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: P323056

Luminaire Tested: **GLEON-SA2D-830-U-T4W-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:	P323056
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA2D-830-U-T4W-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	9143 lumens
Efficiency:	N/A
Efficacy:	70.9 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U0 - G2

Input Watts (W):	129
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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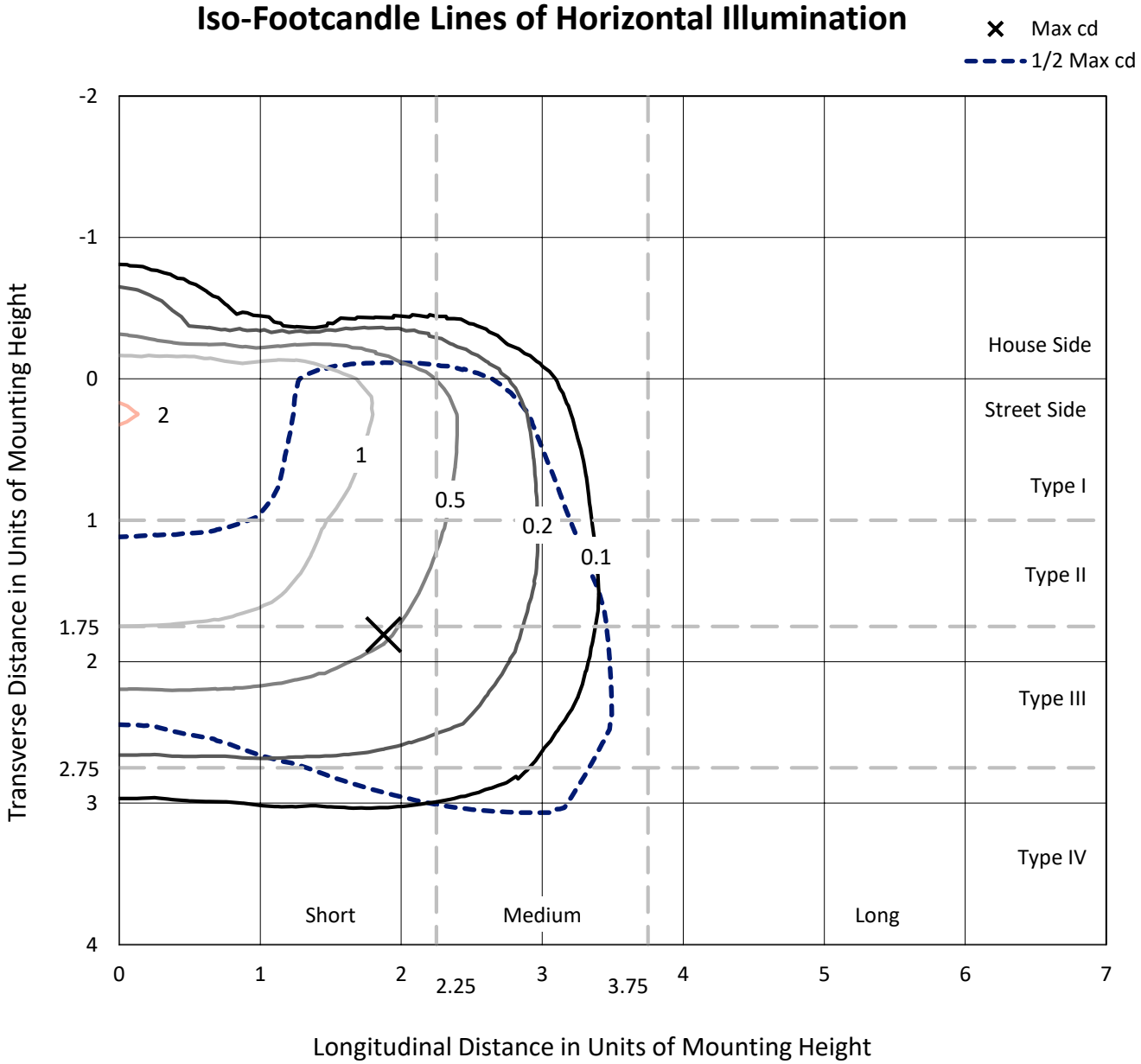
Scaled Data Report

REPORT NUMBER: P323056
CATALOG NUMBER: GLEON-SA2D-830-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination



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

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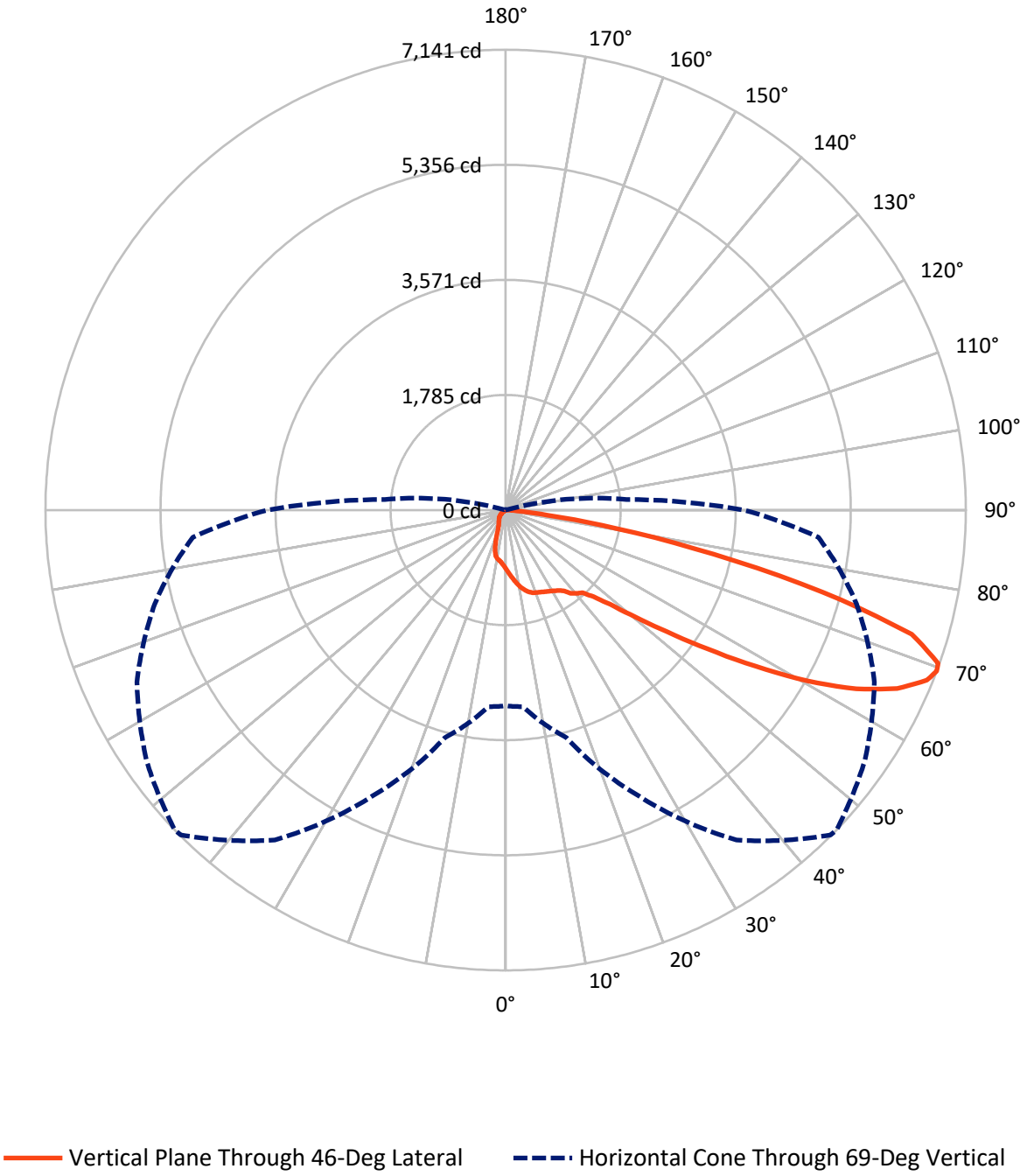
Luminous Intensity Polar Plot



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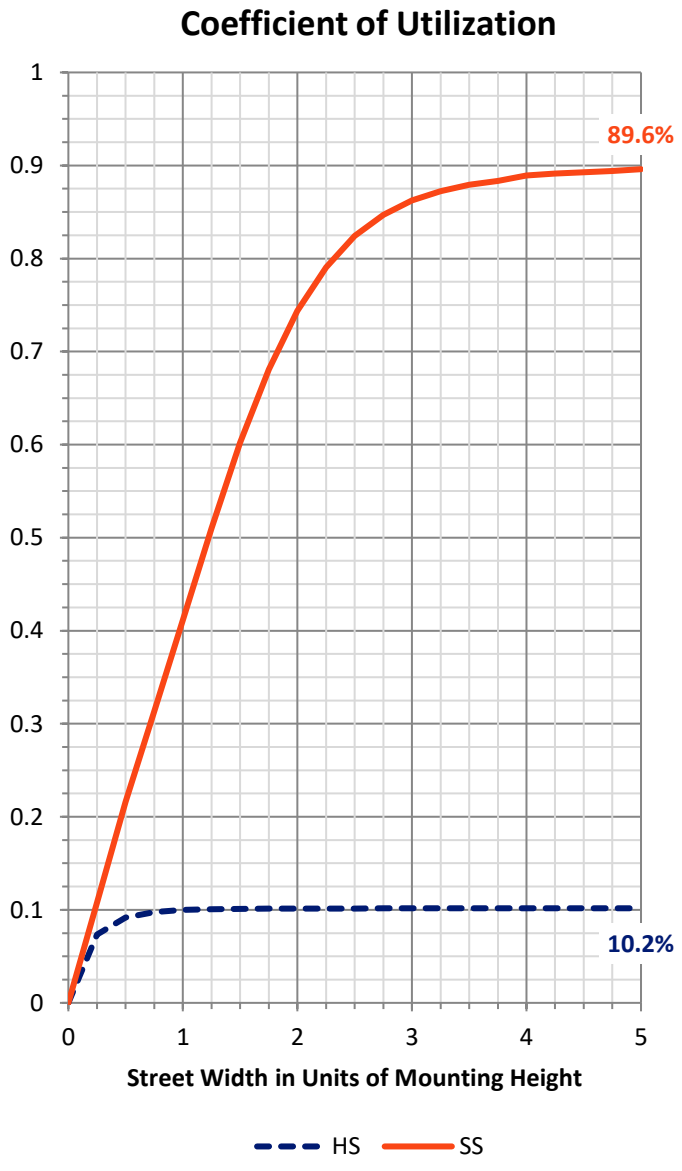
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	938.3	0.0	938.3
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	8204.7	0.0	8204.7
	% Fixture	89.7	0.0	89.7
Total	Lumens	9143.0	0.0	9143.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.2	1.0
10°-20°	276.6	3.0
20°-30°	435.0	4.8
30°-40°	623.9	6.8
40°-50°	1078.3	11.8
50°-60°	2130.2	23.3
60°-70°	2977.1	32.6
70°-80°	1438.3	15.7
80°-90°	92.4	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°	9143.0	100.0
0°-180°	9143.0	100.0



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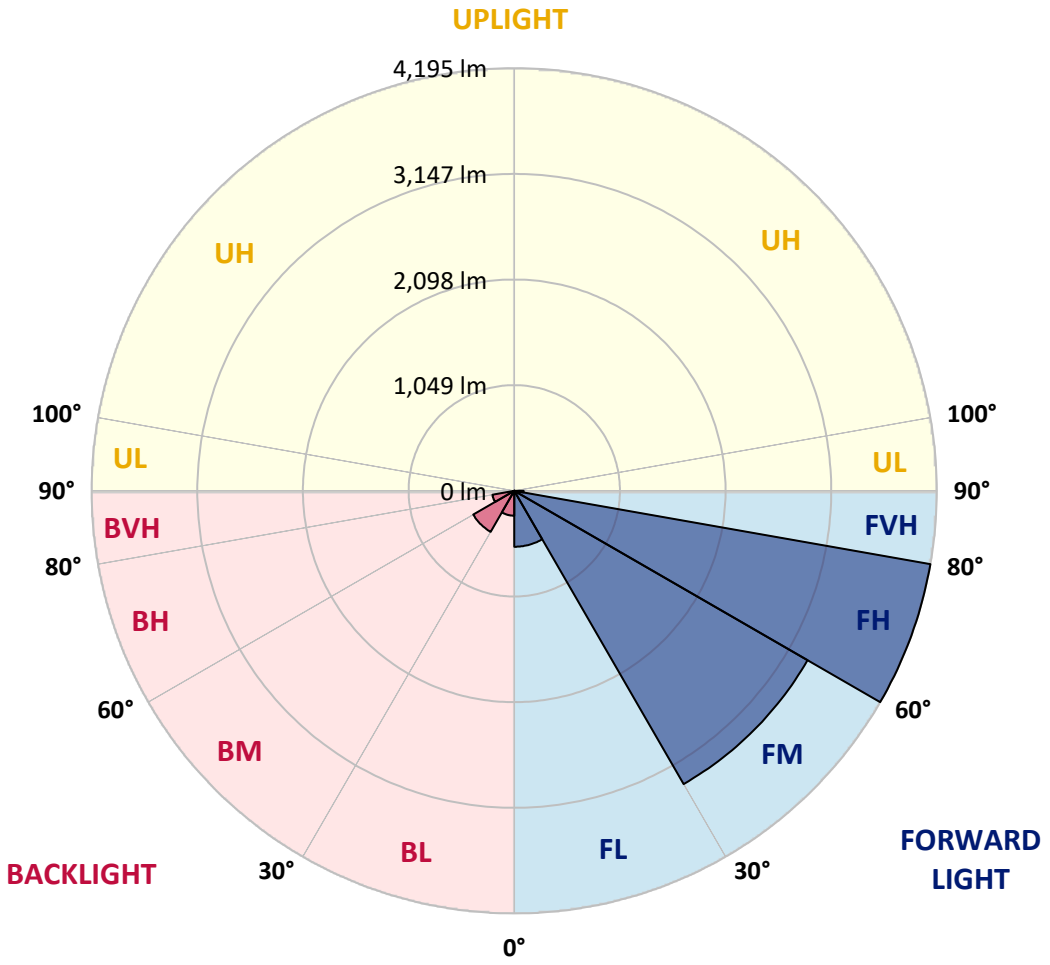
CATALOG NUMBER: GLEON-SA2D-830-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	555.5	6.1			
FM	(30°-60°)	3362.1	36.8			
FH	(60°-80°)	4195.4	45.9			G2/5000
FVH	(80°-90°)	91.7	1.0			G1/100
BL	(0°-30°)	247.3	2.7	B1/500		
BM	(30°-60°)	470.2	5.1	B1/1000		
BH	(60°-80°)	220.0	2.4	B1/500		G1/500
BVH	(80°-90°)	0.8	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 IV Short



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REPORT NUMBER: P323056
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	916.1	916.1	916.1	916.1	916.1	916.1	*916.1*	916.1	916.1	916.1	916.1
2.5°	1017.7	1016.4	1010.4	1007.8	993.3	984.7	*981.3*	970.5	955.1	939.7	922.5
5°	1133.4	1133.0	1121.9	1111.1	1083.7	1058.0	*1053.3*	1028.4	993.7	961.1	928.5
7.5°	1251.8	1246.2	1235.0	1214.5	1174.6	1133.4	*1129.6*	1094.4	1045.1	998.0	951.2
10°	1352.1	1348.6	1334.1	1302.8	1256.0	1209.3	*1204.6*	1161.3	1105.6	1047.7	988.1
12.5°	1430.1	1427.5	1408.2	1369.2	1319.5	1271.0	*1264.6*	1226.0	1166.4	1101.7	1031.4
15°	1477.7	1476.4	1452.8	1411.2	1362.4	1320.3	*1314.8*	1280.9	1225.6	1157.9	1078.6
17.5°	1488.8	1489.2	1464.8	1422.8	1382.5	1352.5	*1348.2*	1322.5	1276.2	1208.9	1125.7
20°	1464.0	1469.1	1447.2	1410.8	1385.9	1370.1	*1366.6*	1351.2	1312.2	1248.8	1163.4
22.5°	1428.8	1431.4	1416.4	1391.9	1381.6	1384.6	*1382.9*	1374.4	1341.3	1283.0	1200.7
25°	1407.4	1407.4	1398.4	1377.8	1384.6	1403.1	*1403.5*	1401.8	1375.6	1325.1	1246.2
27.5°	1406.5	1403.9	1393.6	1378.2	1397.1	1425.4	*1427.1*	1438.7	1422.4	1376.1	1302.8
30°	1440.8	1437.8	1415.9	1395.8	1419.8	1450.2	*1454.5*	1479.8	1471.7	1431.4	1365.8
32.5°	1521.0	1510.2	1461.8	1428.8	1446.8	1483.2	*1488.8*	1529.1	1542.0	1499.5	1426.7
35°	1630.7	1596.8	1527.0	1491.4	1493.1	1531.3	*1536.4*	1595.6	1633.7	1562.1	1473.8
37.5°	1782.0	1765.3	1651.7	1556.5	1564.3	1622.1	*1637.1*	1701.4	1690.7	1596.4	1527.4
40°	2113.8	2087.7	1966.8	1739.2	1632.4	1695.9	*1700.6*	1734.9	1735.7	1674.0	1638.9
42.5°	2565.7	2554.9	2427.6	2070.5	1766.6	1745.2	*1753.7*	1811.6	1876.3	1837.8	1836.0
45°	3065.9	3060.4	2925.3	2510.4	2038.0	1906.8	*1917.5*	1995.1	2119.0	2127.6	2182.0
47.5°	3468.5	3465.9	3388.3	3001.2	2453.3	2180.7	*2184.1*	2266.4	2484.2	2591.8	2678.8
50°	3835.4	3847.9	3786.6	3532.3	3019.2	2609.8	*2601.7*	2656.5	3006.4	3182.5	3290.6
52.5°	4345.6	4363.1	4191.2	4027.9	3612.9	3142.2	*3135.8*	3193.3	3633.9	3766.0	3785.3
55°	4796.1	4766.1	4630.2	4583.0	4337.0	3799.8	*3798.1*	3848.7	4241.0	4297.1	4332.7
57.5°	4995.0	4983.4	5049.0	5157.1	5095.3	4577.0	*4573.2*	4534.6	4784.1	4790.1	4899.4
60°	5120.6	5134.8	5335.8	5668.9	5822.8	5413.4	*5388.5*	5153.2	5302.8	5289.5	5406.5
62.5°	5026.3	5054.2	5416.0	5971.1	6367.2	6143.4	*6108.3*	5719.9	5746.1	5700.2	5809.1
65°	4525.6	4568.9	5161.8	5914.1	6637.3	6714.0	*6678.4*	6220.2	6098.0	6022.6	5962.1
67.5°	3674.7	3700.4	4319.4	5418.1	6515.5	7054.4	*7047.1*	6658.7	6363.8	5968.1	5499.1
69°	*3036.8*	*3062.1*	*3657.9*	*4896.0*	*6247.6*	*7127.3*	*7141.4*	*6799.3*	*6313.2*	*5637.2*	*4872.4*
70°	2572.1	2599.1	3154.2	4448.4	5936.8	7093.4	*7118.7*	6786.0	6168.3	5253.9	4322.4
72.5°	1349.1	1372.2	1941.9	3064.7	4839.8	6513.4	*6590.1*	6212.5	5228.6	3815.7	2555.8
75°	424.0	437.3	758.3	1602.0	3313.7	5064.5	*5082.0*	4873.3	3712.8	2098.8	1064.4
77.5°	161.6	157.8	252.5	590.3	1675.3	3189.0	*3296.6*	3045.4	1948.4	742.0	245.6
80°	87.0	87.5	131.2	244.3	716.8	1638.9	*1729.7*	1476.0	692.3	231.5	56.6
82.5°	37.7	39.4	73.7	129.5	329.2	604.4	*649.9*	541.0	264.5	155.6	21.0
85°	8.1	9.0	35.6	70.3	134.2	169.8	*177.9*	175.3	168.5	120.9	8.1
87.5°	0.0	0.0	15.9	25.3	33.9	38.6	*33.9*	44.2	93.0	81.4	4.3
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: P323056
CATALOG NUMBER: GLEON-SA2D-830-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	916.1	916.1	916.1	916.1	916.1	916.1	916.1	916.1	916.1	916.1	916.1
2.5°	917.0	909.2	895.9	881.4	871.1	860.4	851.8	847.9	843.6	840.6	844.5
5°	915.2	900.2	874.5	849.6	831.6	817.1	805.1	800.4	795.6	792.2	791.8
7.5°	930.2	909.2	869.8	833.4	805.5	785.8	769.5	762.6	757.1	754.5	752.3
10°	959.0	932.0	879.2	831.6	795.6	762.2	727.0	700.0	682.5	674.3	671.3
12.5°	996.3	962.4	897.2	840.6	788.3	724.0	649.5	585.2	543.6	529.9	521.7
15°	1040.0	998.0	920.8	852.2	761.8	644.3	517.8	433.8	395.2	387.5	379.0
17.5°	1082.0	1035.7	949.1	854.4	703.5	514.8	379.4	322.4	307.4	312.5	313.8
20°	1118.9	1073.0	977.0	835.5	597.6	386.2	293.6	279.5	285.1	294.9	296.6
22.5°	1156.2	1109.0	1002.7	785.8	462.1	293.2	264.5	267.9	273.5	283.4	285.1
25°	1201.6	1152.7	1026.7	694.5	346.8	249.5	251.2	256.4	261.9	270.9	271.8
27.5°	1253.9	1208.0	1042.6	575.7	257.2	229.3	234.9	242.6	248.2	256.8	258.5
30°	1323.3	1280.9	1047.7	452.7	215.6	211.3	213.9	223.3	231.5	239.2	240.5
32.5°	1388.5	1352.9	1030.6	341.7	199.8	194.6	194.6	200.2	209.6	216.9	218.6
35°	1448.5	1425.4	975.7	249.9	187.8	179.2	174.9	174.9	180.9	186.9	188.6
37.5°	1527.8	1527.0	886.9	199.3	176.2	166.3	157.3	150.5	148.3	149.6	150.5
40°	1663.7	1665.0	771.2	178.8	166.3	153.0	139.3	126.9	115.3	111.5	111.0
42.5°	1875.9	1856.6	649.9	168.9	157.8	139.3	118.7	102.0	84.0	78.4	78.0
45°	2212.9	2098.4	521.3	159.9	148.8	123.9	98.2	75.4	60.9	56.6	56.6
47.5°	2703.7	2416.1	403.8	150.0	136.7	106.3	74.2	54.4	44.6	42.4	42.9
50°	3211.3	2727.3	309.5	137.6	122.2	87.9	54.9	39.4	33.9	33.9	34.3
52.5°	3661.4	2955.3	241.3	124.3	104.2	69.0	41.6	30.9	28.3	27.9	28.3
55°	4082.8	3102.4	184.8	108.9	82.7	51.4	31.7	25.3	23.6	22.7	22.3
57.5°	4489.2	3175.3	138.5	87.9	60.0	37.3	25.3	21.4	19.7	18.4	18.0
60°	4759.7	3116.1	95.2	64.7	41.6	27.0	21.0	18.4	16.3	15.0	14.6
62.5°	4912.3	2954.5	61.3	46.7	29.6	20.1	16.7	15.4	12.4	11.1	11.1
65°	4850.5	2687.8	42.9	33.4	21.4	15.0	12.4	12.4	9.0	7.3	6.9
67.5°	4298.4	2270.7	32.6	24.9	15.4	11.1	9.4	10.7	5.6	3.4	3.4
69°	*3698.2*	*1881.9*	*27.9*	*20.6*	*12.9*	*9.0*	*8.1*	*9.9*	*3.9*	*2.6*	*2.1*
70°	3214.3	1623.4	25.3	18.0	10.7	7.7	7.3	9.4	3.9	2.1	1.7
72.5°	1923.1	905.4	19.3	12.9	6.9	6.0	6.0	10.7	3.9	2.1	1.7
75°	777.2	318.9	14.1	9.0	5.1	5.1	7.3	13.7	3.4	1.7	1.3
77.5°	176.2	69.9	8.1	5.6	3.4	5.1	8.6	10.7	2.1	0.9	0.0
80°	42.9	17.1	5.1	3.4	2.1	3.9	6.4	6.0	0.4	0.0	0.0
82.5°	14.1	6.0	2.1	1.7	0.4	1.3	3.0	1.7	0.0	0.0	0.0
85°	6.0	3.4	0.9	0.4	0.0	0.0	0.4	0.0	0.0	0.0	0.0
87.5°	3.9	1.3	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

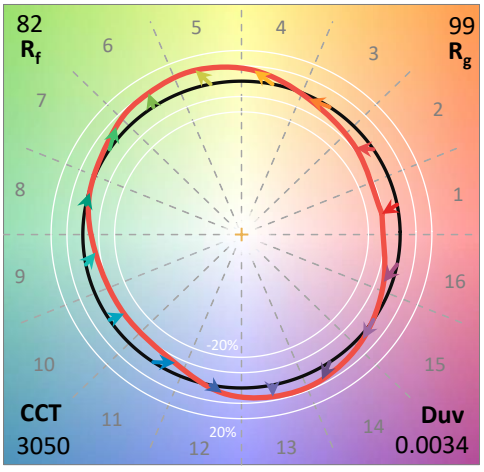
Test Information

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

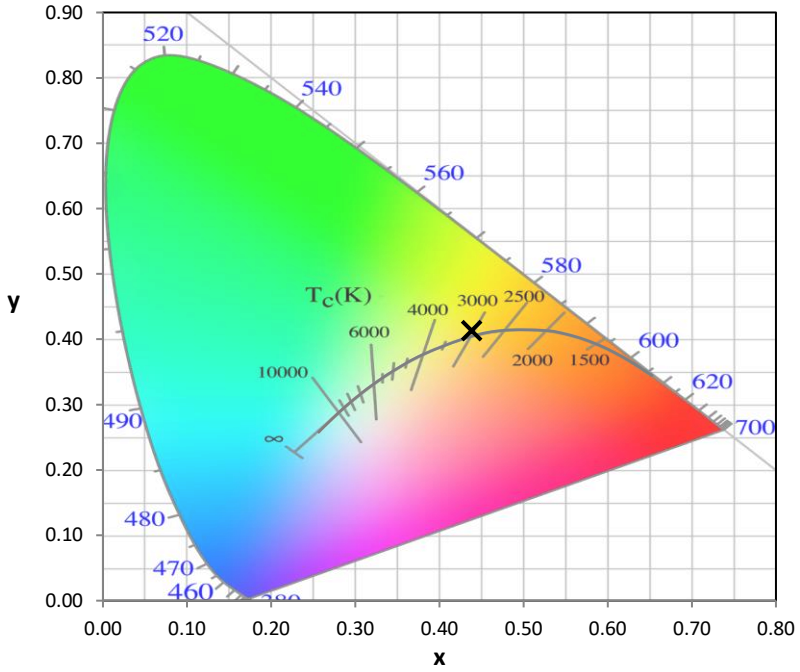
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

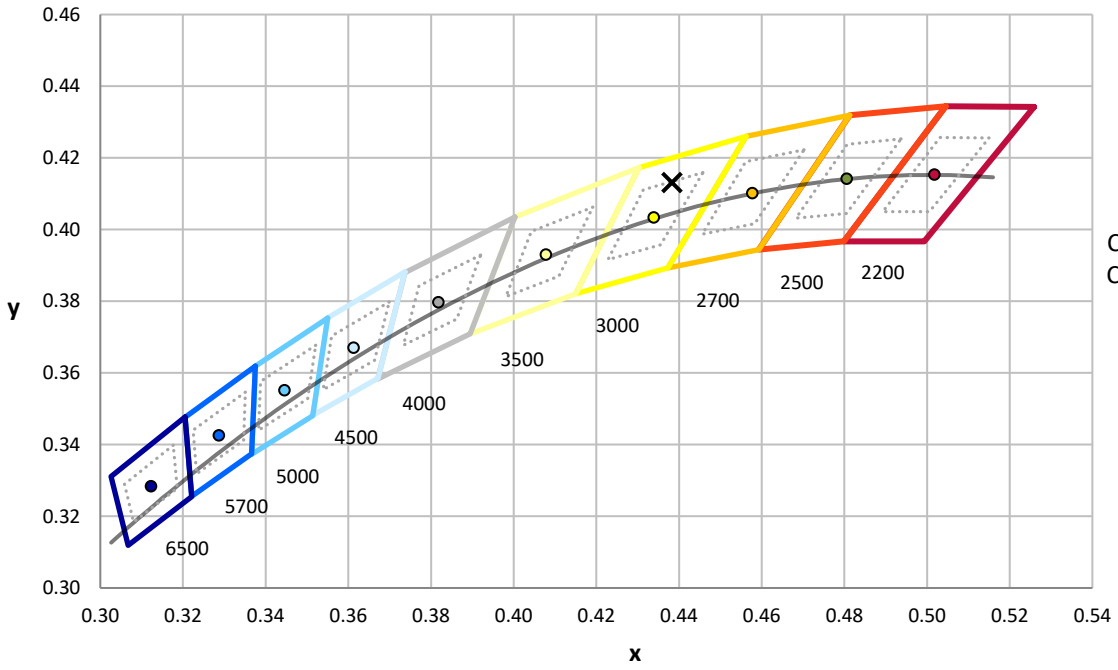
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

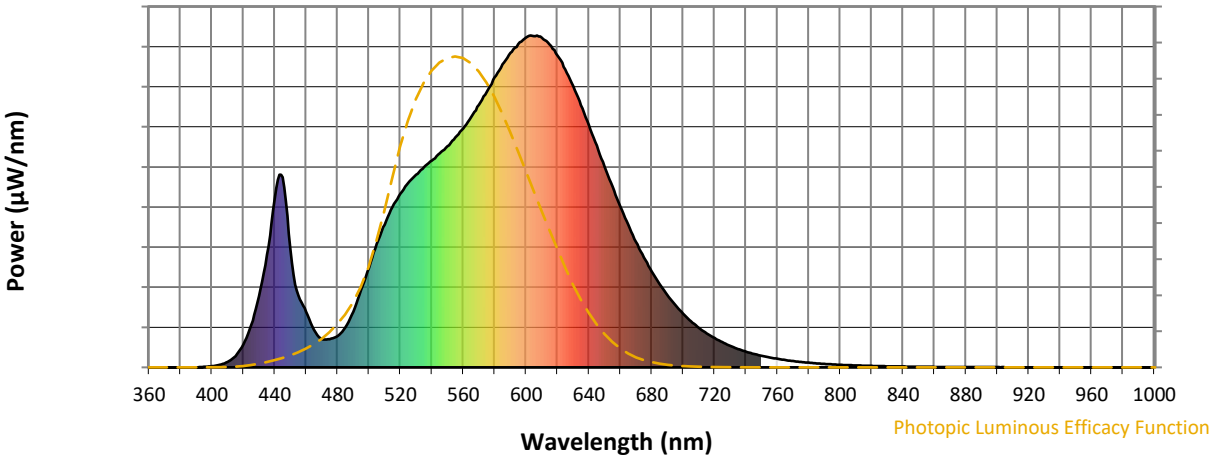


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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			

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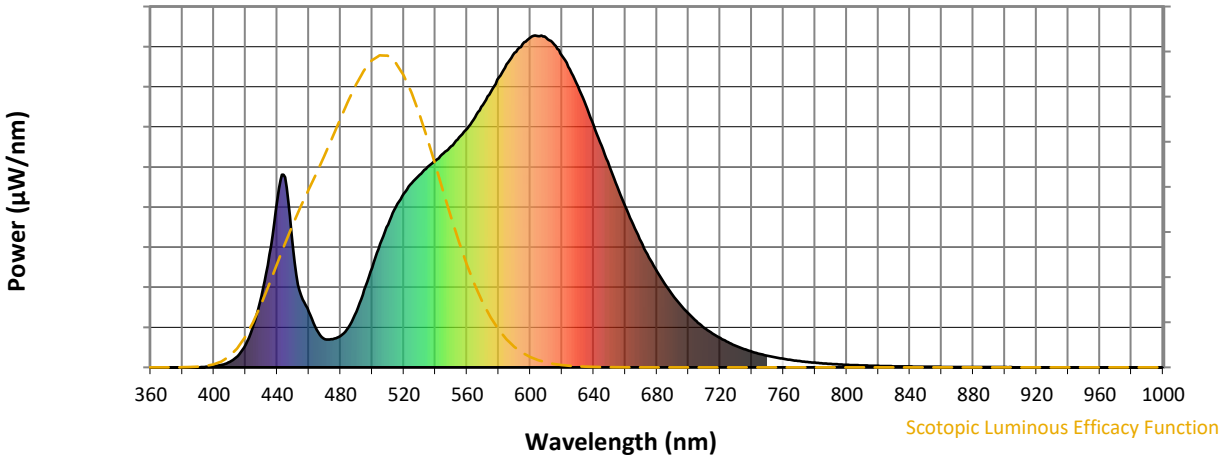
Scotopic Flux vs. Wavelength



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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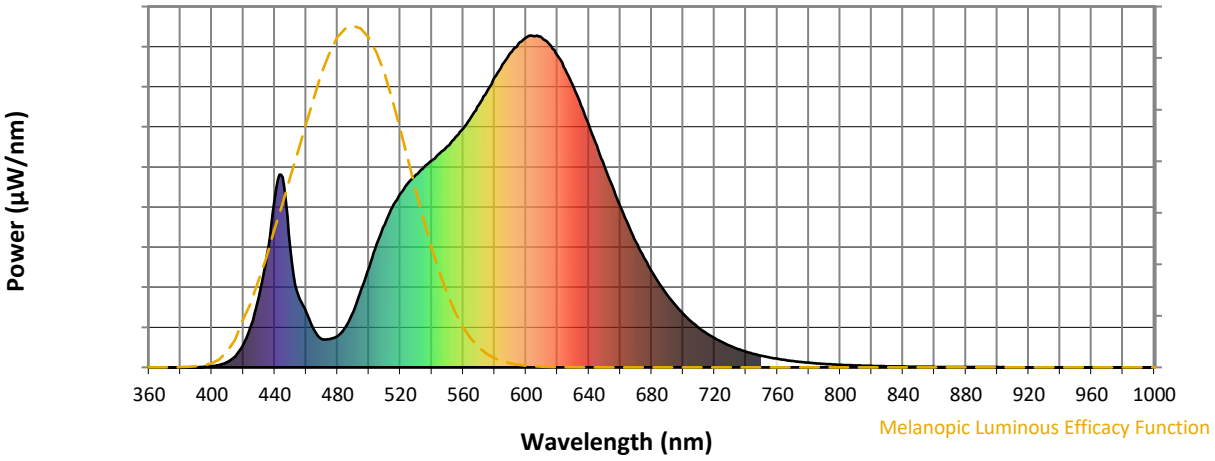
Melanopic Flux vs. Wavelength



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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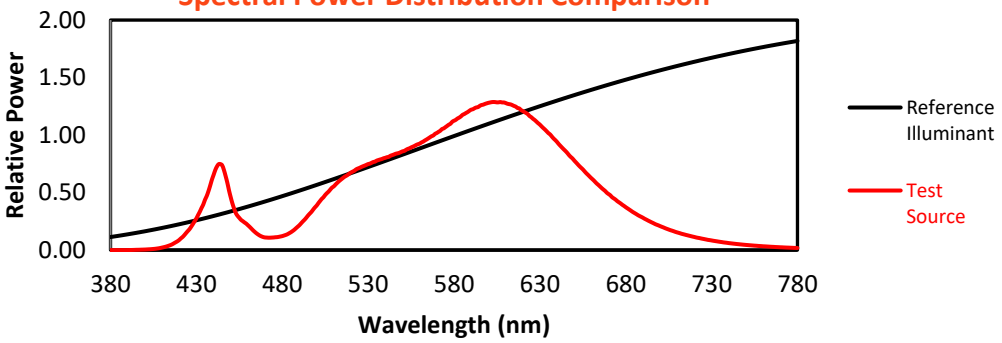
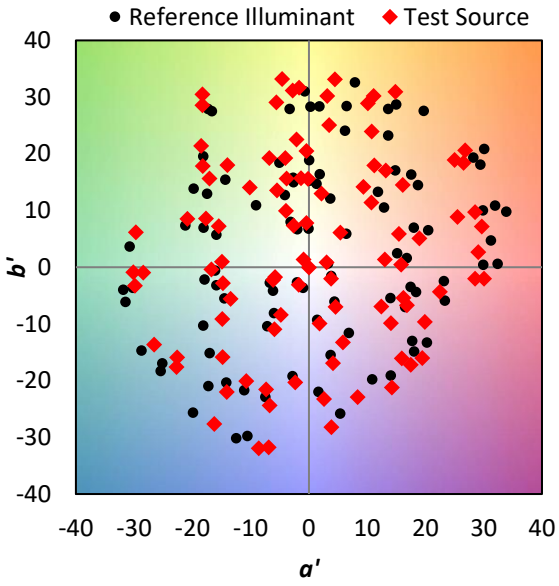
Summary

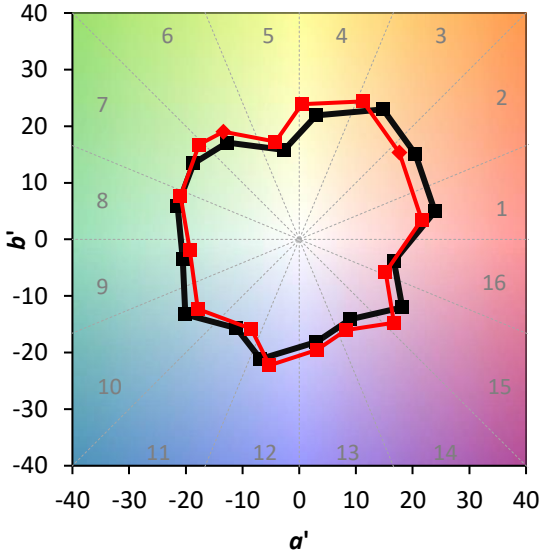
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

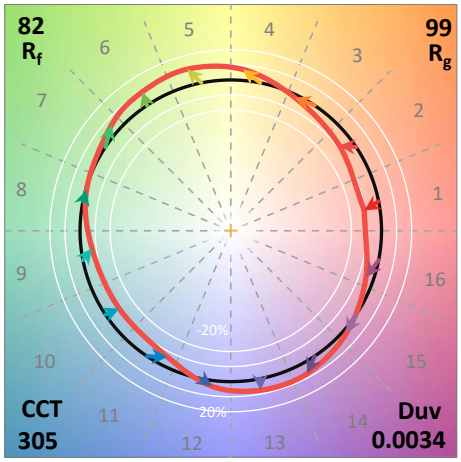
Spectral Power Distribution Comparison

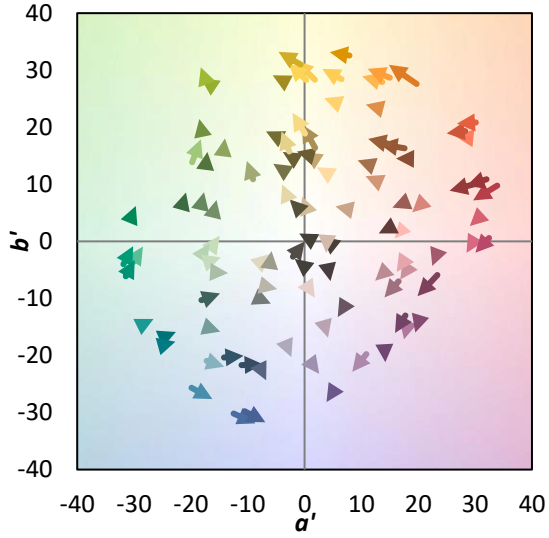


Color Vector Graphics









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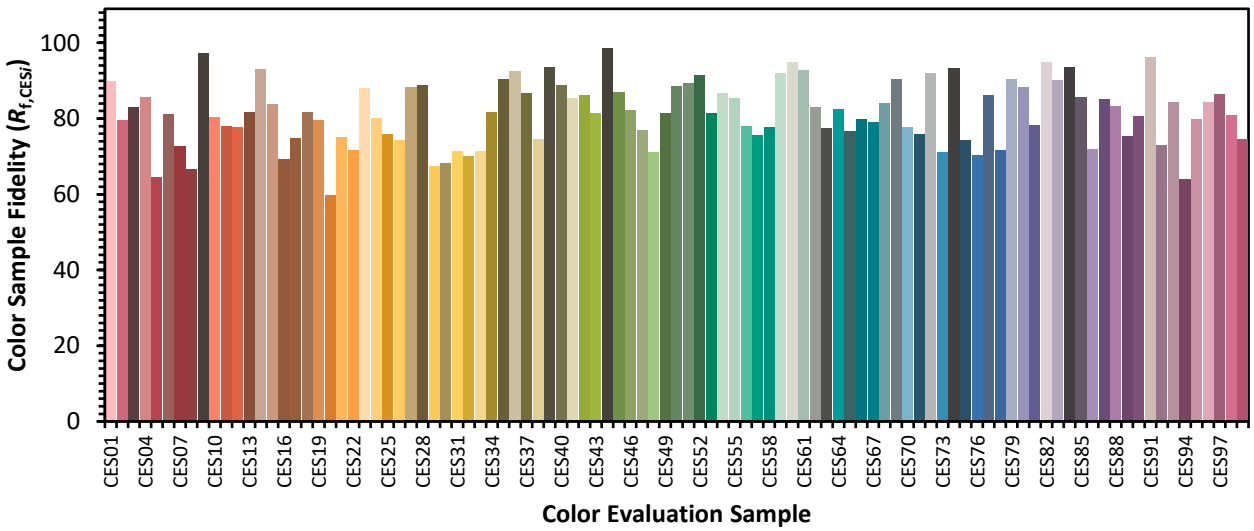
Individual Sample Fidelity Index ($R_{f,i}$)

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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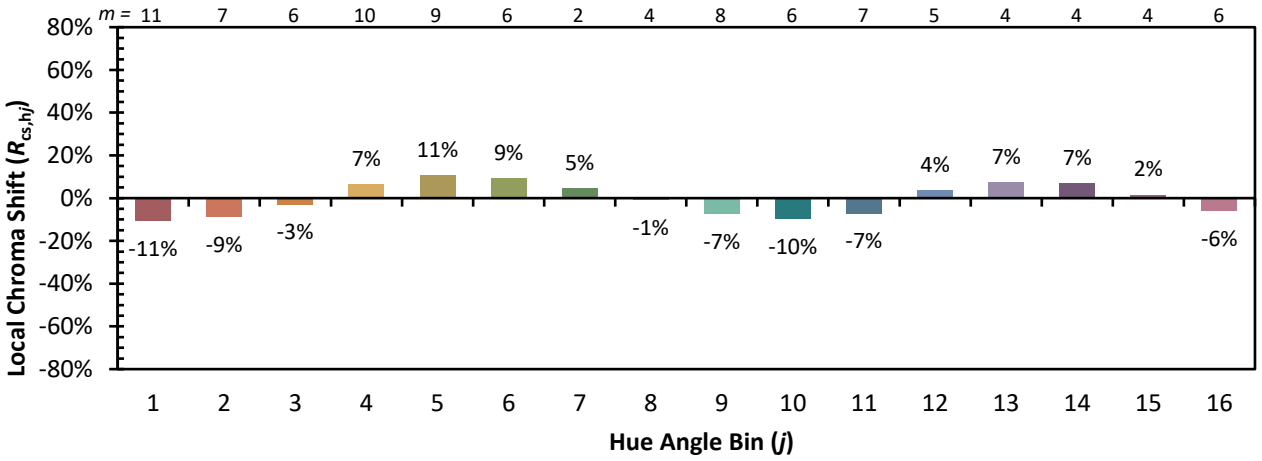
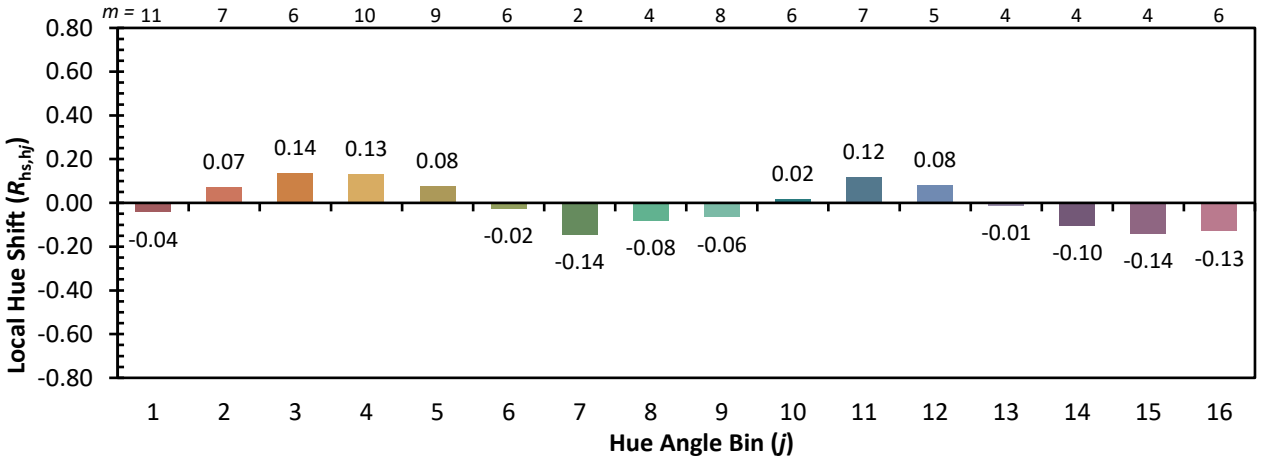
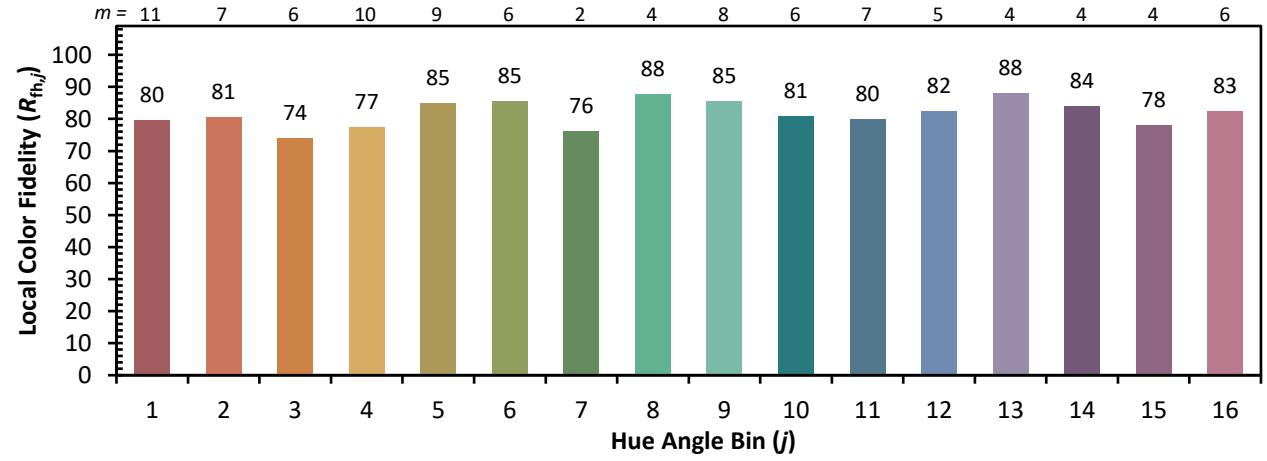
Color Rendition by Hue-Angle Bin







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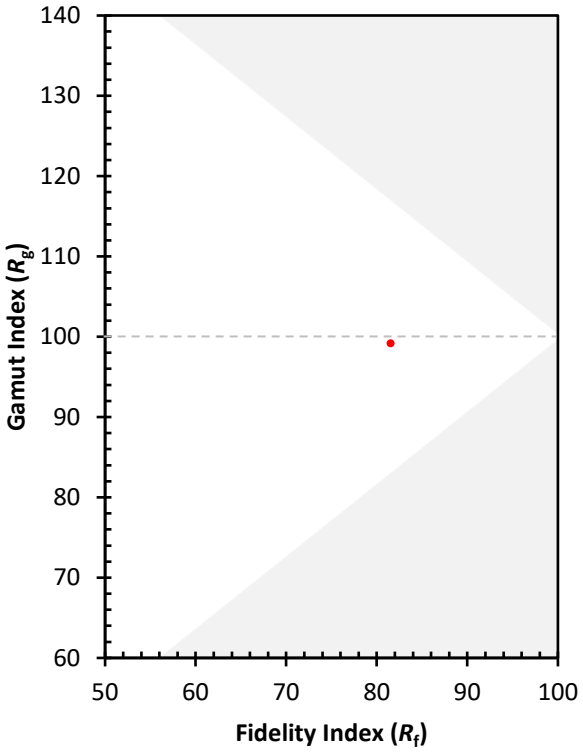
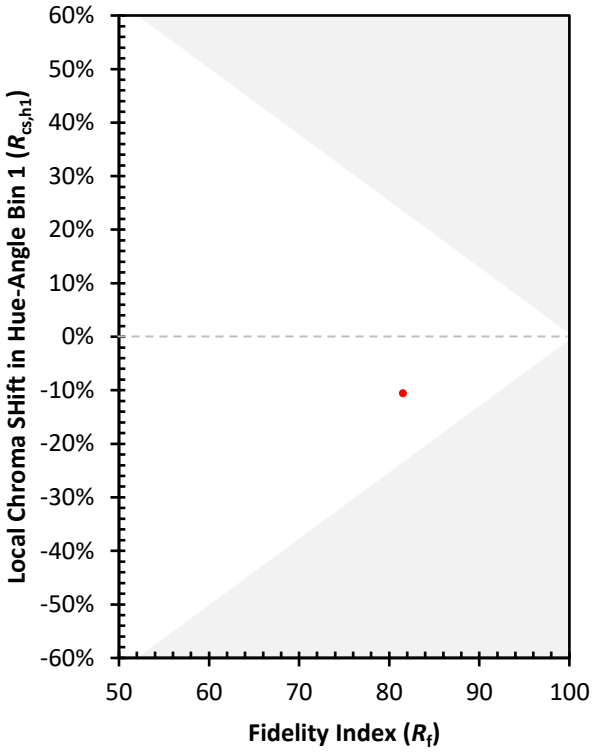
Measure Comparisons





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