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: P386958

Luminaire Tested: **GPC-SA2C-830-U-T3-HSS**

Issue Date: 3/3/2020

Report Generated By 670245982

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:	P386958
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GPC-SA2C-830-U-T3-HSS
Description:	GALLEON PEDESTRIAN LUMINAIRE
	(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	8549 lumens
Efficiency:	N/A
Efficacy:	77.0 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B1 - U0 - G2

Input Watts (W):	111
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:	28.75 FT

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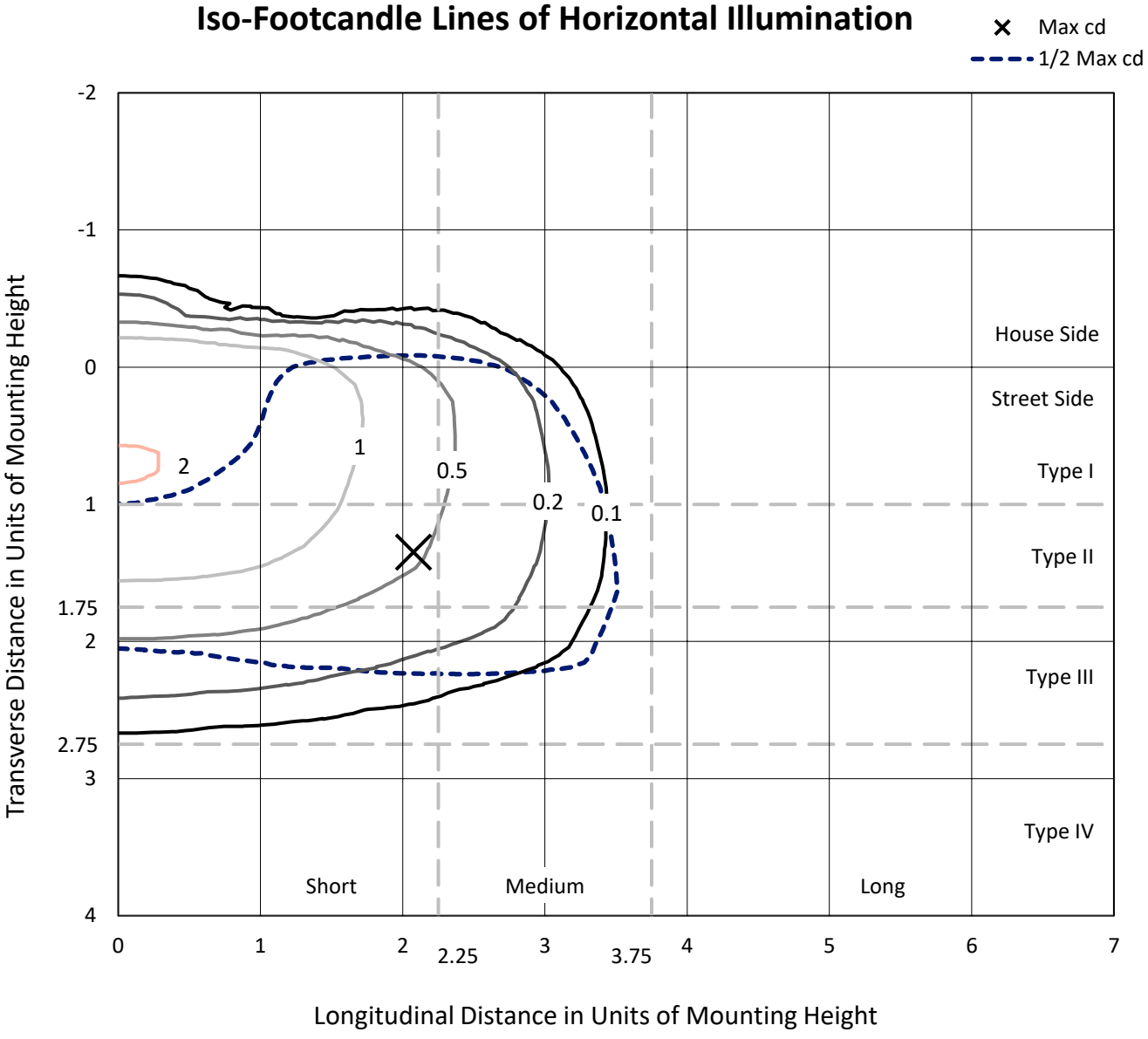
Scaled Data Report

REPORT NUMBER: P386958
CATALOG NUMBER: GPC-SA2C-830-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
Type III - Short - N/A

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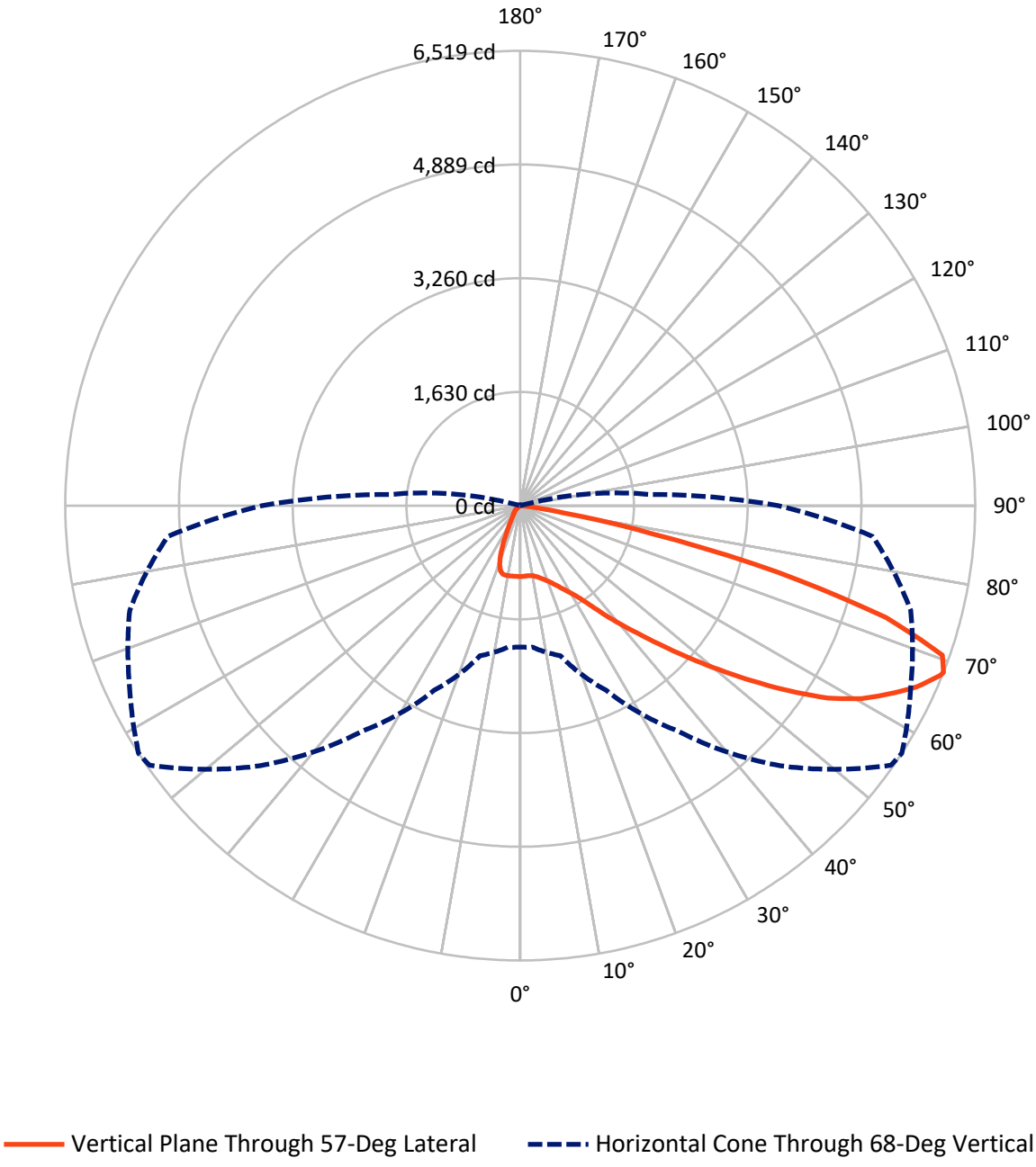
Luminous Intensity Polar Plot



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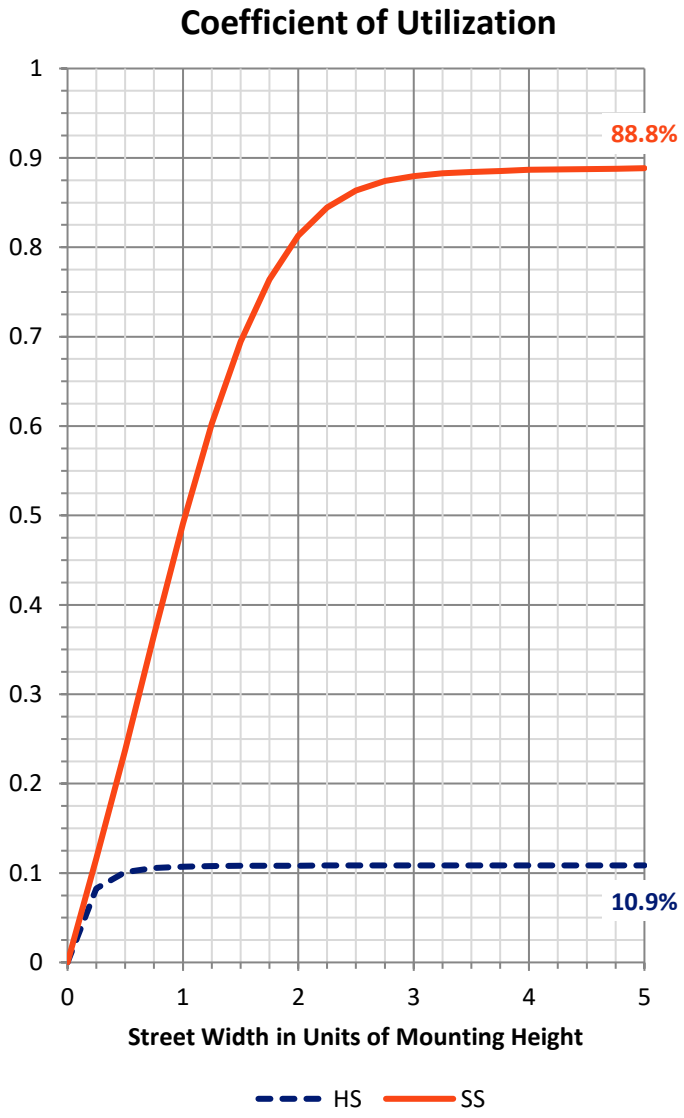
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	937.4	0.0	937.4
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	7611.6	0.0	7611.6
	% Fixture	89.0	0.0	89.0
Total	Lumens	8549.0	0.0	8549.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.1	1.1
10°-20°	263.4	3.1
20°-30°	454.5	5.3
30°-40°	784.4	9.2
40°-50°	1341.7	15.7
50°-60°	2146.6	25.1
60°-70°	2480.1	29.0
70°-80°	947.7	11.1
80°-90°	35.5	0.4
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°	8549.0	100.0
0°-180°	8549.0	100.0



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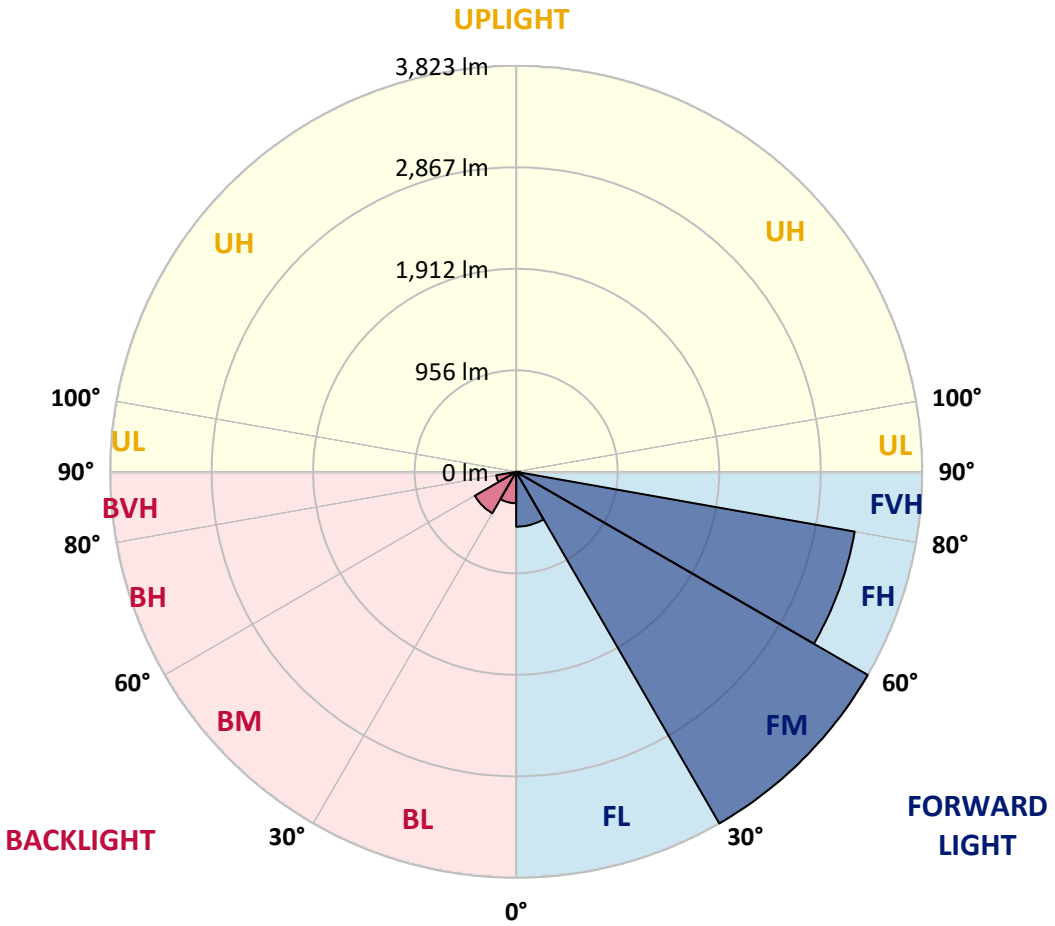
CATALOG NUMBER: GPC-SA2C-830-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	516.7	6.0			
FM	(30°-60°)	3823.0	44.7			
FH	(60°-80°)	3236.9	37.9			G2/5000
FVH	(80°-90°)	34.9	0.4			G1/100
BL	(0°-30°)	296.3	3.5	B1/500		
BM	(30°-60°)	449.6	5.3	B1/1000		
BH	(60°-80°)	190.9	2.2	B1/500		G1/500
BVH	(80°-90°)	0.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
Type III Short



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Scaled Data Report

REPORT NUMBER: P386958
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1015.8	1015.8	1015.8	1015.8	1015.8	1015.8	1015.8	*1015.8*	1015.8	1015.8	1015.8
2.5°	992.0	996.4	999.7	1001.7	1004.1	1009.4	1011.0	*1013.4*	1014.6	1014.6	1017.5
5°	952.8	957.6	964.5	970.2	981.5	996.0	1006.5	*1010.6*	1017.9	1024.3	1028.0
7.5°	916.4	922.1	930.1	943.5	962.9	986.3	1008.2	*1013.8*	1028.0	1041.7	1048.6
10°	893.0	897.4	907.9	926.9	952.4	985.1	1015.8	*1022.7*	1047.0	1070.0	1082.9
12.5°	884.9	888.9	899.8	921.3	952.8	991.2	1033.6	*1043.7*	1079.3	1112.9	1131.1
15°	896.6	897.4	909.1	929.3	960.5	1006.1	1063.1	*1075.3*	1120.1	1163.8	1186.4
17.5°	941.9	938.2	944.3	953.2	977.8	1026.0	1094.3	*1112.5*	1172.3	1223.6	1245.0
20°	1055.1	1055.1	1041.3	1017.1	1017.5	1056.7	1136.3	*1156.9*	1230.1	1289.5	1308.9
22.5°	1248.7	1245.0	1217.6	1158.1	1103.6	1109.6	1187.6	*1214.3*	1299.6	1363.1	1369.6
25°	1481.5	1477.1	1434.6	1351.0	1256.4	1195.3	1257.2	*1287.9*	1382.5	1438.7	1425.3
27.5°	1728.1	1724.5	1682.4	1578.5	1443.9	1332.0	1340.0	*1369.1*	1467.0	1522.4	1479.9
30°	1967.0	1968.2	1926.6	1819.9	1667.5	1506.2	1445.1	*1462.1*	1549.0	1605.2	1544.6
32.5°	2194.2	2195.8	2159.8	2040.6	1898.3	1708.7	1590.7	*1586.2*	1644.4	1699.8	1630.3
35°	2396.7	2400.8	2376.1	2283.5	2132.8	1934.3	1779.4	*1768.9*	1779.9	1842.5	1761.7
37.5°	2592.0	2594.4	2575.8	2497.8	2371.7	2182.1	2017.9	*2003.0*	1979.5	2027.7	1935.1
40°	2805.8	2799.7	2778.3	2707.6	2599.2	2455.7	2274.2	*2248.4*	2207.5	2250.4	2163.1
42.5°	3004.7	2997.8	3001.5	2921.4	2830.1	2737.1	2573.0	*2528.5*	2504.7	2554.0	2442.8
45°	3253.3	3249.7	3261.8	3192.3	3118.3	3050.8	2915.4	*2866.8*	2856.3	2914.1	2781.1
47.5°	3498.7	3507.6	3545.2	3515.6	3485.7	3426.3	3278.0	*3256.1*	3262.6	3332.5	3138.1
50°	3703.2	3713.7	3816.8	3850.8	3894.0	3859.2	3710.5	*3697.1*	3722.6	3785.7	3522.1
52.5°	3851.2	3872.6	4000.7	4157.2	4314.8	4338.3	4189.9	*4177.8*	4212.1	4221.8	3818.8
55°	3953.8	3972.8	4118.0	4404.2	4725.1	4826.2	4734.0	*4687.1*	4680.7	4584.9	4130.9
57.5°	3972.0	3970.0	4178.6	4563.8	5046.9	5307.6	5249.4	*5203.3*	5070.7	4920.4	4488.6
60°	3869.4	3881.1	4123.2	4619.2	5249.0	5671.8	5676.3	*5616.5*	5409.9	5246.6	4835.5
62.5°	3553.2	3600.9	3845.5	4474.1	5246.6	5818.6	5989.2	*5943.5*	5696.5	5513.8	5187.2
65°	3040.7	3057.6	3290.9	3976.9	4892.1	5757.1	6270.9	*6253.9*	5954.8	5773.3	5367.9
67.5°	2220.5	2183.7	2428.7	3131.6	4141.8	5399.0	6473.0	*6494.5*	6154.1	5826.7	5175.4
68°	*2026.4*	*2037.4*	*2228.2*	*2922.6*	*3945.3*	*5272.5*	*6486.4*	*6519.1*	*6173.9*	*5791.9*	*5070.3*
70°	1207.9	1228.9	1399.1	2012.3	3001.5	4556.6	6342.5	*6417.3*	6055.9	5433.3	4385.6
72.5°	308.4	333.5	494.4	900.6	1714.4	3210.4	5354.1	*5480.6*	5257.9	4407.8	2960.6
75°	126.9	133.4	176.7	296.7	638.7	1446.4	3529.0	*3799.8*	3645.0	2638.9	1338.0
77.5°	87.7	92.2	113.6	164.5	276.5	490.3	1730.1	*1925.8*	1735.0	900.6	291.9
80°	63.1	66.7	81.3	109.5	158.9	175.0	563.9	*652.0*	517.8	197.7	72.4
82.5°	37.6	40.4	60.6	78.0	96.6	83.7	140.3	*159.3*	150.0	98.2	32.3
85°	18.6	21.8	40.8	55.8	52.1	35.2	42.8	*47.7*	59.0	59.8	17.4
87.5°	1.2	2.4	23.8	33.6	14.6	8.1	12.5	*15.4*	21.0	29.5	7.3
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: P386958
CATALOG NUMBER: GPC-SA2C-830-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1015.8	1015.8	1015.8	1015.8	1015.8	1015.8	1015.8	1015.8	1015.8	1015.8	1015.8
2.5°	1018.7	1019.1	1016.3	1015.0	1015.8	1011.0	1009.0	1009.8	1009.8	1011.0	1009.0
5°	1028.8	1028.8	1023.9	1017.5	1013.8	1004.5	998.5	996.8	995.6	994.8	993.2
7.5°	1050.6	1048.2	1039.7	1025.5	1013.4	993.2	977.8	969.8	965.7	964.1	962.9
10°	1085.8	1081.3	1067.2	1040.9	1013.0	977.0	943.5	919.6	899.8	891.7	886.9
12.5°	1133.1	1126.6	1102.8	1059.1	1010.2	943.9	871.1	801.2	736.1	709.4	696.1
15°	1187.6	1178.3	1140.8	1074.5	993.6	869.1	711.1	588.6	498.4	464.5	449.9
17.5°	1243.0	1230.9	1173.9	1084.2	943.9	714.3	498.8	376.7	316.5	300.3	294.7
20°	1298.8	1281.0	1202.6	1076.9	831.5	515.0	329.0	275.3	257.9	253.1	251.4
22.5°	1351.8	1324.3	1228.5	1048.6	658.5	345.6	260.3	243.4	237.7	234.9	234.1
25°	1397.9	1359.4	1251.1	961.3	466.1	261.1	234.5	228.8	221.5	216.3	216.7
27.5°	1441.1	1394.6	1264.9	817.4	310.9	223.1	217.1	209.4	196.1	188.4	188.4
30°	1493.3	1441.5	1275.0	629.0	228.8	197.3	192.4	180.7	162.5	152.4	152.4
32.5°	1571.7	1512.7	1268.5	441.4	189.6	173.4	162.1	145.9	126.1	116.4	116.0
35°	1691.7	1622.6	1222.4	289.4	167.4	150.8	132.6	112.8	95.4	87.3	86.9
37.5°	1853.4	1769.7	1118.9	207.0	150.0	129.8	107.9	86.1	73.2	67.9	67.5
40°	2063.2	1940.7	971.0	167.8	133.8	109.5	83.3	66.7	57.8	53.8	54.2
42.5°	2315.1	2123.9	793.5	144.7	118.0	90.1	65.1	52.6	46.9	44.1	43.3
45°	2594.8	2304.6	607.6	129.0	102.3	72.8	50.9	41.6	37.2	35.6	35.6
47.5°	2902.4	2480.4	444.7	115.2	85.3	56.2	40.8	34.0	30.3	29.1	28.7
50°	3181.7	2602.5	320.6	100.7	69.9	44.5	33.1	28.3	25.9	24.3	24.3
52.5°	3414.6	2640.9	236.1	84.9	56.6	35.6	27.5	24.3	21.8	20.6	20.6
55°	3619.5	2625.1	175.4	69.9	45.7	29.1	23.4	20.6	18.6	17.4	17.4
57.5°	3816.0	2574.2	131.0	57.0	36.8	23.4	19.8	17.4	15.4	14.6	14.6
60°	3976.5	2489.3	97.4	46.1	29.5	19.0	16.6	14.1	12.5	11.3	11.3
62.5°	4106.6	2395.5	71.5	38.0	23.4	15.0	12.9	11.7	9.3	8.1	8.1
65°	4107.4	2239.9	53.8	31.5	18.2	11.7	9.7	9.3	6.1	4.9	4.4
67.5°	3810.3	1931.0	41.2	27.1	14.1	8.9	7.3	7.7	3.2	2.0	1.6
68°	*3702.4*	*1852.6*	*38.8*	*26.7*	*13.3*	*8.5*	*6.9*	*7.7*	*2.8*	*1.6*	*1.2*
70°	3121.5	1473.8	31.1	25.9	11.7	6.5	5.7	7.7	2.4	1.2	0.8
72.5°	1996.5	855.4	23.0	20.6	8.9	4.9	3.6	6.9	2.4	0.8	0.4
75°	849.7	265.2	15.8	14.6	5.3	3.6	2.4	4.4	1.6	0.4	0.0
77.5°	179.1	59.8	9.3	8.9	3.6	2.4	1.6	1.2	0.4	0.0	0.0
80°	46.1	17.4	4.9	4.4	2.0	1.2	0.8	0.0	0.0	0.0	0.0
82.5°	14.6	6.9	2.8	2.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.3	4.0	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.0	1.2	0.4	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

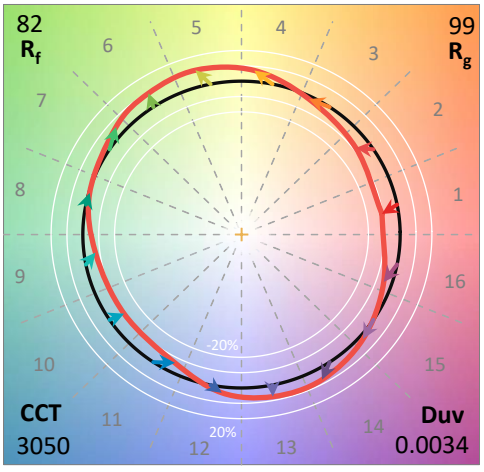
Test Information

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

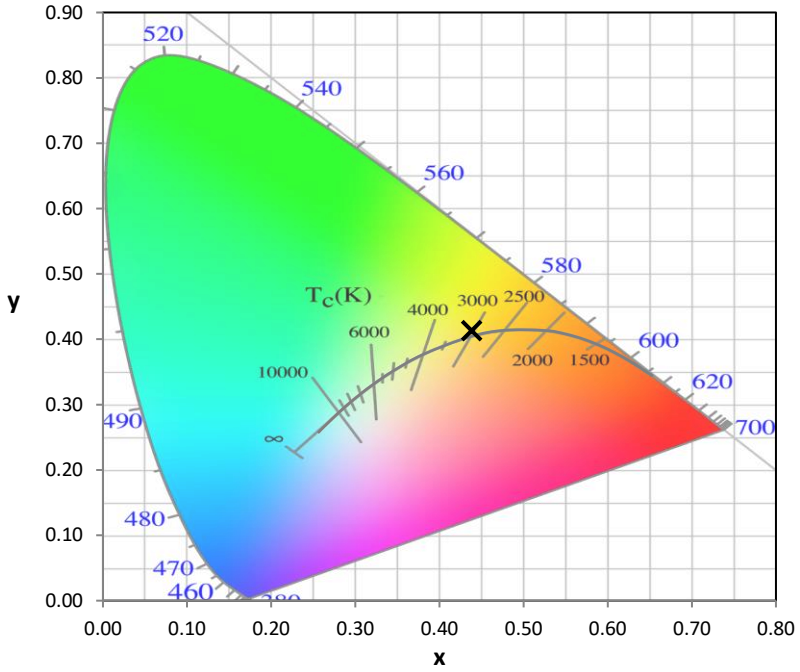
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

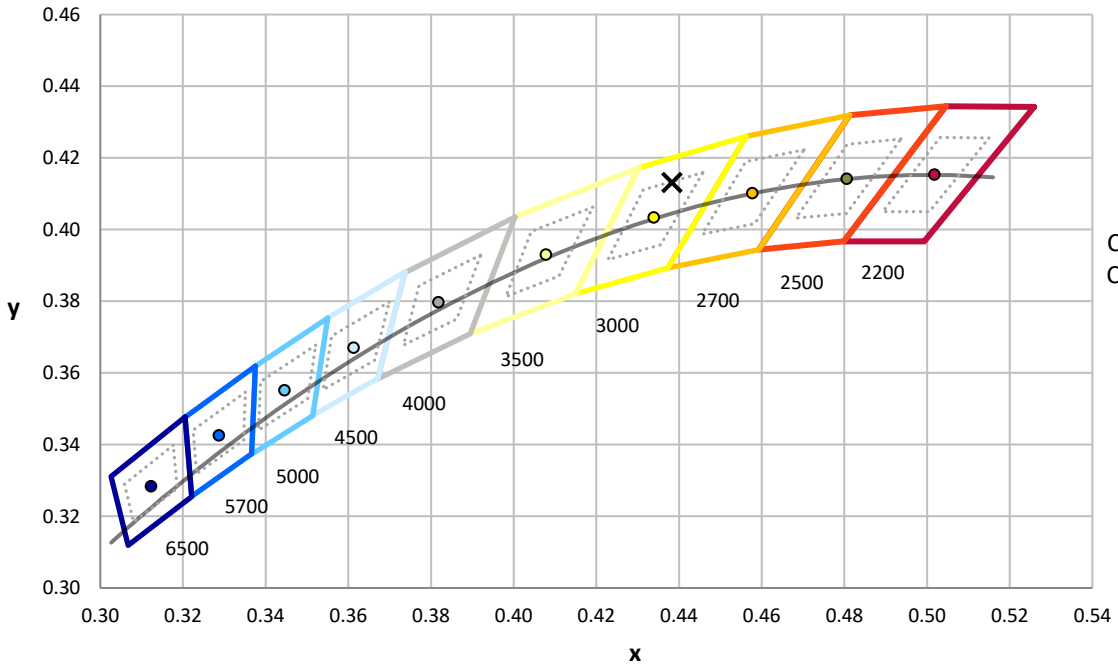
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

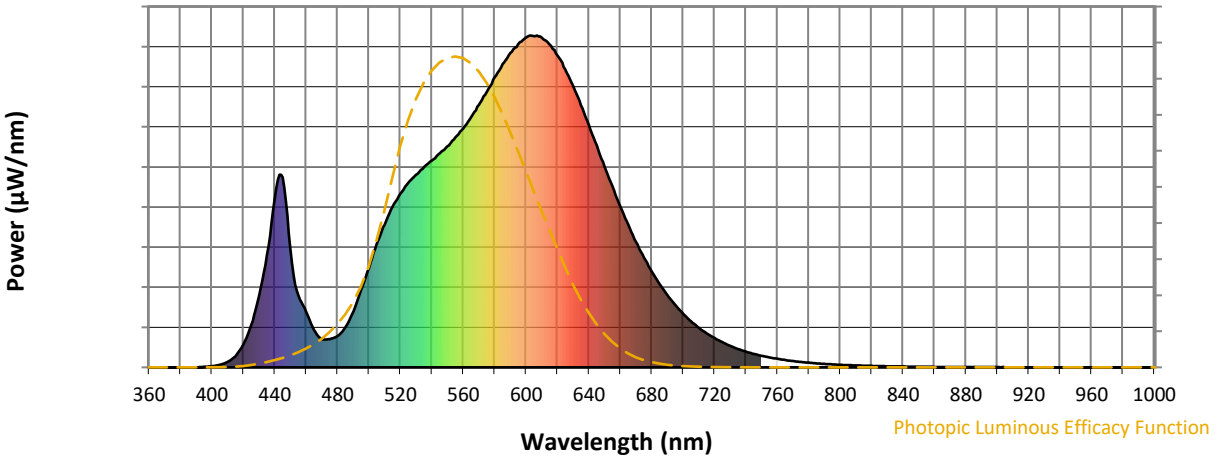


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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			

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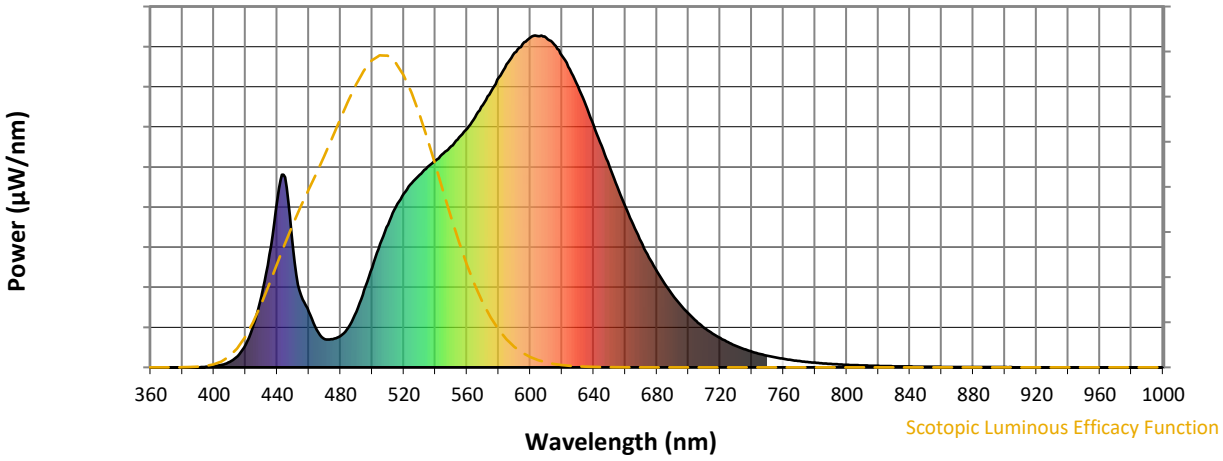
Scotopic Flux vs. Wavelength



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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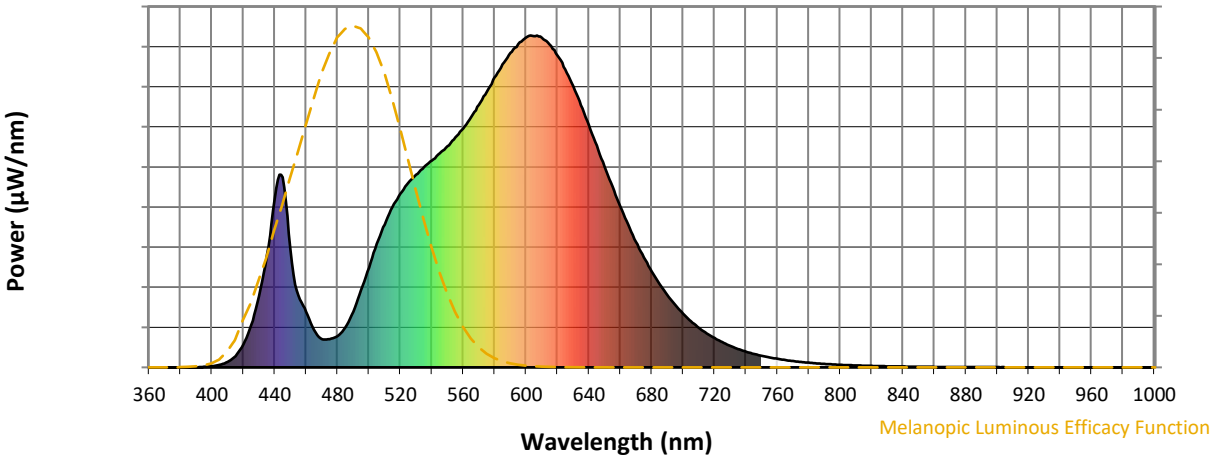
Melanopic Flux vs. Wavelength



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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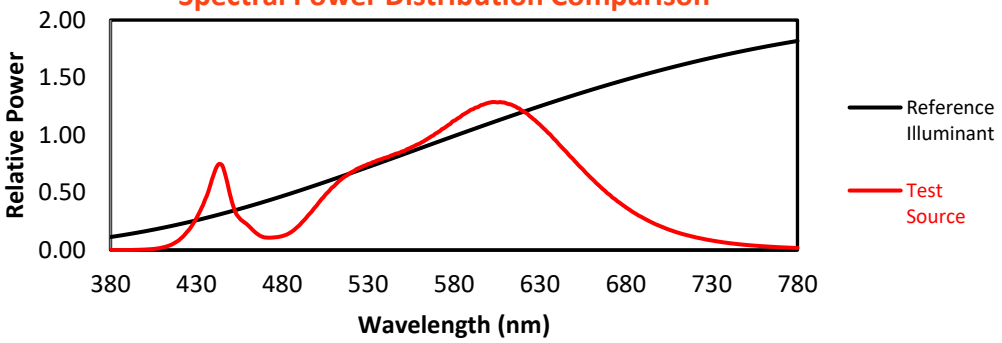
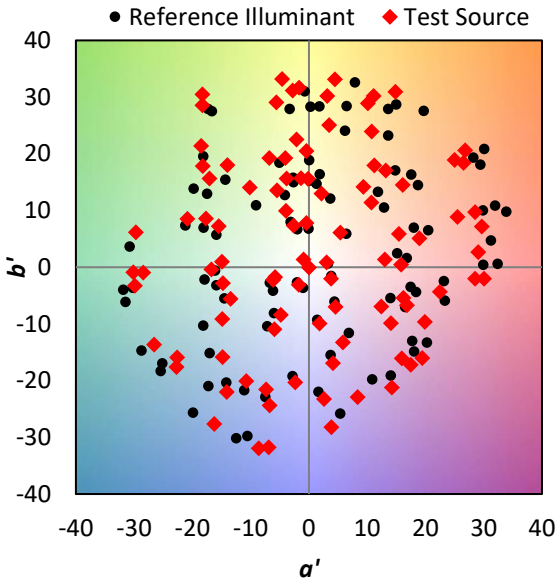
Summary

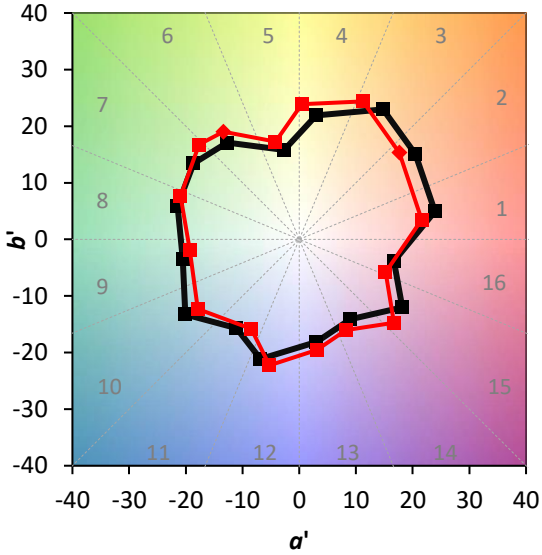
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

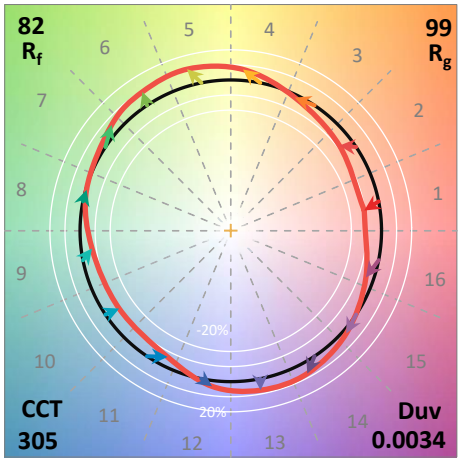
Spectral Power Distribution Comparison

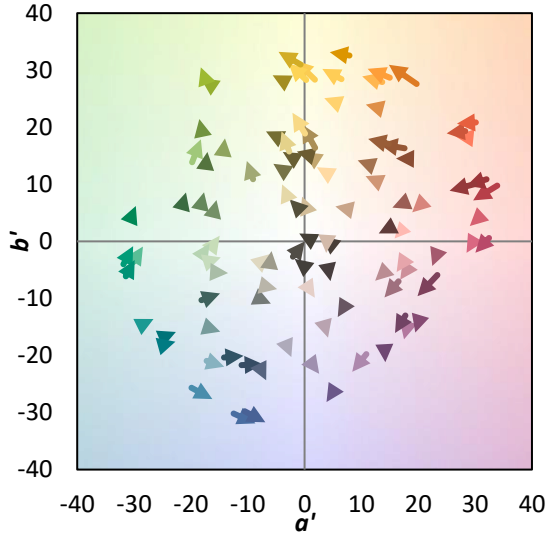


Color Vector Graphics









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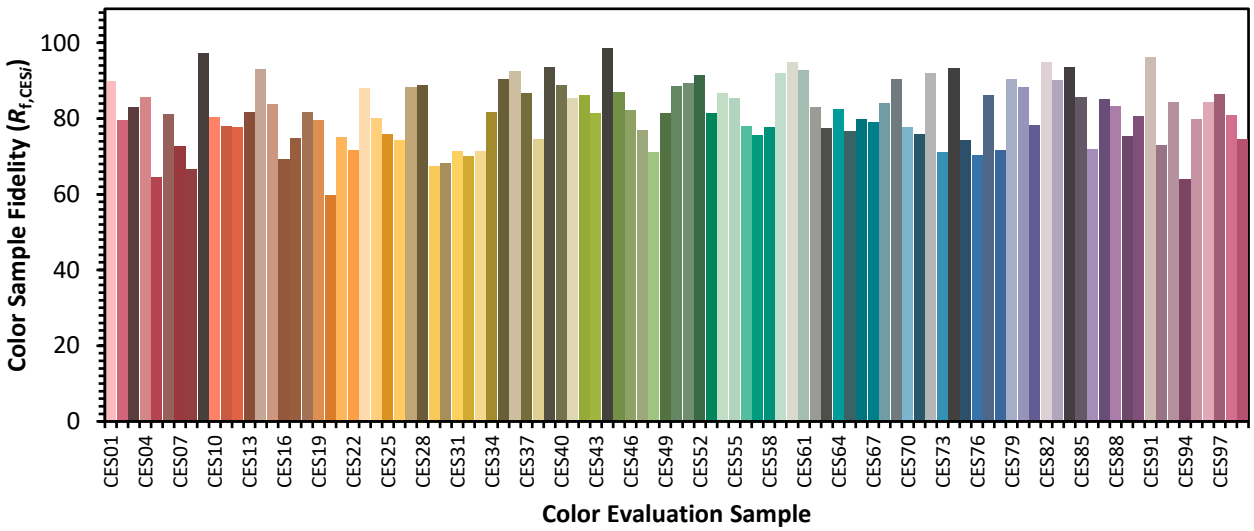
Individual Sample Fidelity Index ($R_{f,i}$)

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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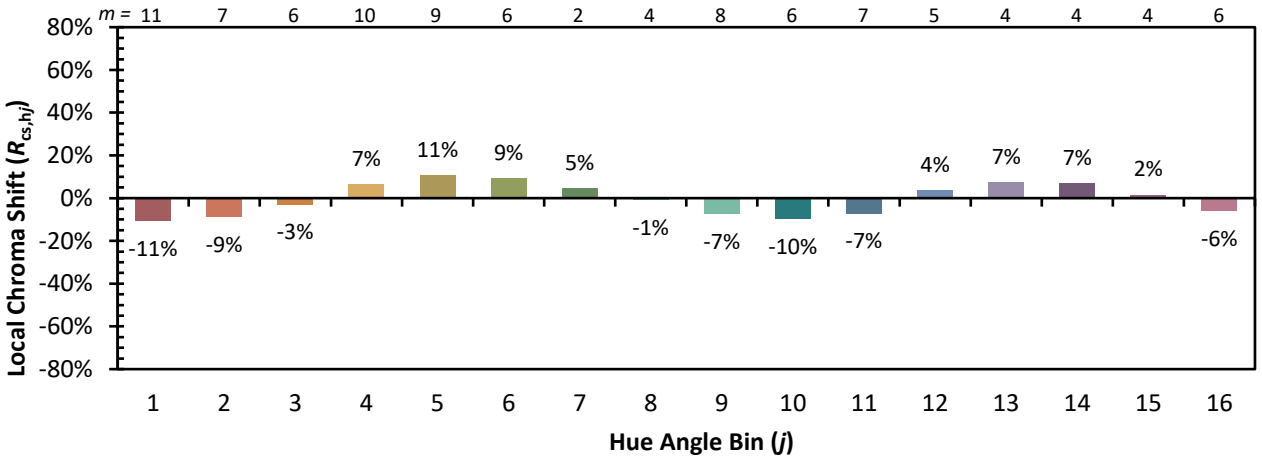
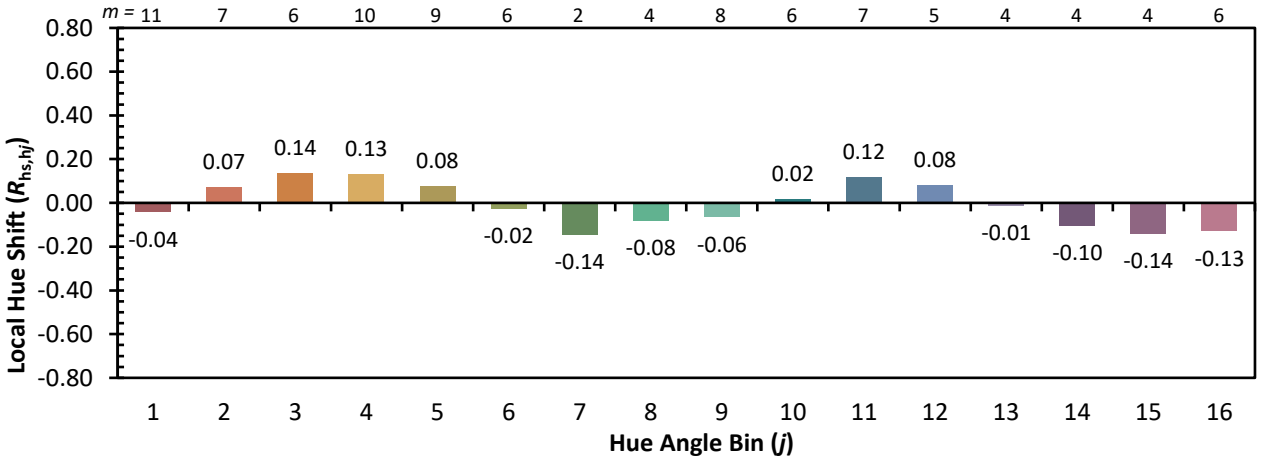
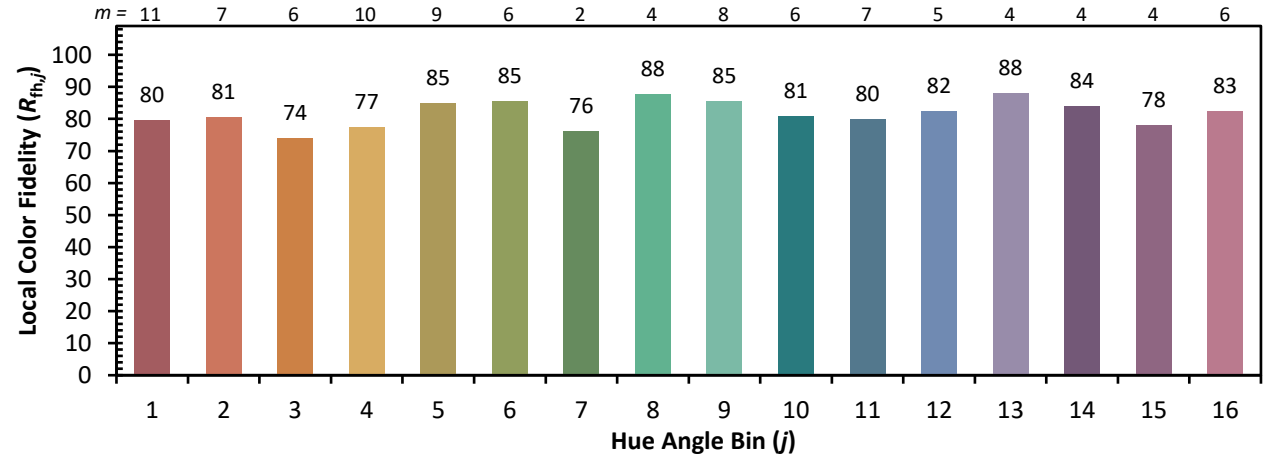
Color Rendition by Hue-Angle Bin







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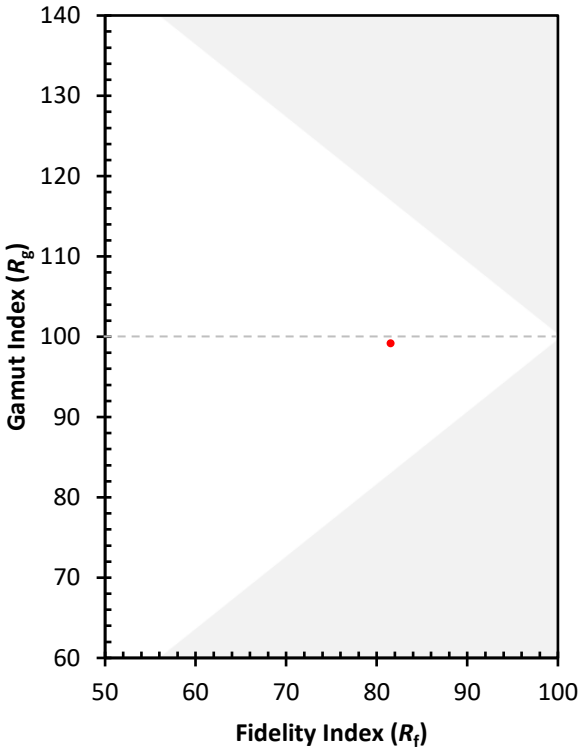
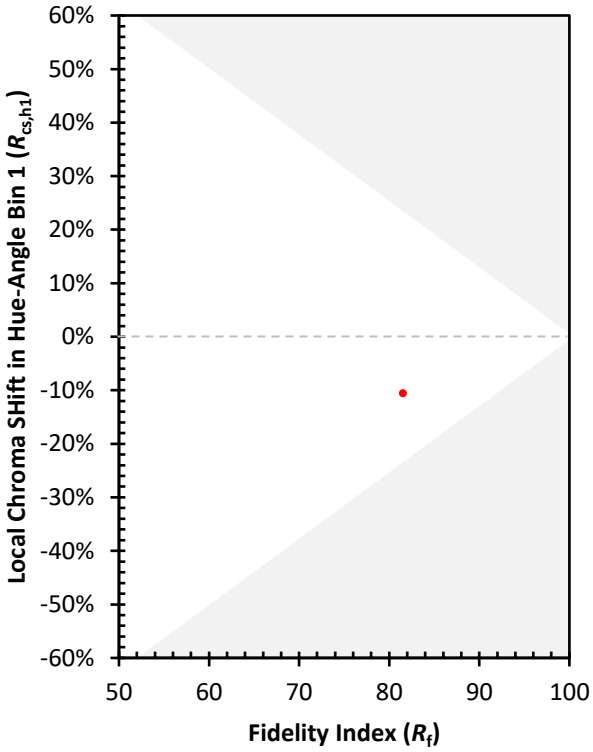
Measure Comparisons





(END OF REPORT)