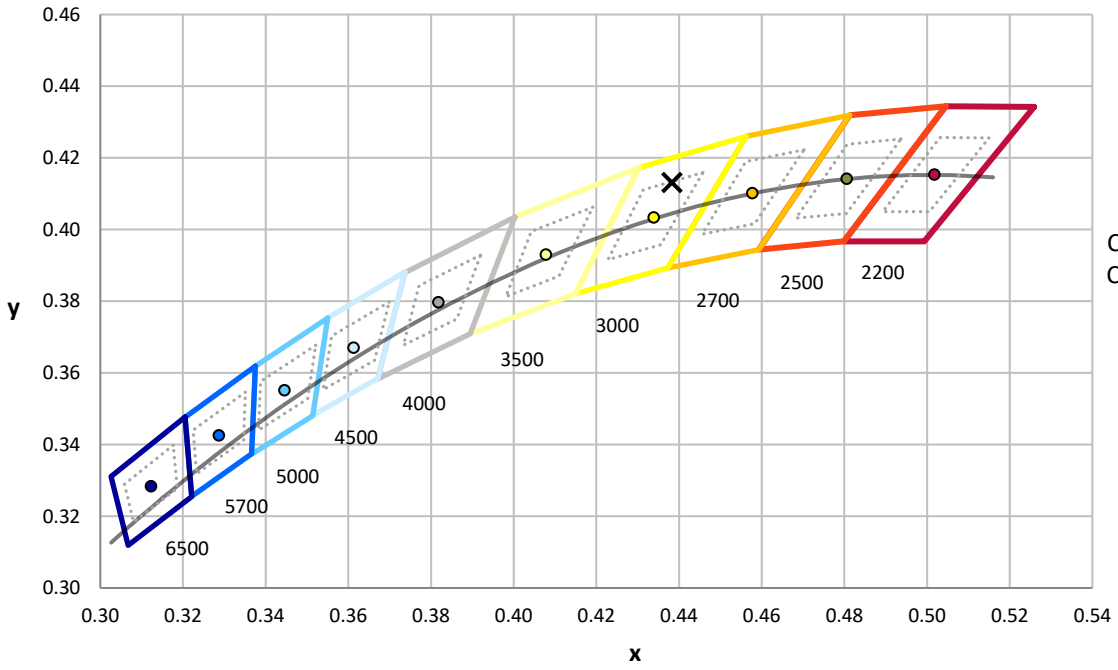
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

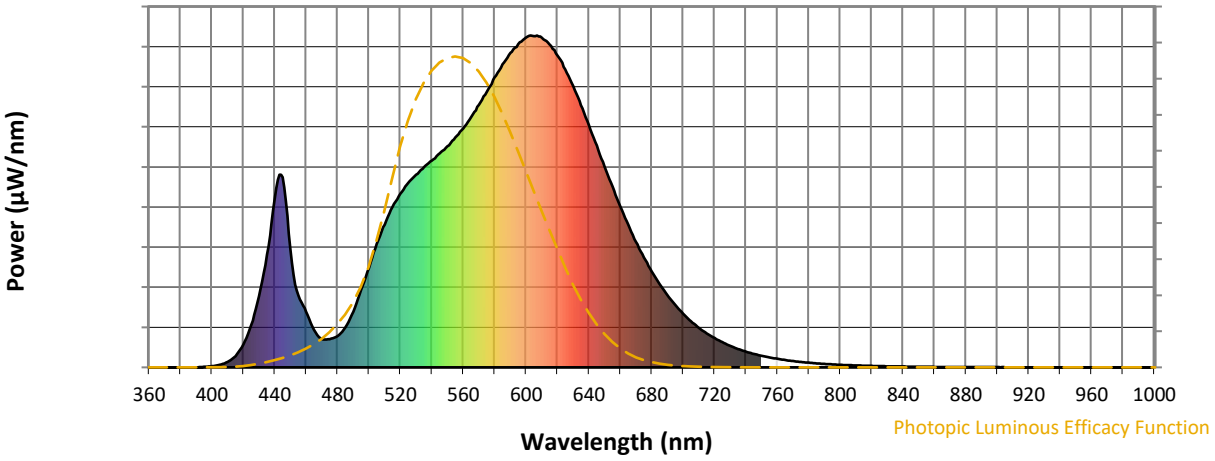


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

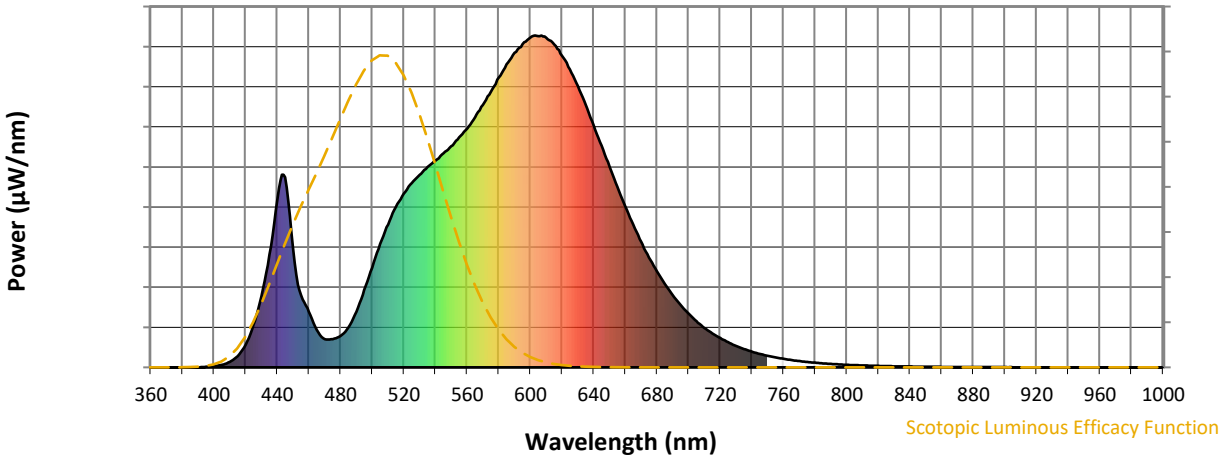


Photopic Lumens: NR

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

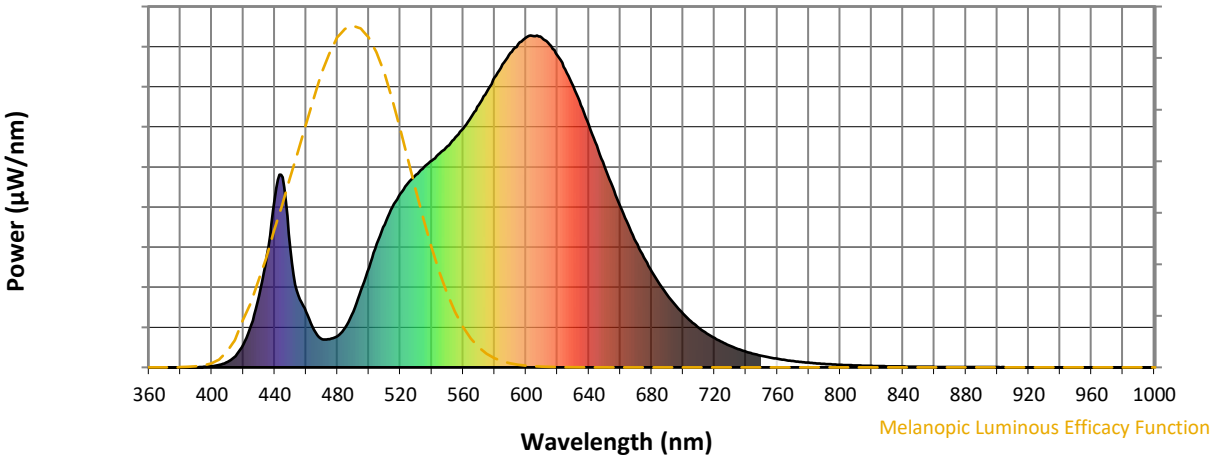


Scotopic Lumens: NR **S/P: 1.27**

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			

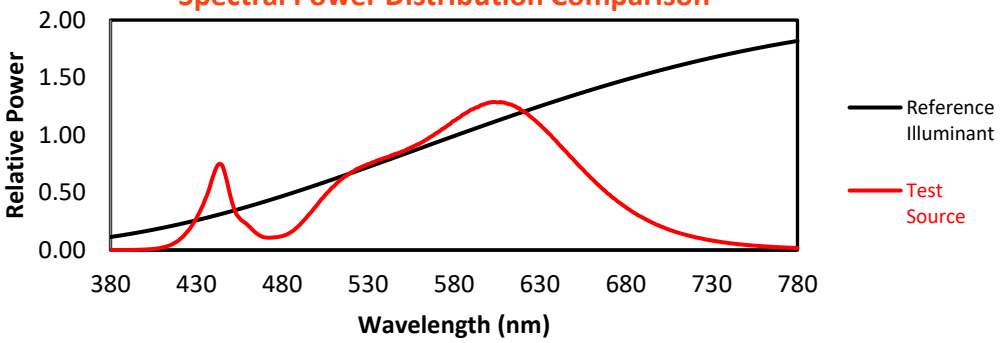
REPORT NUMBER: SP1-2408-195-9

TM-30-18

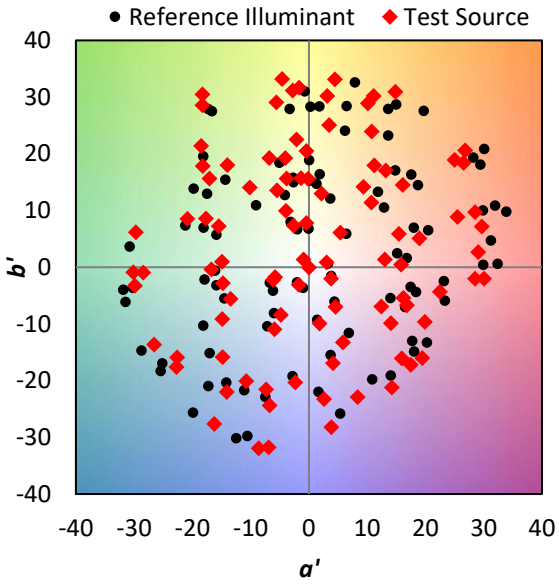
Summary

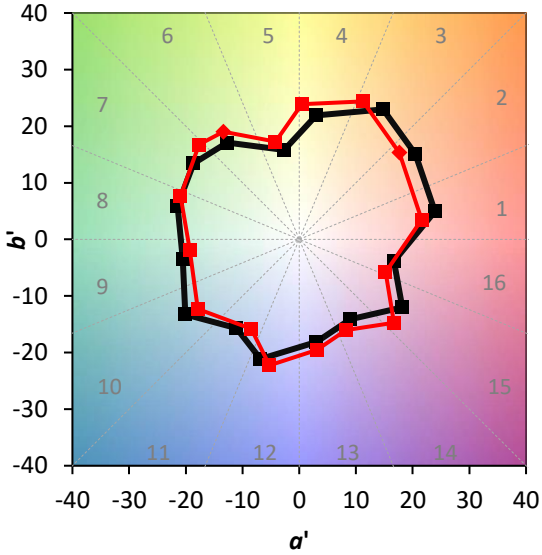
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

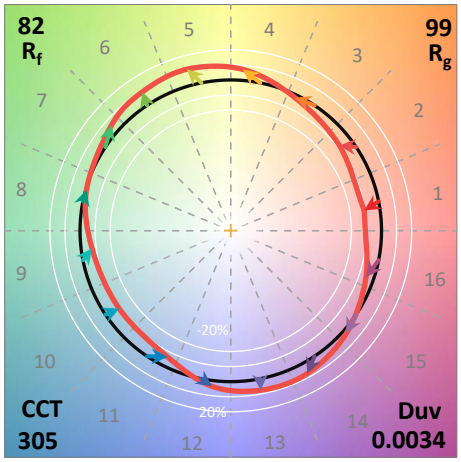
Spectral Power Distribution Comparison

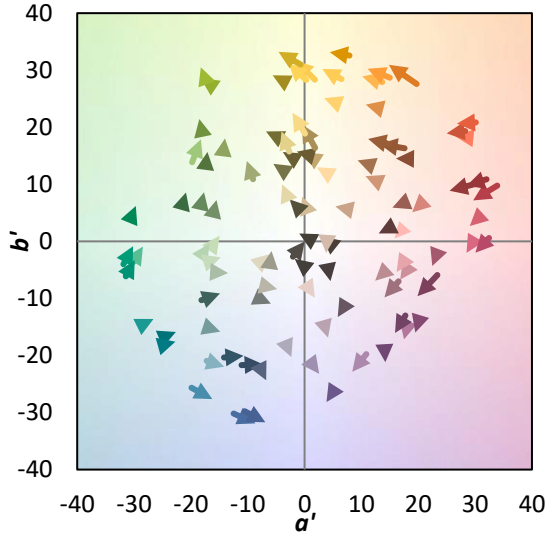


Color Vector Graphics







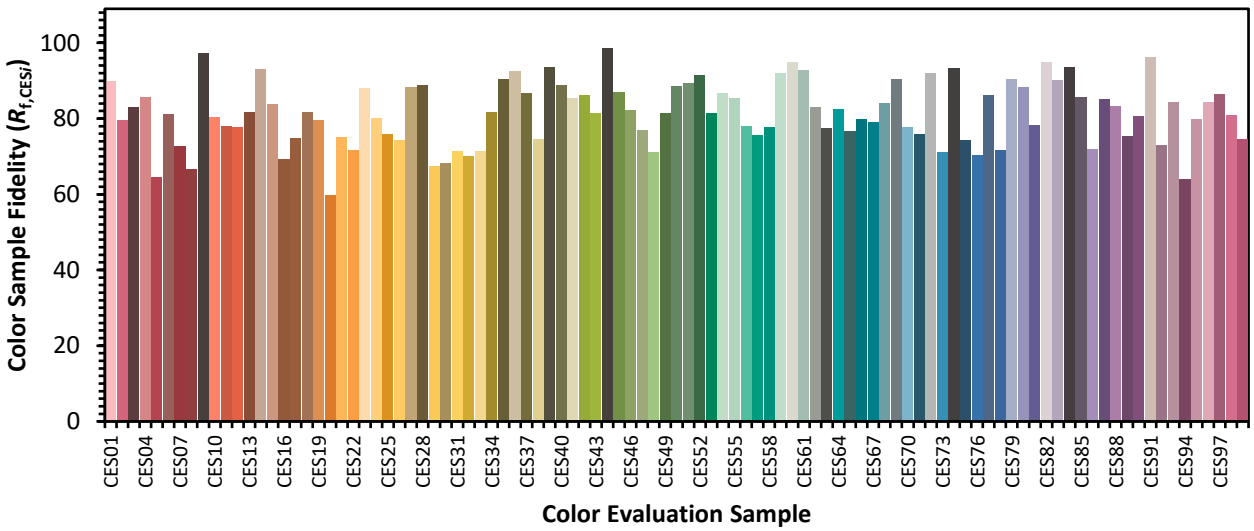


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

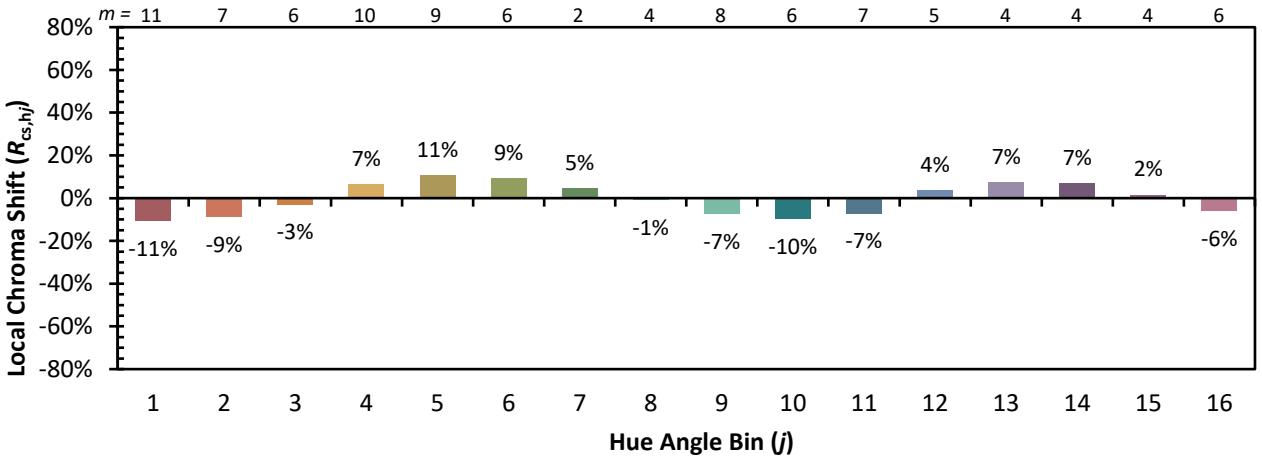
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

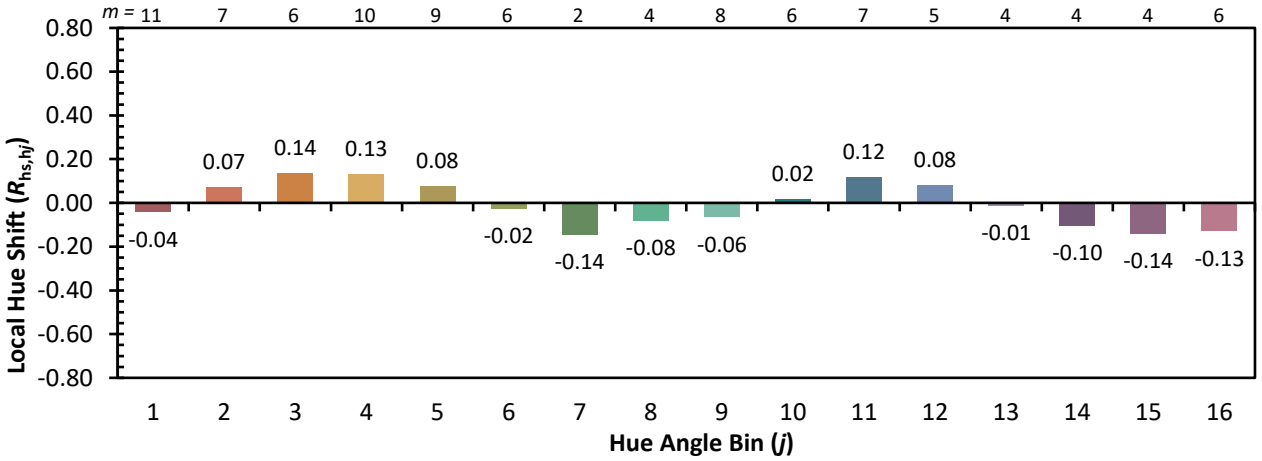


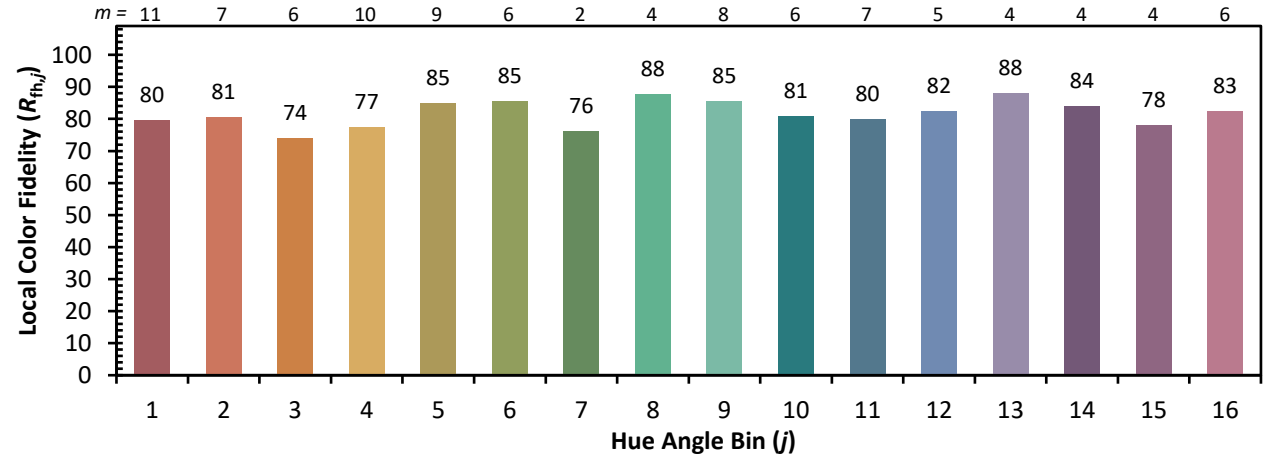
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



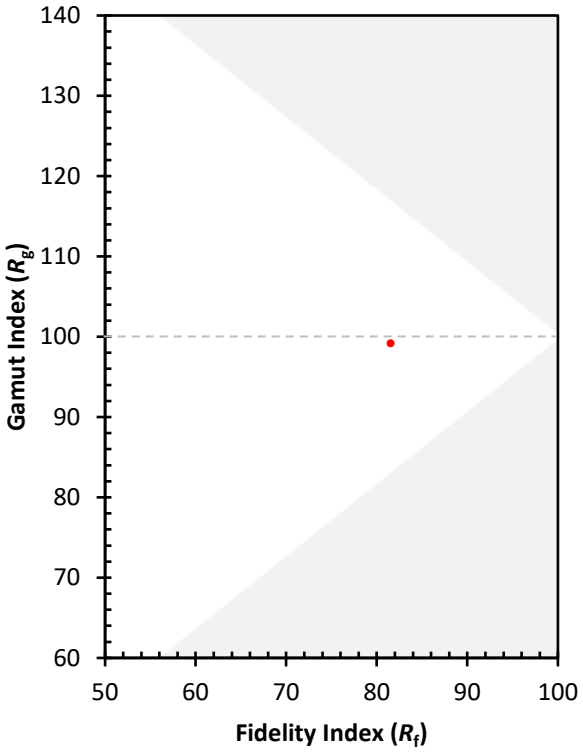


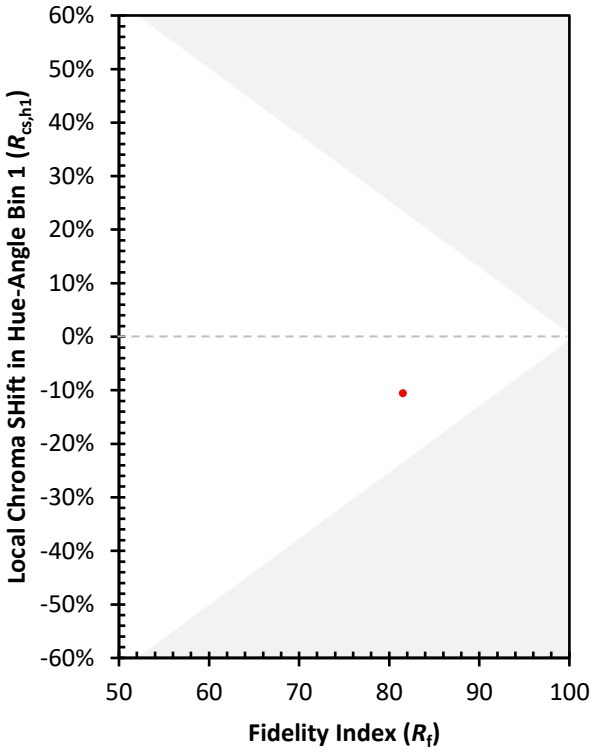


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





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