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: P324021

Luminaire Tested: **GLEON-SA7D-830-U-SL4-HSS**

Issue Date: 3/3/2020

Report Generated By E0585644

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

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P324021
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA7D-830-U-SL4-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(7) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
	SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	35395 lumens
Efficiency:	N/A
Efficacy:	79.0 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B3 - U0 - G5

Input Watts (W):	448
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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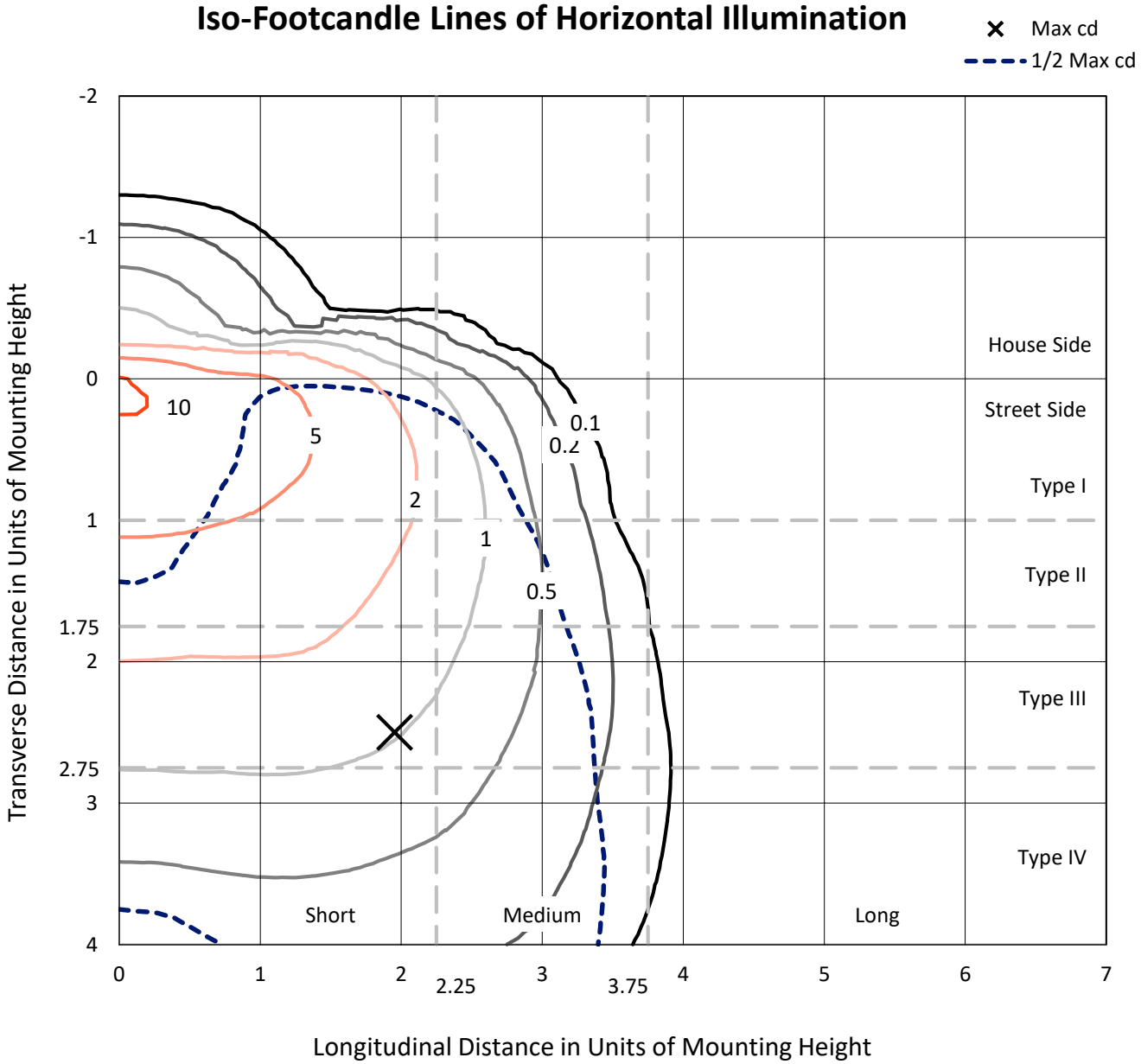
Scaled Data Report

REPORT NUMBER: P324021
CATALOG NUMBER: GLEON-SA7D-830-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 11 fc
Type IV - Short - N/A

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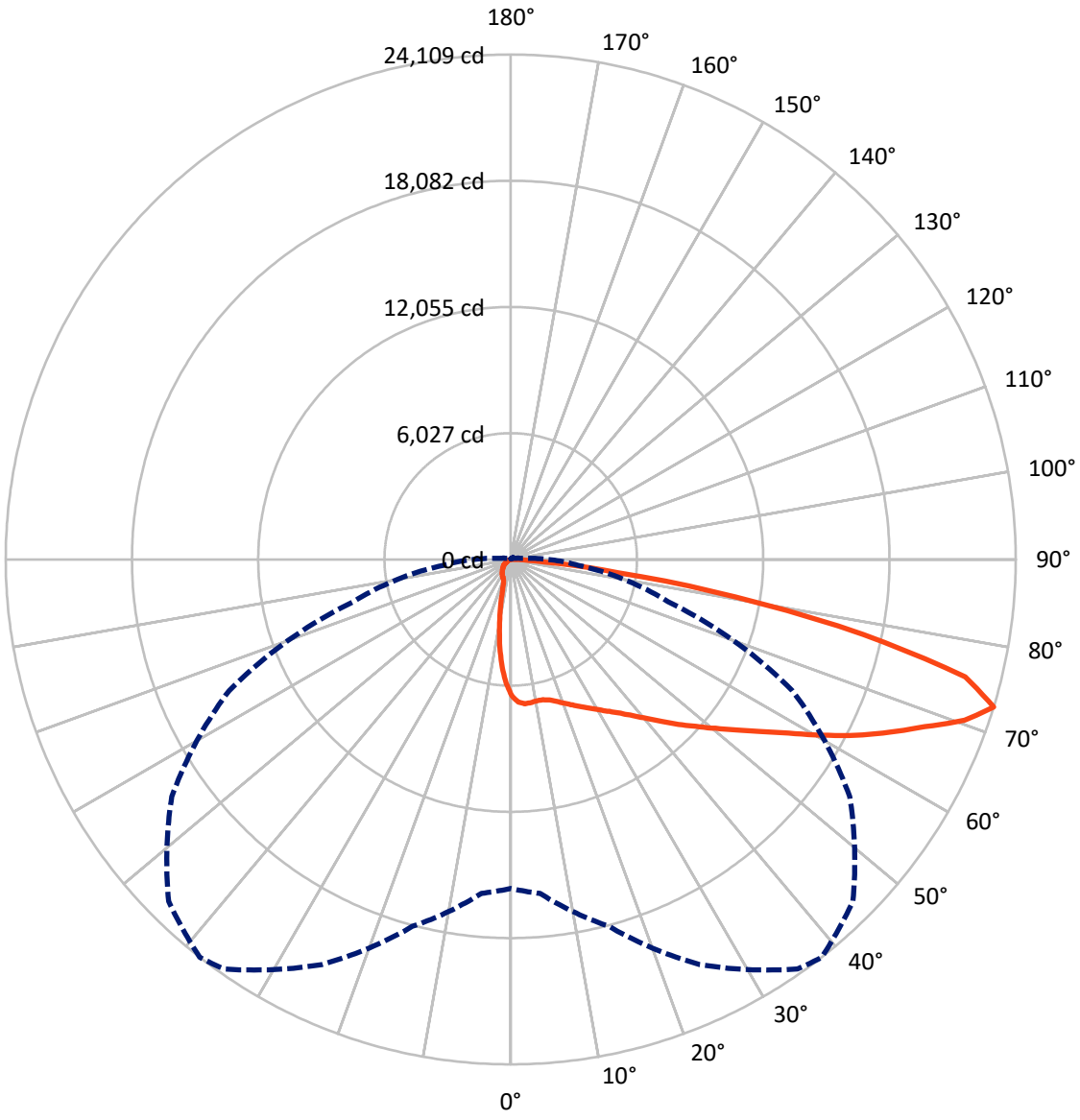
Luminous Intensity Polar Plot



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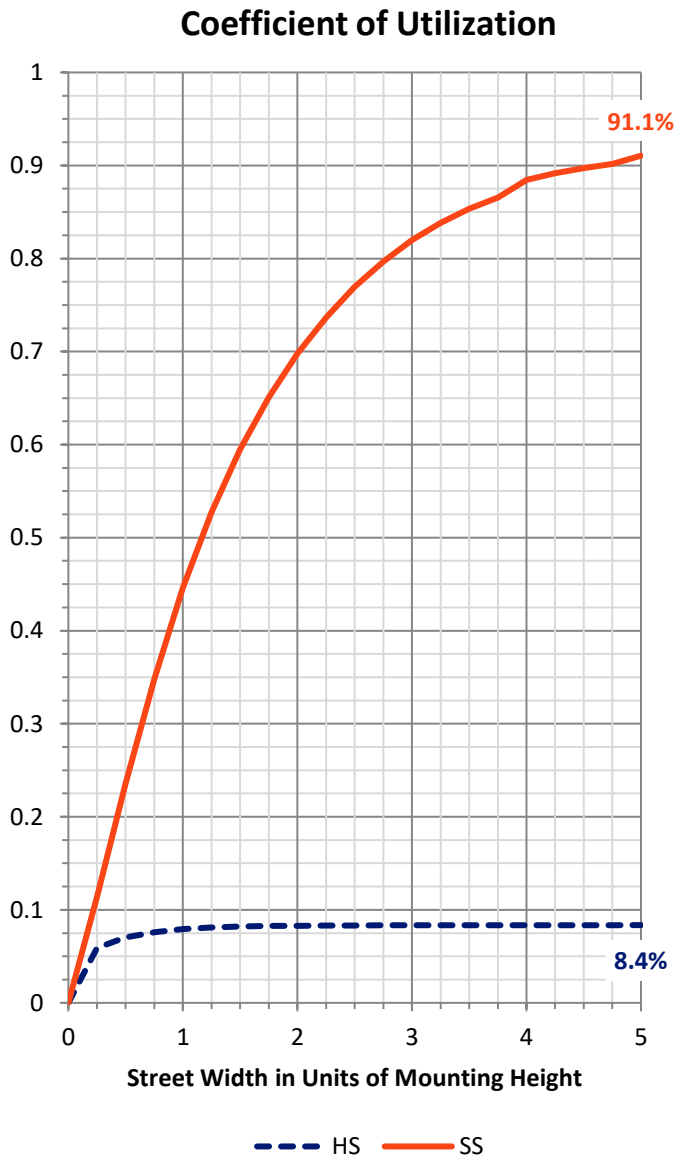
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2978.6	0.0	2978.6
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	32416.4	0.0	32416.4
	% Fixture	91.6	0.0	91.6
Total	Lumens	35395.0	0.0	35395.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	554.7	1.6
10°-20°	1356.4	3.8
20°-30°	2157.3	6.1
30°-40°	3243.2	9.2
40°-50°	4947.7	14.0
50°-60°	6992.8	19.8
60°-70°	8771.3	24.8
70°-80°	6558.5	18.5
80°-90°	813.2	2.3
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°	35395.0	100.0
0°-180°	35395.0	100.0



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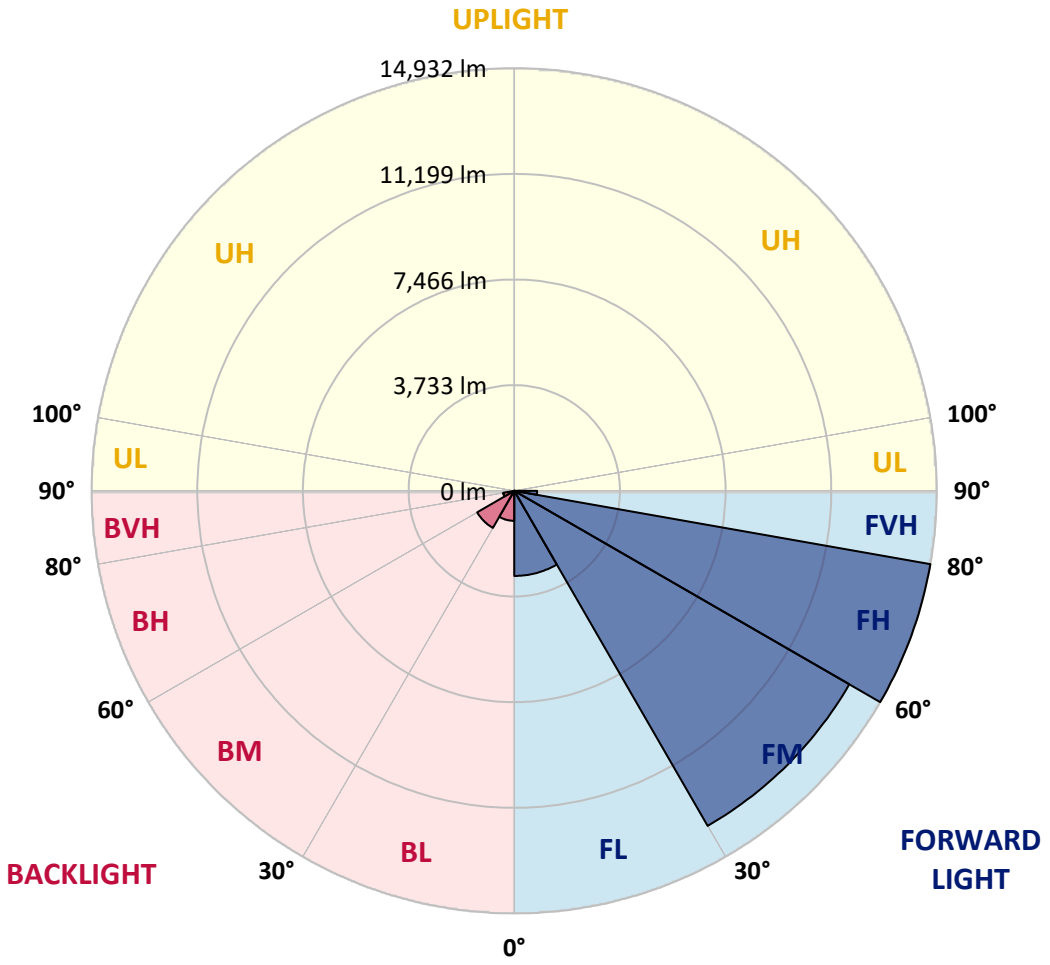
REPORT NUMBER: P324021
CATALOG NUMBER: GLEON-SA7D-830-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	3007.7	8.5			
FM	(30°-60°)	13671.1	38.6			
FH	(60°-80°)	14931.9	42.2			G5
FVH	(80°-90°)	805.6	2.3			G5
BL	(0°-30°)	1060.6	3.0	B3/2500		
BM	(30°-60°)	1512.6	4.3	B2/2500		
BH	(60°-80°)	397.9	1.1	B1/500		G1/500
BVH	(80°-90°)	7.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
Type IV Short



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Scaled Data Report

REPORT NUMBER: P324021
CATALOG NUMBER: GLEON-SA7D-830-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	6509.0	6509.0	6509.0	6509.0	6509.0	6509.0	6509.0	6509.0	6509.0	6509.0	6509.0
2.5°	6908.9	6910.3	6894.2	6867.7	6833.9	6816.2	6786.8	6739.8	6689.8	6600.2	6503.1
5°	7050.0	7050.0	7029.4	6994.1	6939.7	6923.6	6867.7	6792.7	6689.8	6544.3	6381.1
7.5°	7035.3	7038.2	7010.3	6973.5	6919.1	6904.4	6836.8	6753.0	6625.2	6448.8	6240.0
10°	6958.8	6966.2	6944.1	6926.5	6876.5	6860.3	6797.1	6713.3	6585.5	6397.3	6157.7
12.5°	6880.9	6888.3	6895.6	6911.8	6880.9	6875.0	6825.1	6754.5	6632.5	6437.0	6166.5
15°	6830.9	6845.6	6898.6	6961.8	6969.1	6963.2	6930.9	6864.8	6741.3	6538.4	6229.7
17.5°	6830.9	6854.5	6964.7	7085.3	7127.9	7132.3	7104.4	7011.8	6864.8	6647.2	6288.5
20°	6888.3	6920.6	7092.6	7263.1	7333.7	7333.7	7279.3	7149.9	6977.9	6745.7	6328.2
22.5°	7035.3	7077.9	7294.0	7491.0	7565.9	7549.8	7476.3	7288.1	7095.5	6857.4	6378.2
25°	7324.9	7357.2	7582.1	7780.5	7826.1	7789.4	7696.8	7455.7	7245.5	7008.8	6469.3
27.5°	7698.2	7702.6	7934.9	8102.5	8074.5	8049.6	7933.4	7665.9	7461.6	7224.9	6626.6
30°	8108.4	8108.4	8312.7	8440.6	8355.3	8334.7	8218.6	7920.2	7737.9	7518.9	6850.1
32.5°	8505.2	8522.9	8689.0	8769.8	8674.3	8653.7	8540.5	8242.1	8105.4	7967.2	7198.4
35°	8888.9	8902.1	9059.4	9103.5	9012.4	9018.3	8937.4	8684.6	8633.1	8615.5	7723.2
37.5°	9260.8	9263.7	9424.0	9451.9	9406.3	9456.3	9463.7	9240.2	9335.8	9478.4	8462.6
40°	9600.4	9603.3	9762.1	9834.1	9912.0	9976.7	10034.0	9914.9	10231.0	10561.7	9343.1
42.5°	9872.3	9903.2	10104.6	10241.3	10447.1	10570.5	10726.4	10720.5	11296.7	11793.6	10407.4
45°	10111.9	10164.8	10445.6	10685.2	11038.0	11235.0	11479.0	11670.1	12496.2	13165.0	11484.9
47.5°	10428.0	10477.9	10798.4	11190.9	11661.3	11920.0	12324.2	12737.3	13814.8	14511.5	12537.4
50°	10873.4	10851.3	11167.4	11730.4	12334.5	12674.1	13250.3	13869.2	15123.0	15684.6	13156.2
52.5°	11348.2	11339.3	11573.1	12316.9	13128.3	13525.2	14286.6	15039.3	16374.0	16493.1	13439.9
55°	11936.2	11872.9	12069.9	12985.7	14070.5	14496.8	15393.5	16197.6	17370.6	16948.7	13582.5
57.5°	12552.1	12447.7	12635.9	13731.0	15133.3	15637.5	16619.5	17326.5	18033.6	17260.4	13581.0
60°	13188.6	13065.1	13288.5	14662.9	16453.4	17036.9	17948.3	18089.4	18652.4	17417.7	13481.1
62.5°	13720.7	13647.2	13979.4	15659.6	17927.7	18501.0	18952.3	18783.3	19174.3	17539.7	13247.4
65°	14283.7	14288.1	14824.6	16822.3	19494.7	19881.3	19919.6	19682.9	19610.9	17514.7	12456.5
67.5°	15045.1	15115.7	16010.9	18401.1	21019.1	21317.5	21314.6	20657.5	19929.8	16521.0	10702.8
70°	15850.7	16016.8	17378.0	20207.7	22683.1	22985.9	22830.1	21277.8	18765.6	13359.1	7574.8
72.5°	15715.4	16003.6	18138.0	21346.9	23878.2	24109.0	23096.2	19753.4	14832.0	7764.4	3225.1
75°	12124.3	12458.0	16631.2	20218.0	22624.3	22417.0	19844.6	15371.5	8105.4	2166.7	726.2
77.5°	6404.7	6582.5	10986.6	15402.3	17641.1	17207.5	13979.4	8527.3	2471.0	536.5	326.3
80°	3354.5	3395.6	4787.7	8739.0	10888.1	10891.0	8284.7	3745.5	1018.7	274.9	219.0
82.5°	1796.3	1831.6	2529.8	4038.0	5705.0	5171.4	3172.2	2060.9	592.4	155.8	210.2
85°	432.2	439.5	1434.7	1844.8	2243.2	1602.3	942.3	1730.2	160.2	91.1	170.5
87.5°	166.1	169.0	532.1	798.2	571.8	370.4	441.0	645.3	20.6	35.3	26.5
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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REPORT NUMBER: P324021
CATALOG NUMBER: GLEON-SA7D-830-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6509.0	6509.0	6509.0	6509.0	6509.0	6509.0	6509.0	6509.0	6509.0	6509.0	6509.0
2.5°	6444.3	6406.1	6312.0	6193.0	6087.1	6010.7	5896.0	5821.1	5771.1	5769.6	5750.5
5°	6281.2	6203.3	6000.4	5759.3	5540.3	5343.3	5111.1	4927.3	4790.6	4768.6	4721.5
7.5°	6106.3	5978.4	5666.7	5290.4	4922.9	4549.6	4115.9	3846.9	3616.1	3505.9	3494.1
10°	5998.9	5819.6	5377.1	4833.3	4257.0	3649.9	3082.5	2690.0	2406.3	2325.5	2265.2
12.5°	5976.9	5740.2	5153.7	4404.0	3580.8	2778.2	2150.6	1733.1	1506.7	1434.7	1415.6
15°	5998.9	5703.5	4965.6	3979.2	2895.8	1971.2	1443.5	1201.0	1115.7	1095.1	1093.7
17.5°	6012.2	5659.4	4752.4	3507.3	2231.4	1408.2	1105.4	1034.9	1021.6	1020.2	1023.1
20°	6010.7	5591.8	4498.1	2981.1	1659.6	1106.9	999.6	984.9	981.9	983.4	981.9
22.5°	6000.4	5512.4	4218.8	2438.7	1253.9	989.3	954.0	945.2	943.7	943.7	943.7
25°	6019.5	5449.2	3911.6	1919.8	1033.4	934.9	912.9	905.5	904.0	904.0	901.1
27.5°	6088.6	5413.9	3575.0	1477.3	933.4	886.4	868.8	867.3	862.9	861.4	864.3
30°	6200.3	5413.9	3206.0	1149.5	873.2	836.4	823.2	820.2	818.8	817.3	818.8
32.5°	6397.3	5455.1	2803.2	955.5	815.8	780.6	771.7	776.1	771.7	771.7	771.7
35°	6753.0	5578.5	2381.4	833.5	755.6	726.2	717.3	723.2	720.3	720.3	718.8
37.5°	7271.9	5807.8	1956.5	760.0	702.6	671.8	660.0	668.8	665.9	665.9	664.4
40°	7904.0	6141.5	1552.3	704.1	651.2	618.9	608.6	613.0	605.6	605.6	608.6
42.5°	8684.6	6564.9	1199.5	649.7	599.7	568.9	563.0	558.6	545.4	538.0	539.5
45°	9551.9	7005.9	934.9	596.8	551.2	526.2	517.4	505.7	483.6	468.9	470.4
47.5°	10326.5	7345.4	760.0	545.4	507.1	488.0	474.8	452.8	420.4	402.8	404.2
50°	10733.7	7396.9	646.8	493.9	466.0	446.9	427.8	394.0	355.7	336.6	335.2
52.5°	10838.1	7155.8	563.0	446.9	424.8	402.8	377.8	332.2	289.6	269.0	266.1
55°	10876.3	6788.3	488.0	402.8	380.7	355.7	323.4	271.9	232.3	211.7	210.2
57.5°	10749.9	6240.0	429.2	363.1	336.6	305.8	266.1	217.6	179.3	163.2	163.2
60°	10469.1	5497.7	383.7	320.5	291.1	255.8	214.6	169.0	133.8	120.5	120.5
62.5°	9909.1	4536.3	341.0	276.4	248.4	211.7	173.5	127.9	94.1	86.7	88.2
65°	8852.2	3441.2	298.4	236.7	211.7	174.9	135.2	91.1	63.2	63.2	66.1
67.5°	7219.0	2390.2	254.3	201.4	182.3	142.6	102.9	63.2	44.1	50.0	55.9
70°	4778.9	1340.6	217.6	166.1	155.8	113.2	76.4	42.6	35.3	47.0	57.3
72.5°	*1803.7*	*521.8*	*182.3*	*133.8*	*135.2*	*86.7*	*54.4*	*32.3*	*32.3*	*51.4*	*67.6*
75°	502.7	255.8	130.8	98.5	105.8	63.2	39.7	27.9	30.9	58.8	79.4
77.5°	295.5	188.2	85.3	57.3	72.0	44.1	26.5	22.0	26.5	50.0	76.4
80°	238.1	100.0	50.0	29.4	39.7	25.0	17.6	13.2	7.3	19.1	39.7
82.5°	238.1	60.3	23.5	20.6	20.6	13.2	8.8	5.9	1.5	0.0	10.3
85°	160.2	25.0	14.7	13.2	10.3	4.4	2.9	1.5	0.0	0.0	0.0
87.5°	26.5	10.3	5.9	2.9	1.5	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

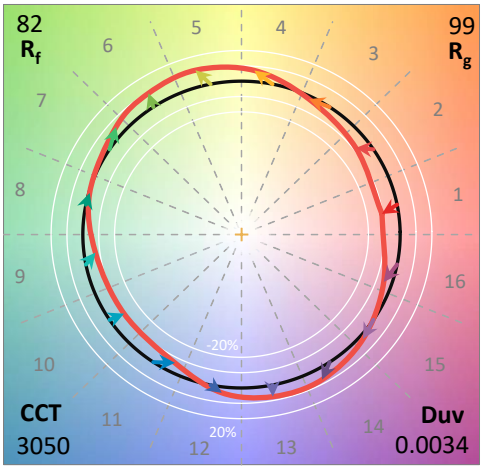
Test Information

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

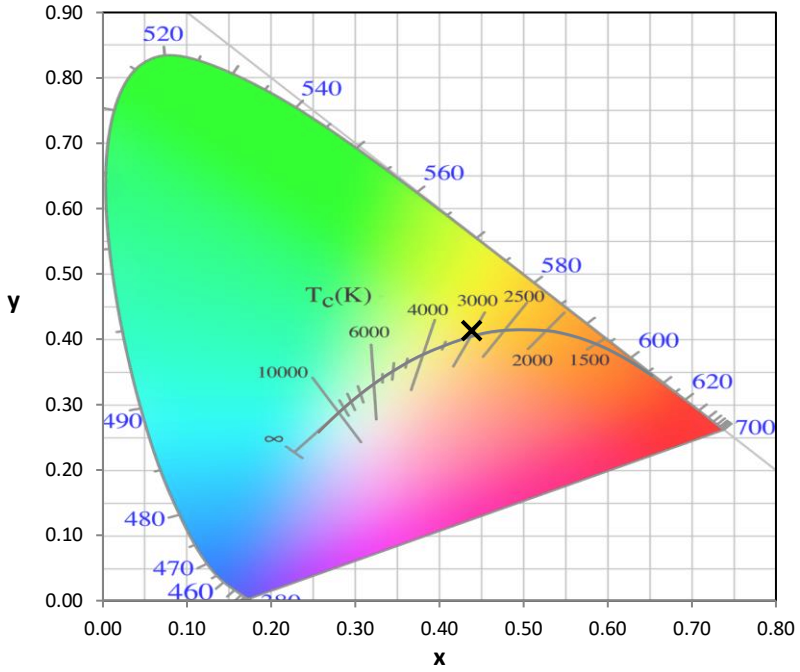
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

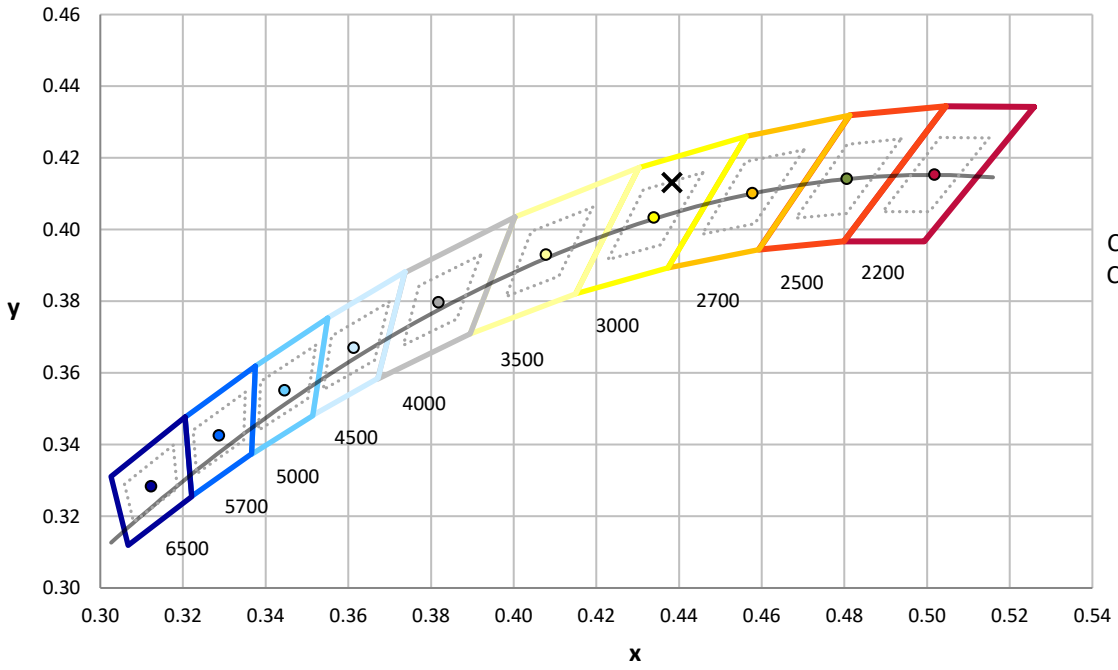
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

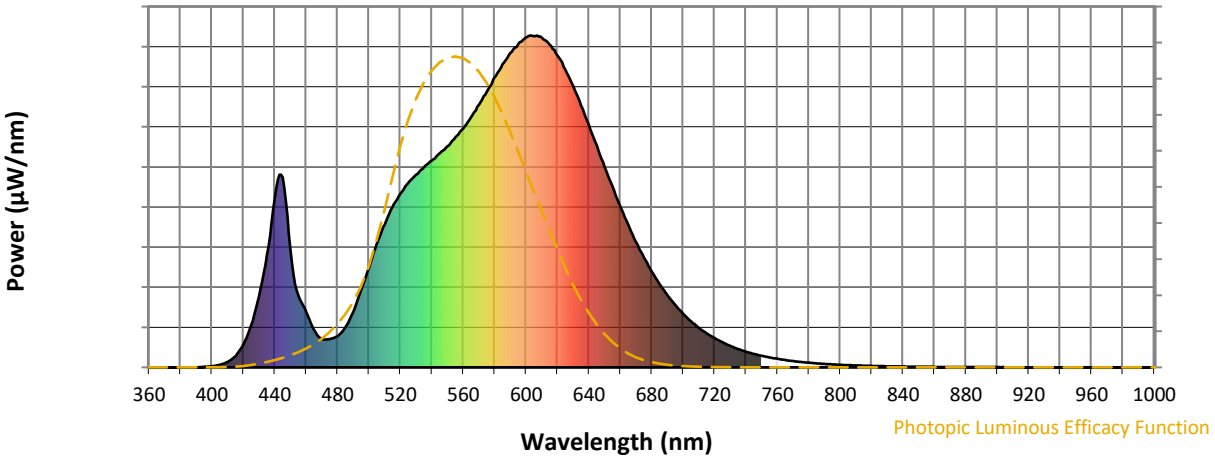


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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			

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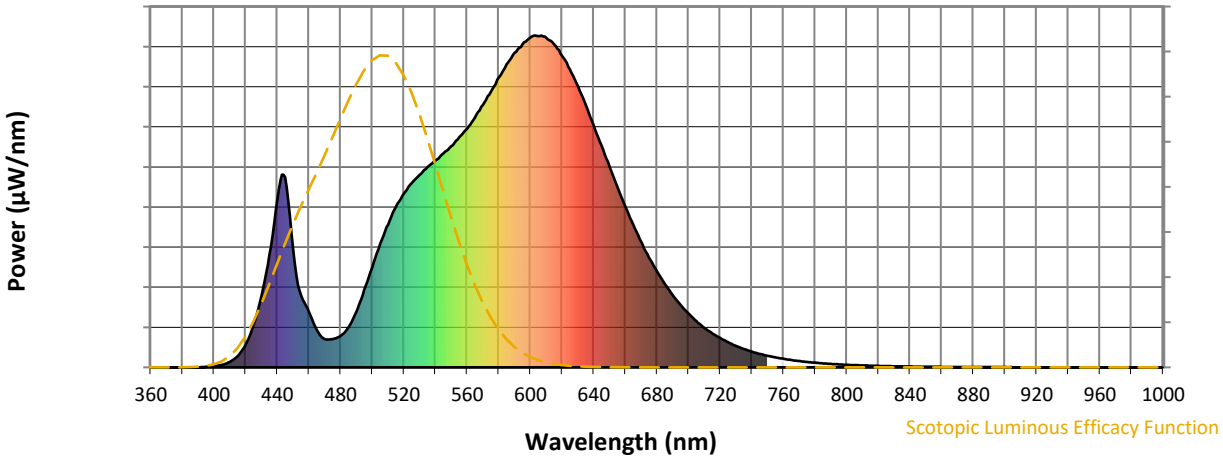
Scotopic Flux vs. Wavelength



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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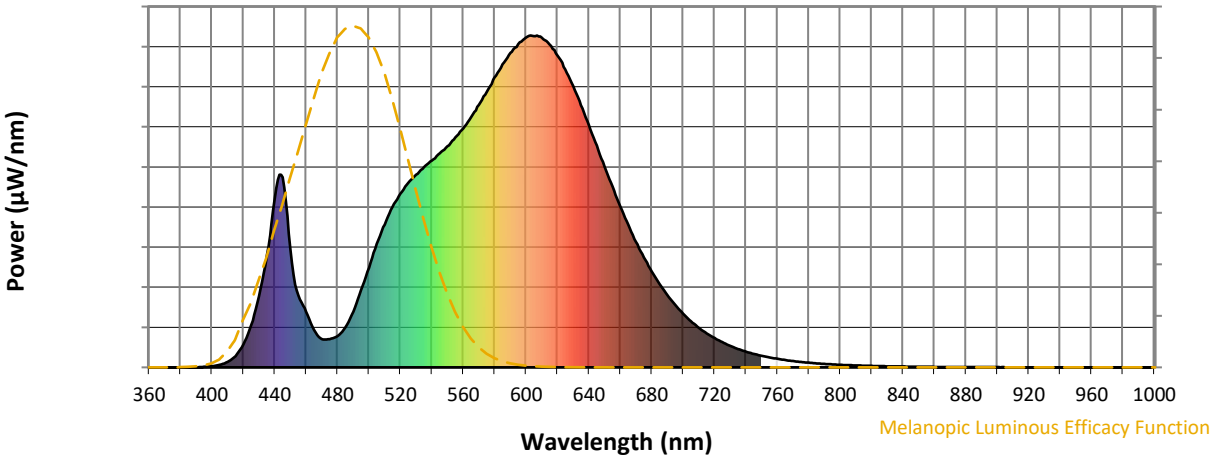
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.32**

λ (nm)	Power 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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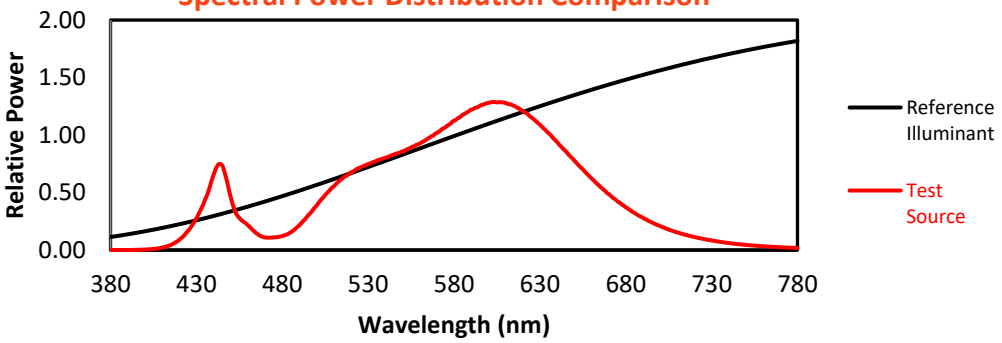
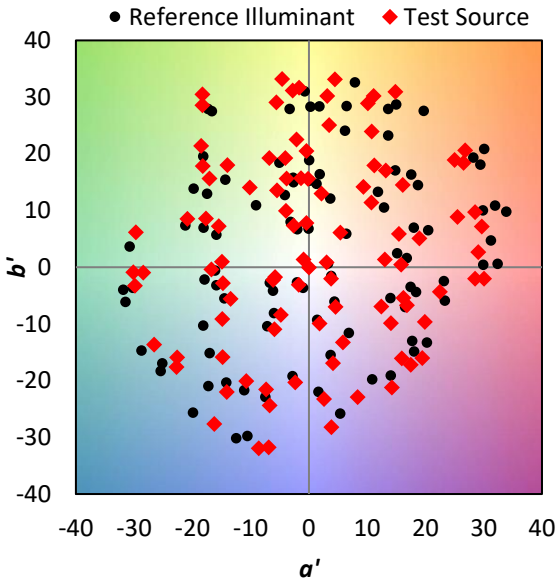
Summary

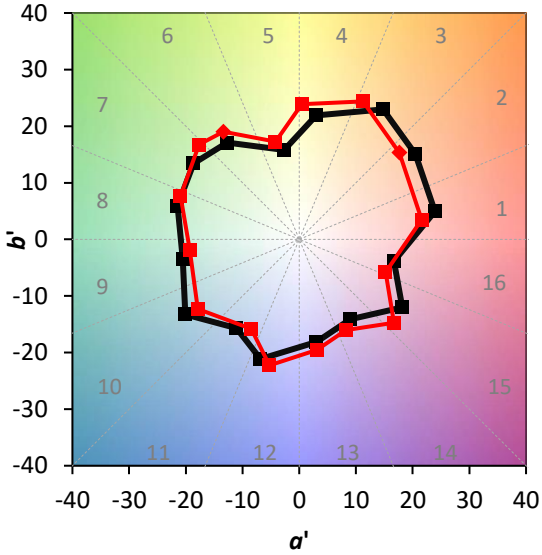
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

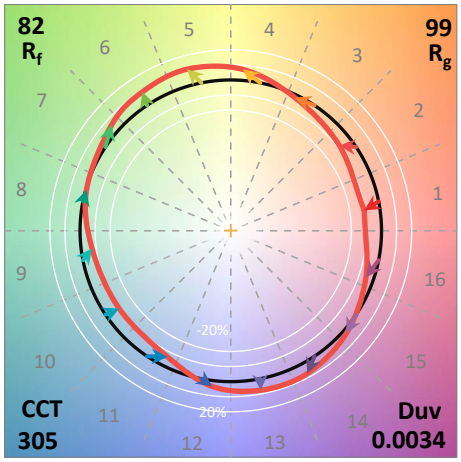
Spectral Power Distribution Comparison

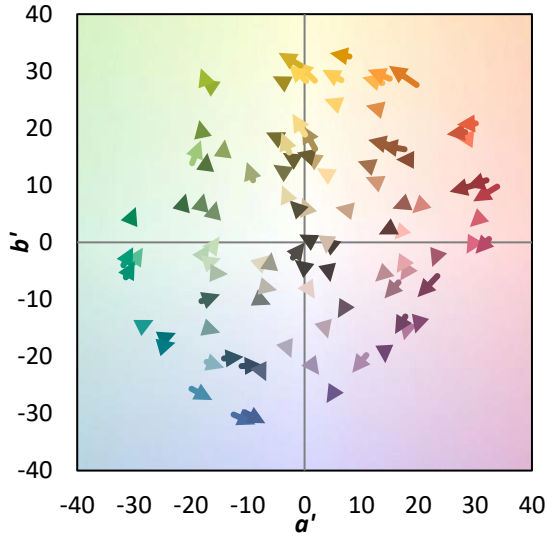


Color Vector Graphics









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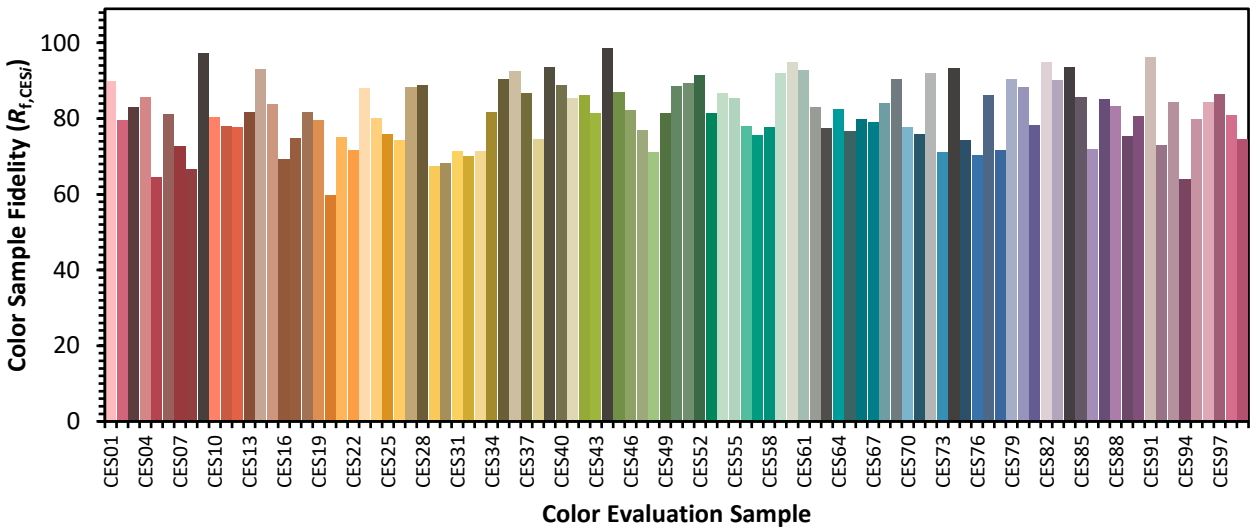
Individual Sample Fidelity Index ($R_{f,i}$)

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	



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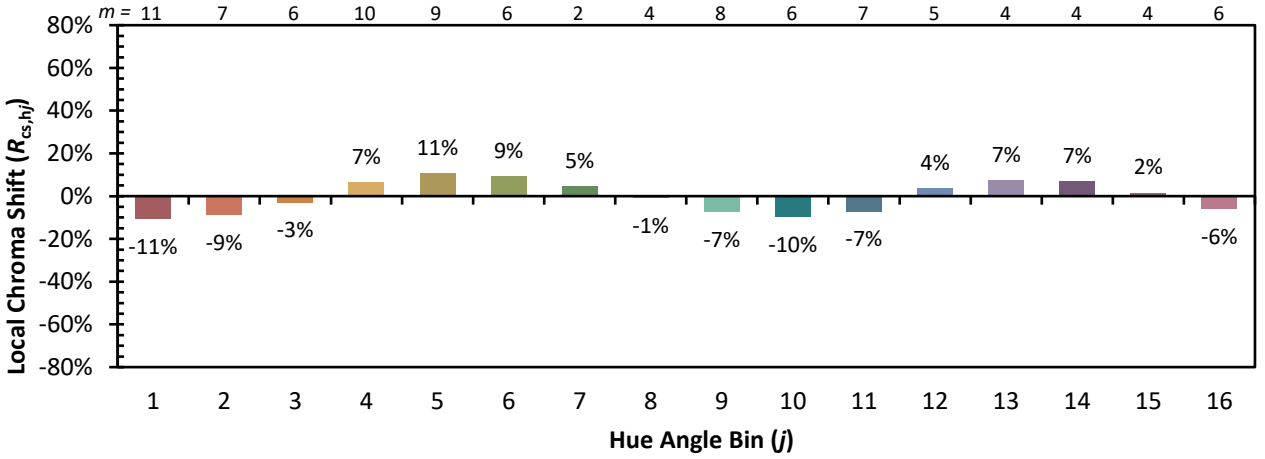
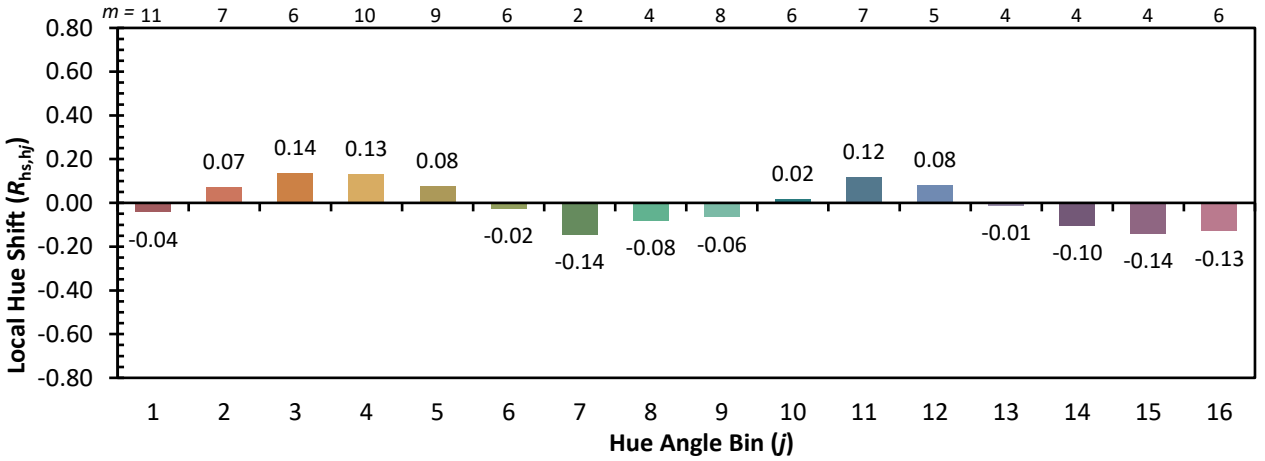
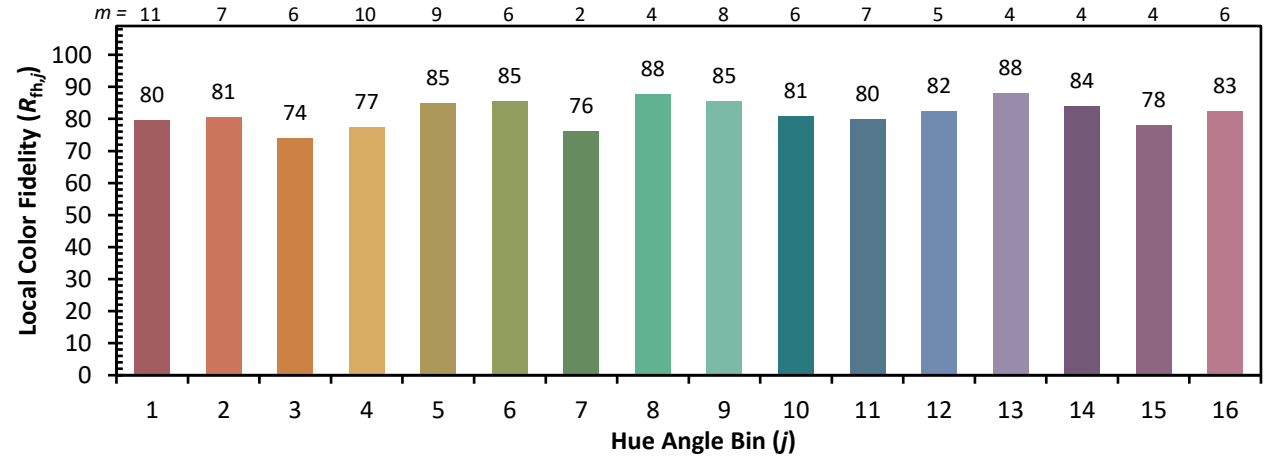
Color Rendition by Hue-Angle Bin







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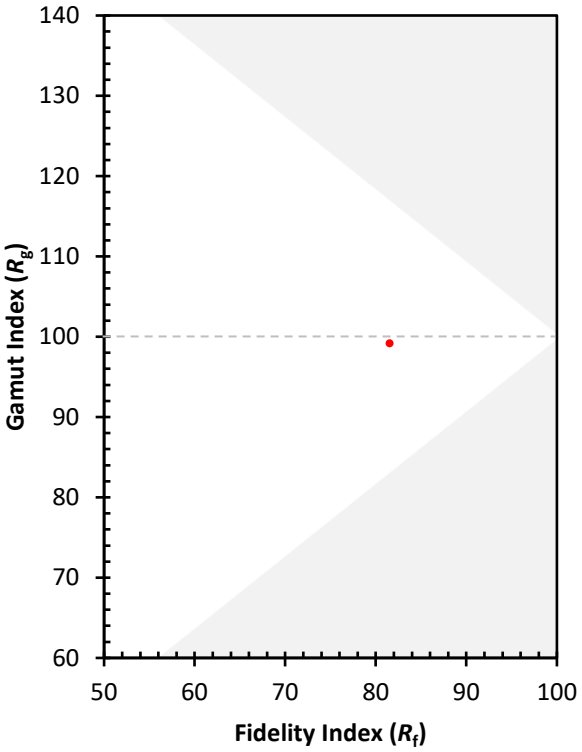
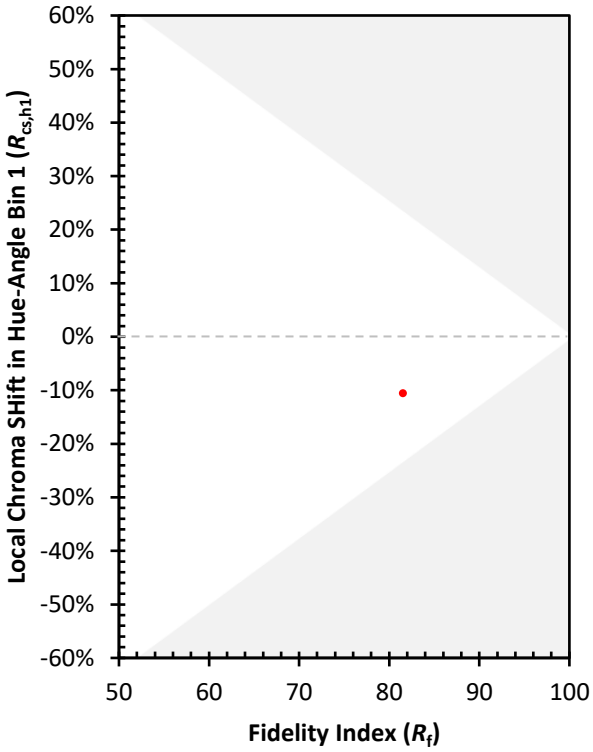
Measure Comparisons





(END OF REPORT)