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: P437936

Luminaire Tested: **ISC-SA1F-830-U-SL4-HSS**

Issue Date: 12/9/2020

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:	P437936
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-074-19)
Test Lab:	INNOVATION CENTER
Issue Date:	12/9/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	ISC-SA1F-830-U-SL4-HSS
Description:	IMPACT ELITE LED CYLINDER LUMINAIRE
	(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS 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:	5087 lumens
Efficiency:	N/A
Efficacy:	77.1 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U0 - G2

Input Watts (W):	66
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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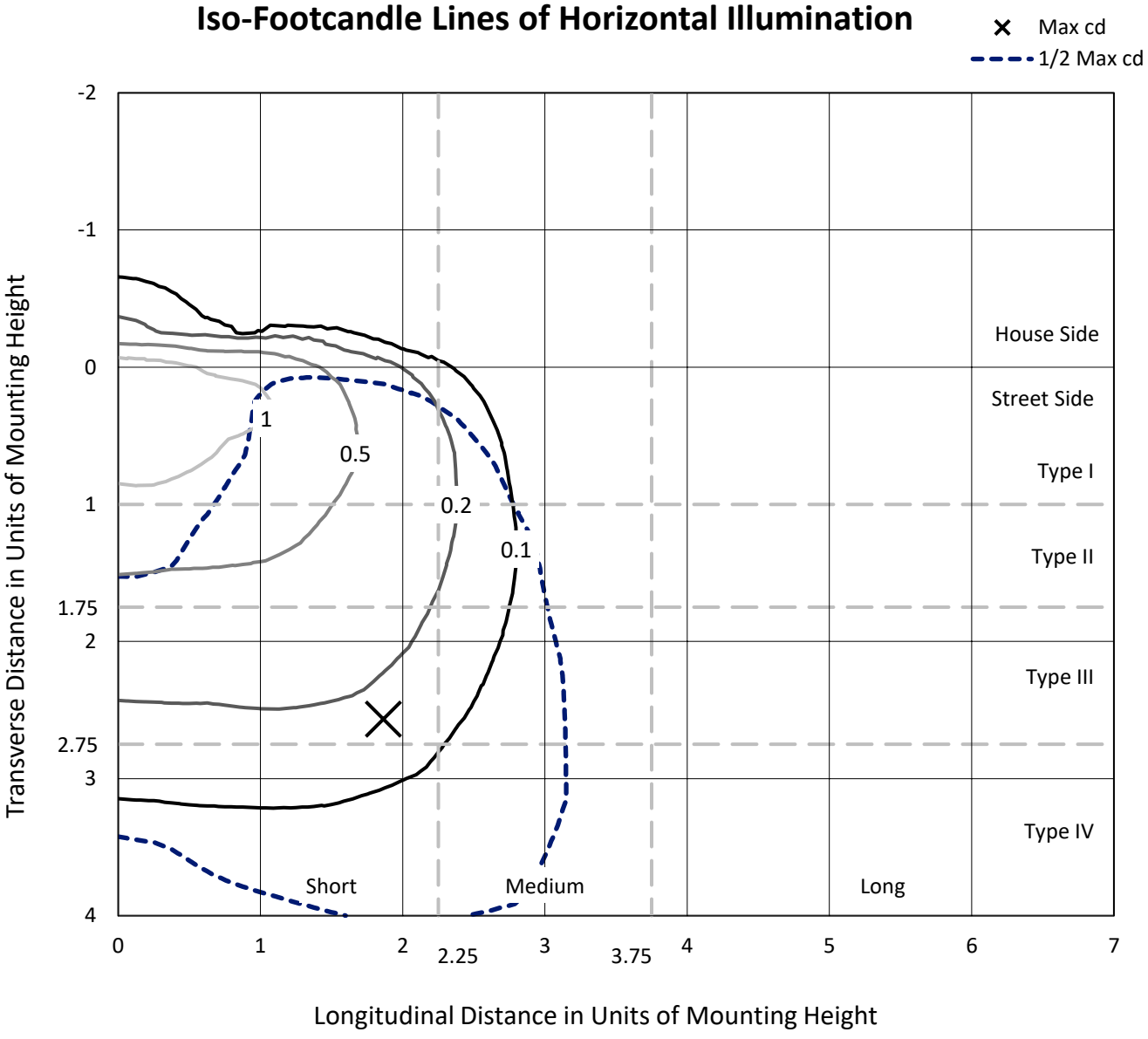
REPORT NUMBER: P437936
CATALOG NUMBER: ISC-SA1F-830-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
Type IV - Short - N/A

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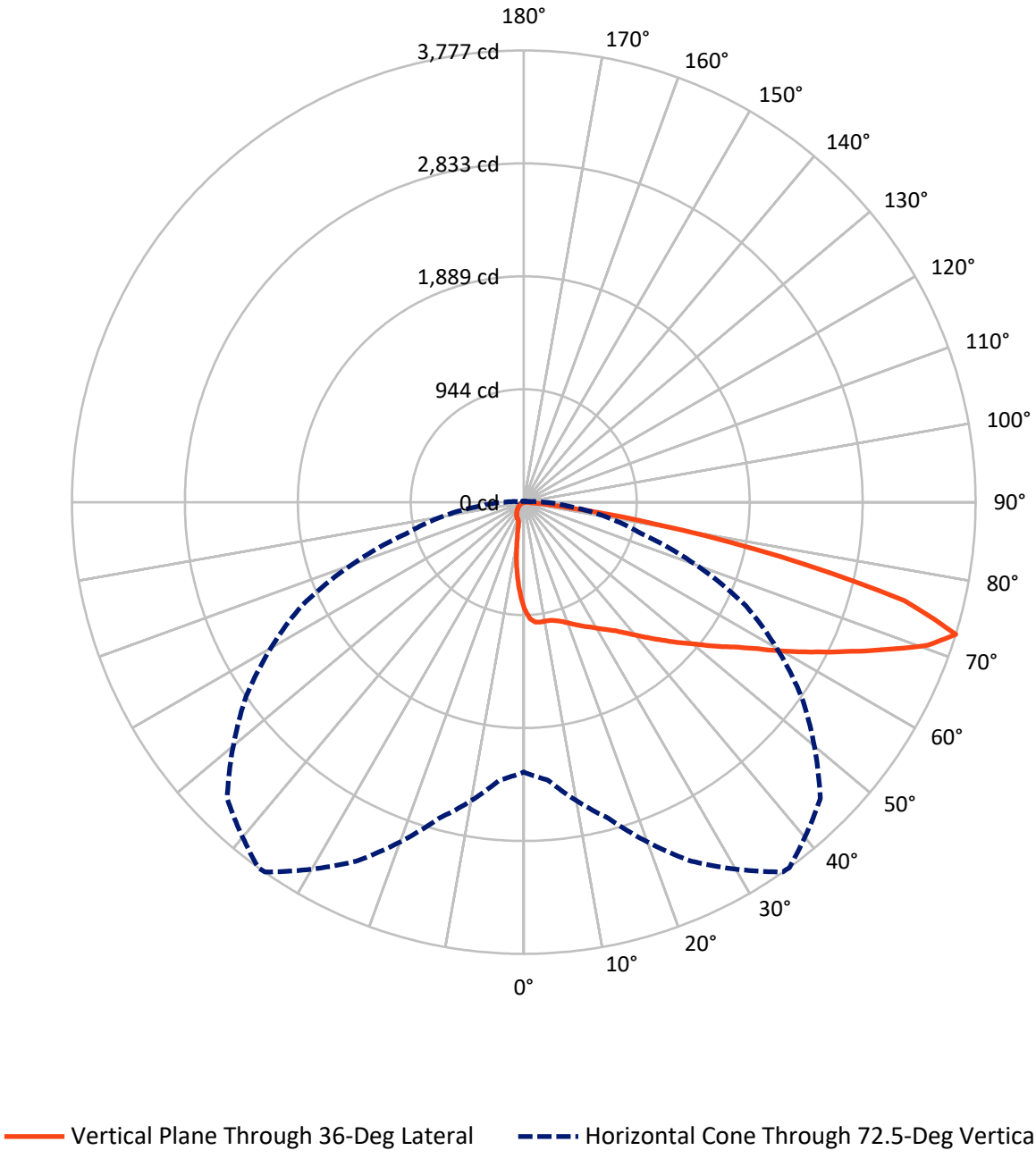
Luminous Intensity Polar Plot



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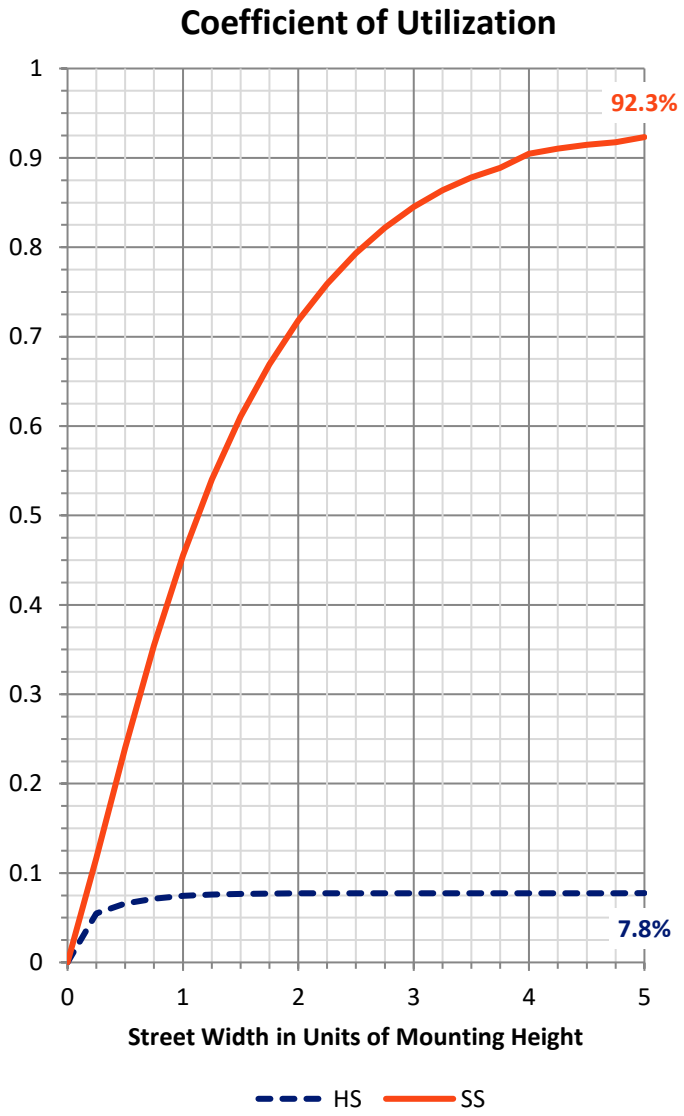
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	396.9	0.0	396.9
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	4690.1	0.0	4690.1
	% Fixture	92.2	0.0	92.2
Total	Lumens	5087.0	0.0	5087.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.3	1.5
10°-20°	191.5	3.8
20°-30°	312.8	6.1
30°-40°	475.6	9.3
40°-50°	727.3	14.3
50°-60°	1034.1	20.3
60°-70°	1311.4	25.8
70°-80°	897.9	17.7
80°-90°	60.1	1.2
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°	5087.0	100.0
0°-180°	5087.0	100.0



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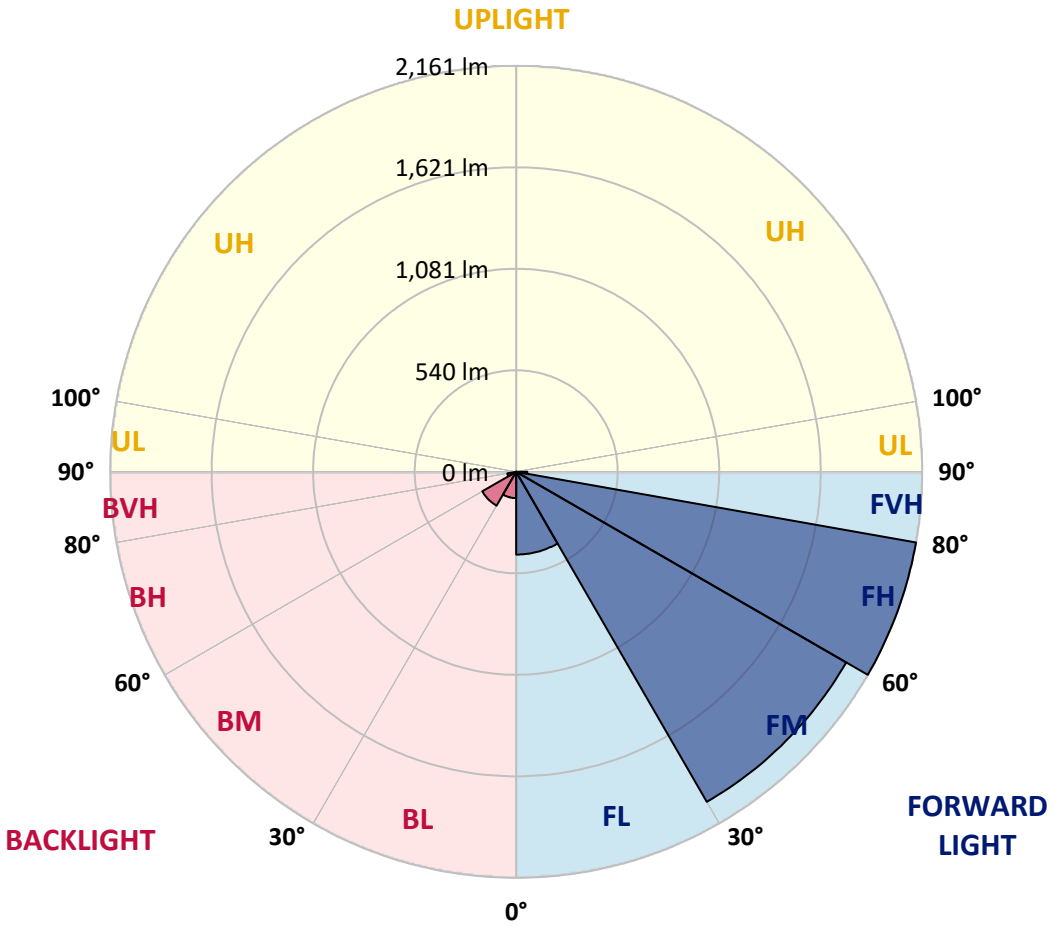
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	440.6	8.7			
FM	(30°-60°)	2028.8	39.9			
FH	(60°-80°)	2161.4	42.5			G2/5000
FVH	(80°-90°)	59.3	1.2			G1/100
BL	(0°-30°)	140.1	2.8	B1/500		
BM	(30°-60°)	208.1	4.1	B0/220		
BH	(60°-80°)	47.8	0.9	B0/110		G0/110
BVH	(80°-90°)	0.9	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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Scaled Data Report

REPORT NUMBER: P437936
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	893.4	893.4	893.4	893.4	893.4	*893.4*	893.4	893.4	893.4	893.4	893.4
2.5°	1000.8	994.1	989.6	985.2	971.7	*974.0*	960.5	947.1	926.9	918.0	904.5
5°	1025.5	1023.2	1021.0	1014.3	1003.1	*1007.5*	994.1	980.7	951.6	924.7	895.6
7.5°	1021.0	1025.5	1023.2	1018.7	1009.8	*1012.0*	1000.8	987.4	962.8	926.9	886.6
10°	1012.0	1014.3	1014.3	1012.0	1009.8	*1009.8*	1000.8	989.6	967.2	935.9	884.4
12.5°	994.1	998.6	1005.3	1009.8	1012.0	*1014.3*	1007.5	998.6	978.4	944.8	891.1
15°	987.4	991.9	1005.3	1018.7	1025.5	*1027.7*	1021.0	1009.8	991.9	962.8	902.3
17.5°	987.4	991.9	1014.3	1034.4	1047.8	*1050.1*	1041.1	1029.9	1007.5	978.4	915.7
20°	1000.8	1005.3	1032.2	1068.0	1074.7	*1079.2*	1065.8	1050.1	1025.5	996.3	931.4
22.5°	1023.2	1029.9	1063.5	1097.1	1110.5	*1112.8*	1097.1	1068.0	1045.6	1016.5	944.8
25°	1061.3	1076.9	1108.3	1144.1	1146.4	*1148.6*	1124.0	1094.9	1068.0	1038.9	960.5
27.5°	1115.0	1128.4	1155.3	1195.6	1182.2	*1182.2*	1162.0	1124.0	1097.1	1070.2	987.4
30°	1184.4	1193.4	1224.7	1240.4	1222.5	*1224.7*	1200.1	1164.3	1141.9	1115.0	1027.7
32.5°	1249.4	1256.1	1289.7	1291.9	1271.7	*1269.5*	1251.6	1209.0	1191.1	1182.2	1083.7
35°	1309.8	1318.8	1345.6	1343.4	1323.2	*1321.0*	1312.0	1274.0	1274.0	1282.9	1166.5
37.5°	1354.6	1377.0	1410.6	1401.6	1388.2	*1388.2*	1381.5	1352.3	1374.7	1408.3	1276.2
40°	1412.8	1426.2	1471.0	1464.3	1466.5	*1466.5*	1468.8	1450.9	1491.2	1547.1	1403.8
42.5°	1444.1	1471.0	1524.7	1533.7	1553.9	*1553.9*	1571.8	1567.3	1643.4	1715.1	1551.6
45°	1493.4	1522.5	1580.7	1614.3	1638.9	*1650.1*	1681.5	1706.1	1813.6	1903.1	1708.3
47.5°	1556.1	1580.7	1630.0	1692.7	1737.4	*1755.4*	1818.1	1858.4	2001.6	2093.4	1856.1
50°	1641.2	1645.7	1681.5	1775.5	1853.9	*1865.1*	1963.6	2030.8	2192.0	2277.0	1961.3
52.5°	1733.0	1724.0	1744.2	1871.8	1981.5	*2001.6*	2113.6	2216.6	2377.8	2395.7	2003.9
55°	1804.6	1804.6	1820.3	1977.0	2124.8	*2136.0*	2292.7	2402.4	2548.0	2465.1	2030.8
57.5°	1896.4	1887.5	1912.1	2084.5	2303.9	*2312.9*	2494.2	2579.3	2642.0	2509.9	2026.3
60°	1963.6	1974.8	2012.8	2223.3	2489.7	*2530.0*	2682.3	2709.2	2740.5	2525.6	2012.8
62.5°	2057.6	2055.4	2129.3	2377.8	2731.6	*2758.4*	2863.7	2818.9	2816.6	2552.4	1994.9
65°	2136.0	2153.9	2265.8	2563.6	2989.0	*3007.0*	3042.8	2984.6	2921.9	2581.5	1838.2
67.5°	2256.9	2292.7	2433.8	2807.7	3264.4	*3284.6*	3315.9	3188.3	2951.0	2375.6	1531.5
70°	2393.5	2440.5	2668.9	3132.3	3560.0	*3582.4*	3589.1	3208.5	2673.3	1865.1	1038.9
72.5°	*2256.9*	*2333.0*	*2736.0*	*3311.5*	*3774.9*	*3777.2*	*3506.2*	*2834.5*	*2048.7*	*1018.7*	*367.2*
75°	1453.1	1549.4	2265.8	2937.5	3251.0	*3286.8*	2749.5	1981.5	956.0	228.4	103.0
77.5°	492.6	526.2	1112.8	1853.9	2180.8	*2194.2*	1809.1	1003.1	302.3	91.8	56.0
80°	284.4	282.1	389.6	810.5	1088.1	*1130.7*	911.3	400.8	141.1	47.0	38.1
82.5°	67.2	69.4	203.7	295.5	432.1	*389.6*	192.6	241.8	64.9	26.9	33.6
85°	0.0	0.0	33.6	71.6	51.5	*60.5*	17.9	73.9	11.2	11.2	22.4
87.5°	0.0	0.0	0.0	0.0	2.2	*2.2*	2.2	2.2	2.2	2.2	2.2
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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CATALOG NUMBER: ISC-SA1F-830-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	893.4	893.4	893.4	893.4	893.4	893.4	893.4	893.4	893.4	893.4	893.4
2.5°	891.1	879.9	857.5	839.6	815.0	794.8	774.7	765.7	750.1	745.6	747.8
5°	877.7	859.8	817.2	774.7	727.7	682.9	635.9	609.0	597.8	577.7	573.2
7.5°	862.0	835.1	774.7	705.3	624.7	559.7	494.8	450.0	409.7	394.1	387.3
10°	855.3	821.7	736.6	631.4	521.7	416.5	335.8	277.6	241.8	228.4	223.9
12.5°	855.3	815.0	700.8	559.7	414.2	293.3	219.4	185.8	174.6	172.4	170.2
15°	864.2	812.7	667.2	483.6	313.5	203.7	167.9	163.4	161.2	161.2	163.4
17.5°	868.7	808.3	631.4	409.7	230.6	163.4	156.7	156.7	156.7	156.7	156.7
20°	879.9	806.0	591.1	331.4	174.6	152.3	150.0	150.0	150.0	150.0	152.3
22.5°	882.2	806.0	541.8	255.2	154.5	145.5	143.3	143.3	143.3	145.5	145.5
25°	895.6	801.6	494.8	194.8	145.5	136.6	136.6	134.3	136.6	136.6	136.6
27.5°	913.5	803.8	436.6	161.2	136.6	129.9	127.6	127.6	127.6	127.6	127.6
30°	933.7	808.3	376.1	143.3	127.6	123.1	120.9	118.7	118.7	118.7	118.7
32.5°	971.7	812.7	311.2	129.9	118.7	114.2	111.9	109.7	109.7	109.7	109.7
35°	1029.9	837.4	255.2	120.9	109.7	105.2	103.0	100.8	100.8	100.8	98.5
37.5°	1108.3	875.4	201.5	111.9	100.8	96.3	94.0	91.8	89.6	89.6	89.6
40°	1202.3	915.7	167.9	100.8	91.8	87.3	85.1	82.8	80.6	78.4	78.4
42.5°	1314.3	965.0	134.3	91.8	82.8	78.4	76.1	73.9	69.4	67.2	69.4
45°	1439.7	1012.0	114.2	85.1	76.1	71.6	69.4	64.9	60.5	58.2	58.2
47.5°	1549.4	1023.2	100.8	76.1	69.4	64.9	62.7	56.0	51.5	47.0	47.0
50°	1623.3	1003.1	89.6	69.4	62.7	60.5	56.0	47.0	40.3	38.1	35.8
52.5°	1632.2	949.3	78.4	62.7	58.2	53.7	47.0	40.3	33.6	29.1	29.1
55°	1623.3	859.8	69.4	58.2	51.5	47.0	40.3	31.3	24.6	22.4	20.2
57.5°	1594.2	765.7	62.7	51.5	47.0	40.3	31.3	24.6	17.9	15.7	13.4
60°	1540.4	651.5	56.0	47.0	40.3	33.6	24.6	17.9	11.2	9.0	9.0
62.5°	1439.7	526.2	49.3	40.3	33.6	26.9	20.2	11.2	6.7	4.5	4.5
65°	1240.4	394.1	42.5	33.6	26.9	22.4	13.4	6.7	2.2	0.0	0.0
67.5°	965.0	266.4	33.6	26.9	22.4	17.9	11.2	2.2	0.0	0.0	0.0
70°	568.7	141.1	26.9	20.2	17.9	13.4	6.7	2.2	0.0	0.0	0.0
72.5°	*163.4*	*56.0*	*20.2*	*15.7*	*13.4*	*9.0*	*4.5*	*2.2*	*0.0*	*0.0*	*0.0*
75°	67.2	33.6	13.4	11.2	11.2	6.7	2.2	2.2	0.0	0.0	0.0
77.5°	44.8	24.6	9.0	6.7	6.7	4.5	2.2	0.0	0.0	0.0	0.0
80°	35.8	13.4	4.5	4.5	4.5	2.2	2.2	0.0	0.0	0.0	0.0
82.5°	31.3	9.0	2.2	2.2	2.2	2.2	0.0	0.0	0.0	0.0	0.0
85°	15.7	4.5	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.2	2.2	2.2	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

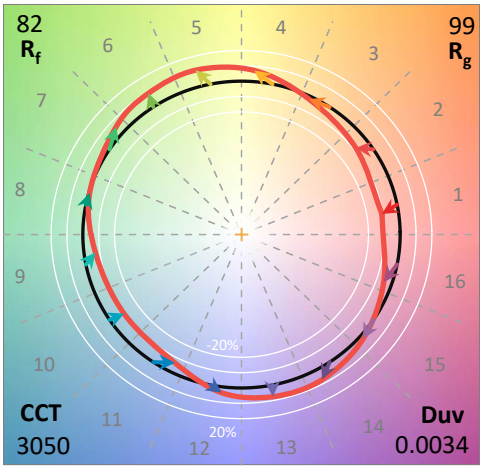
Test Information

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

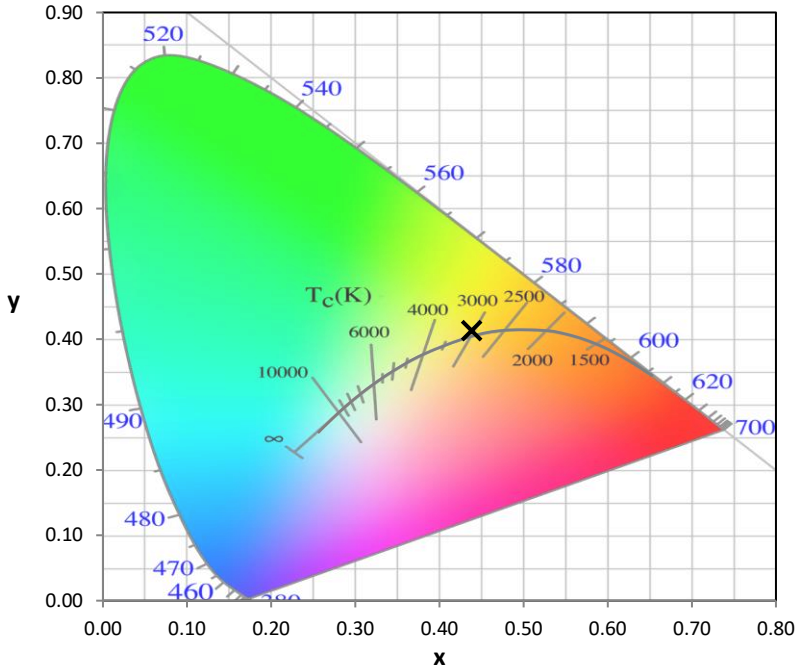
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

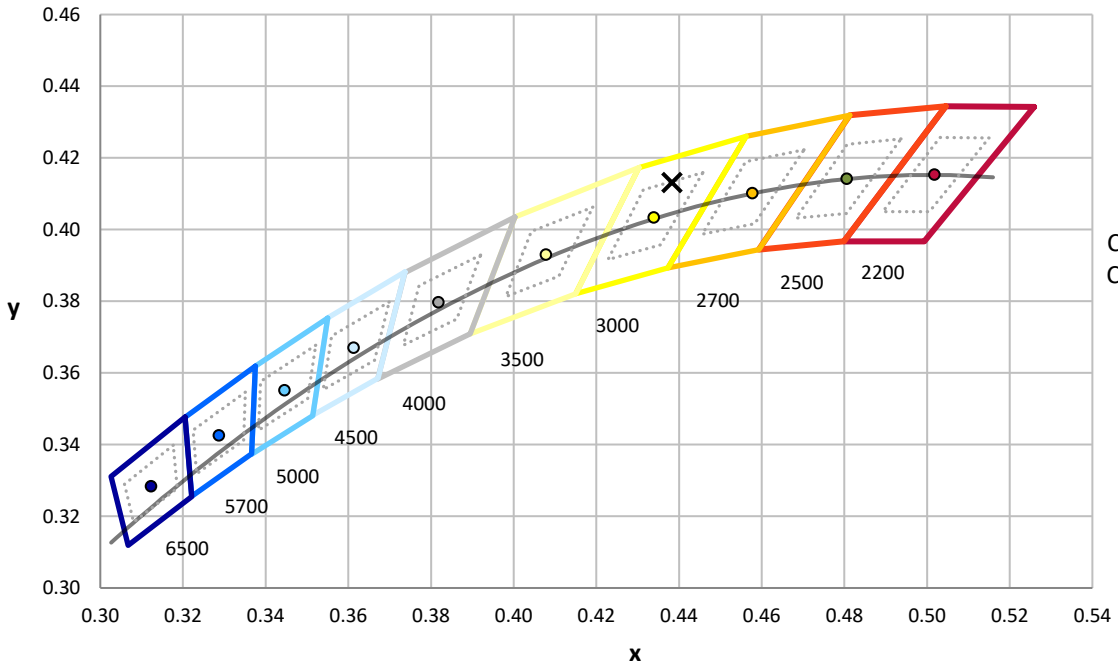
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

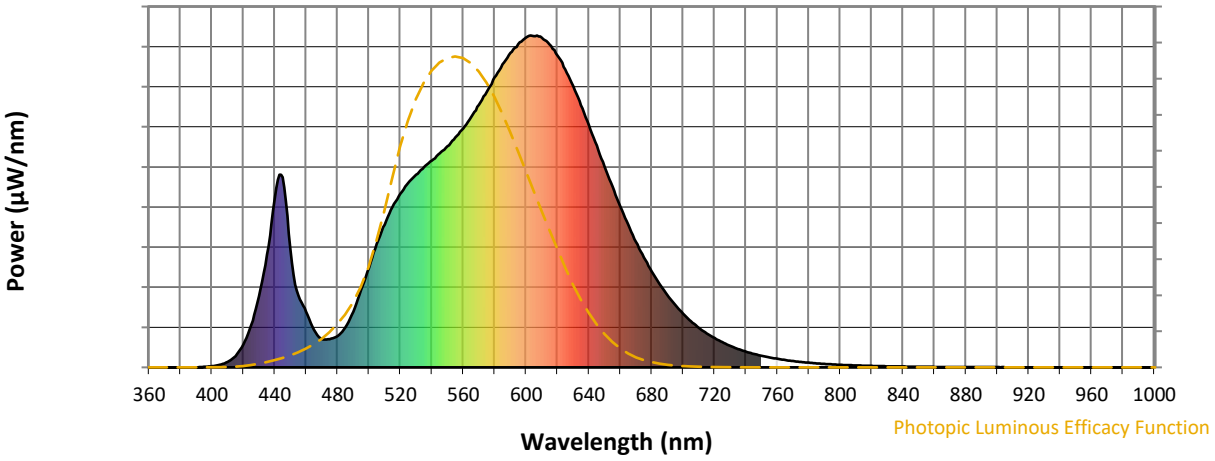


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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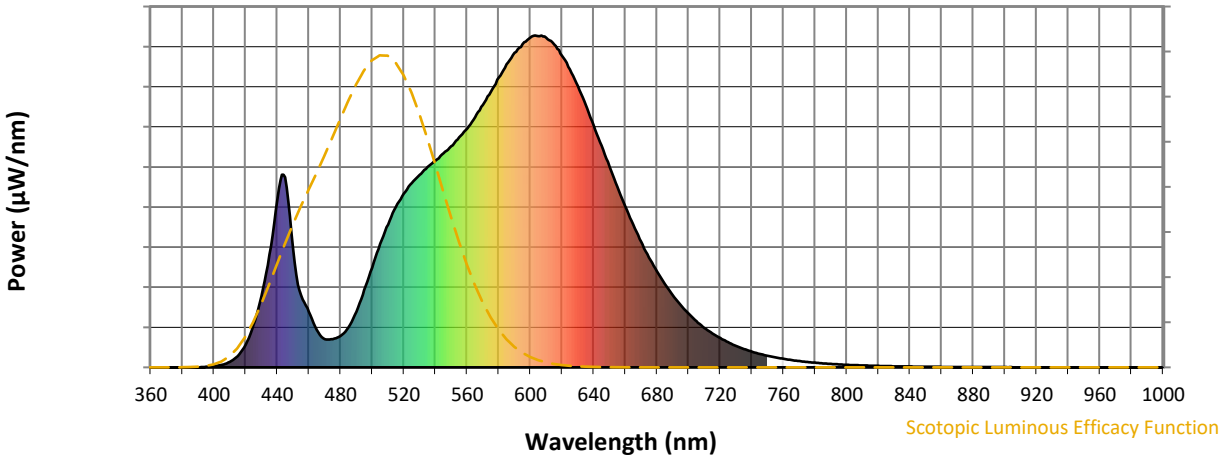
Scotopic Flux vs. Wavelength



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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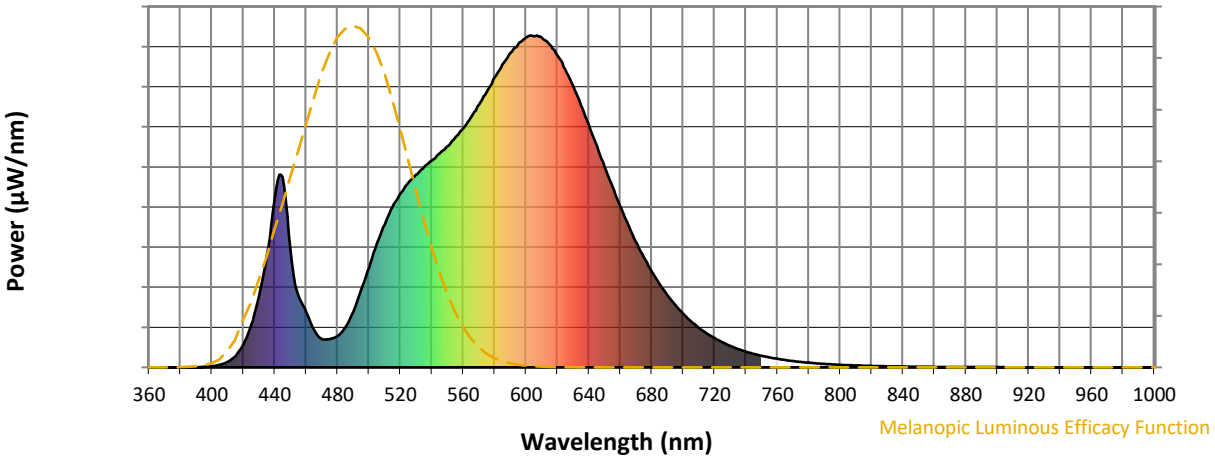
Melanopic Flux vs. Wavelength



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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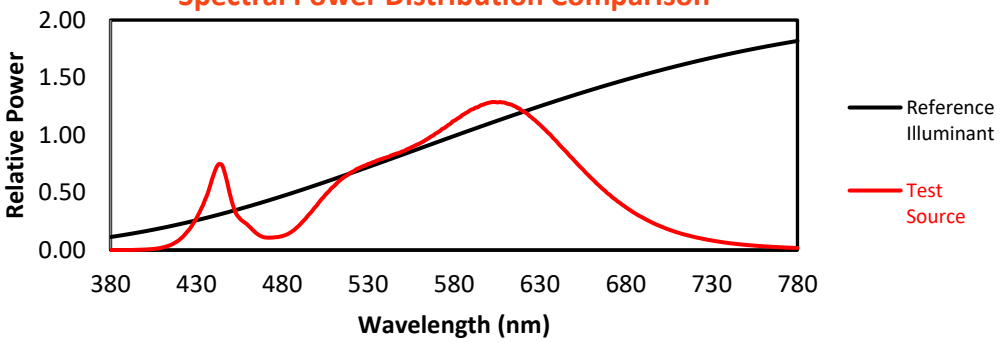
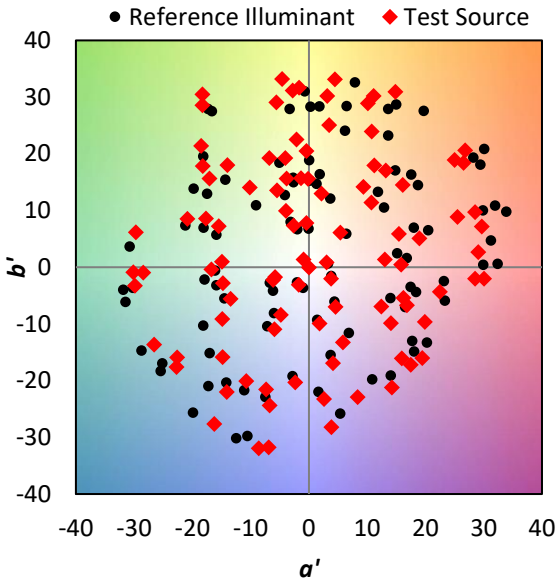
Summary

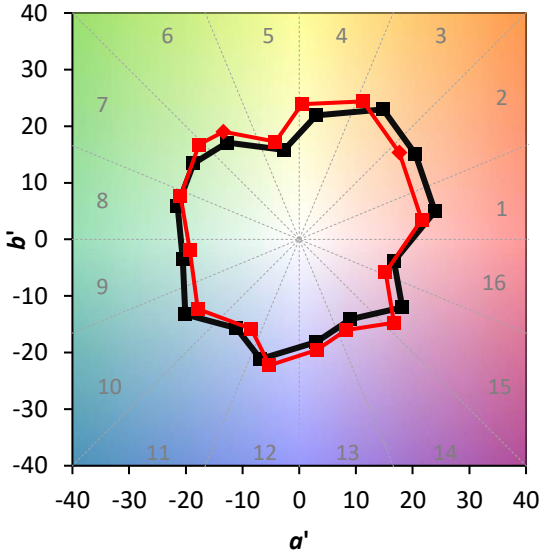
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

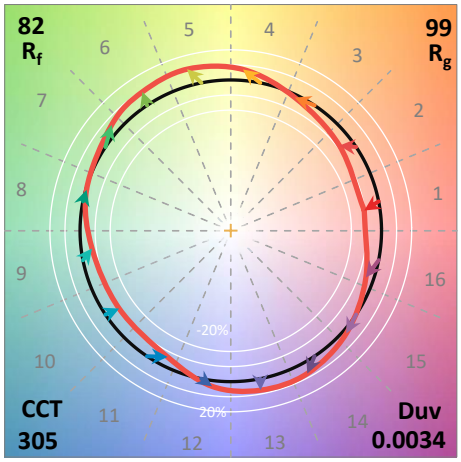
Spectral Power Distribution Comparison

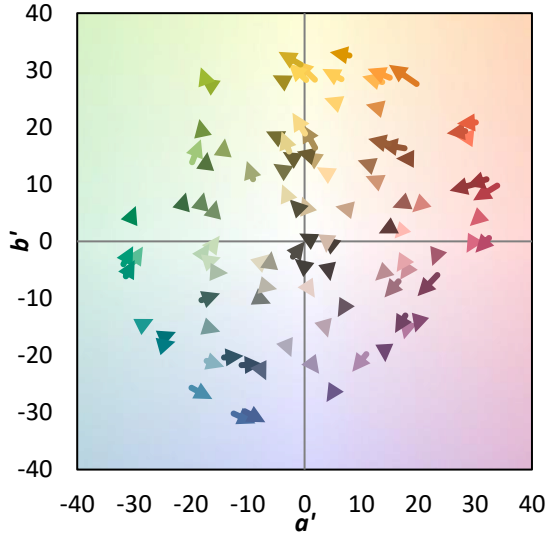


Color Vector Graphics









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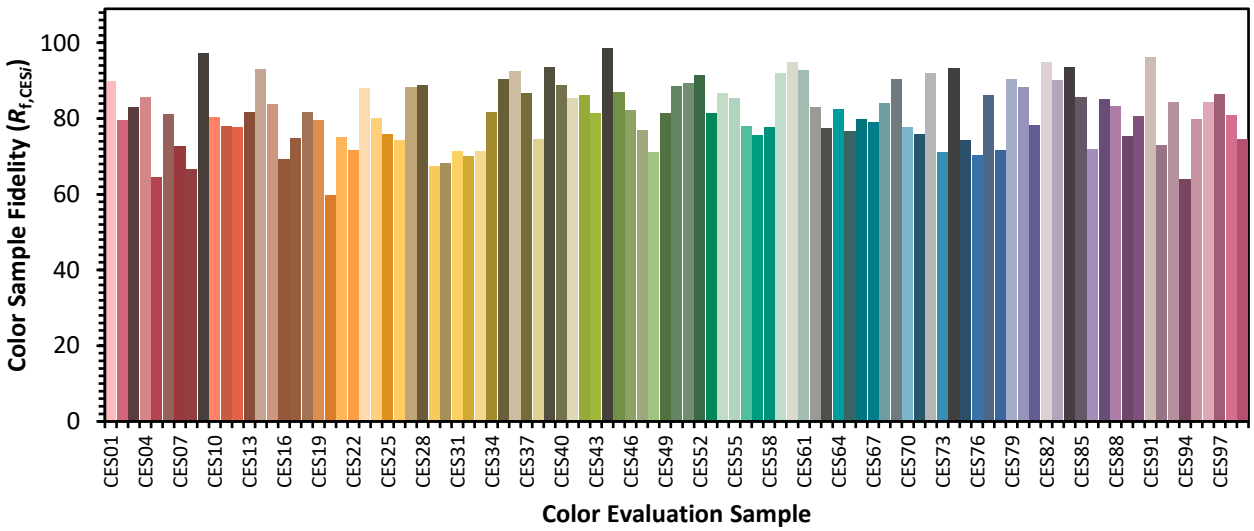
Individual Sample Fidelity Index ($R_{f,i}$)

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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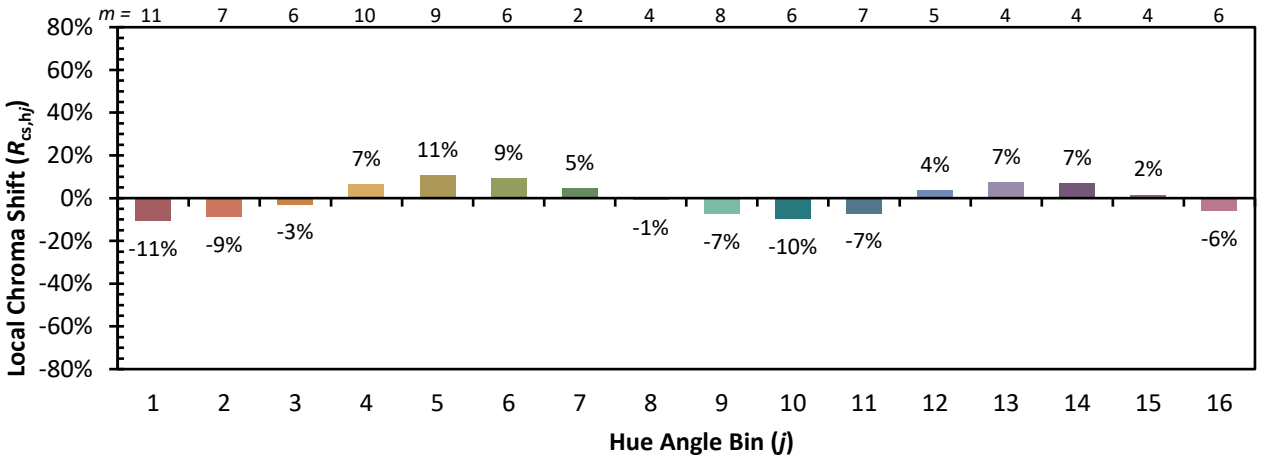
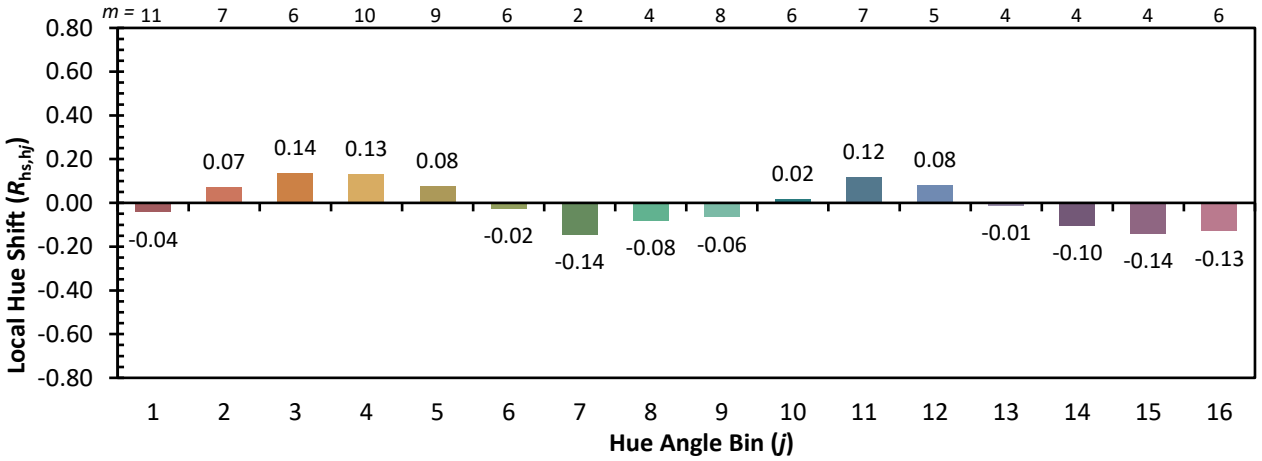
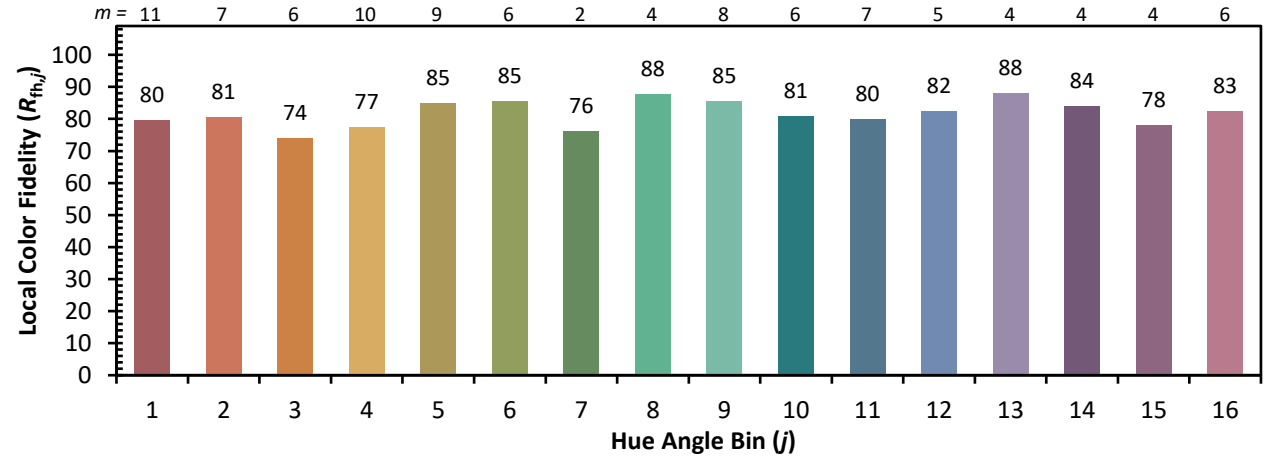
Color Rendition by Hue-Angle Bin







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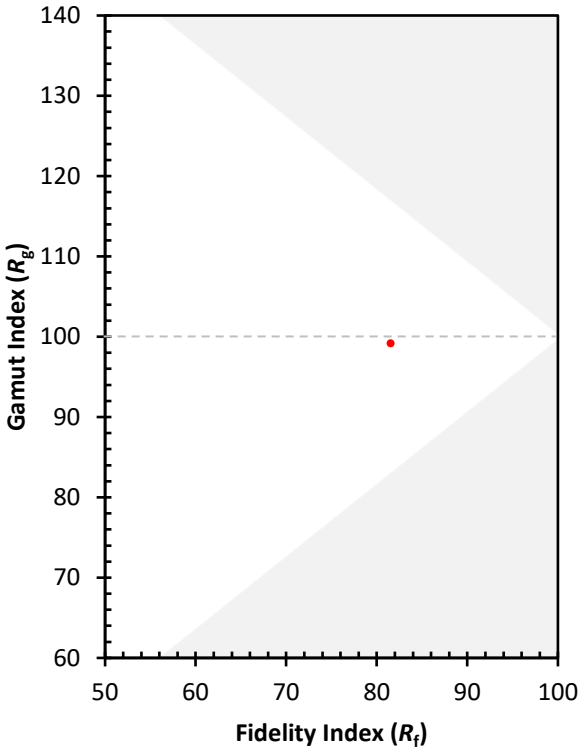
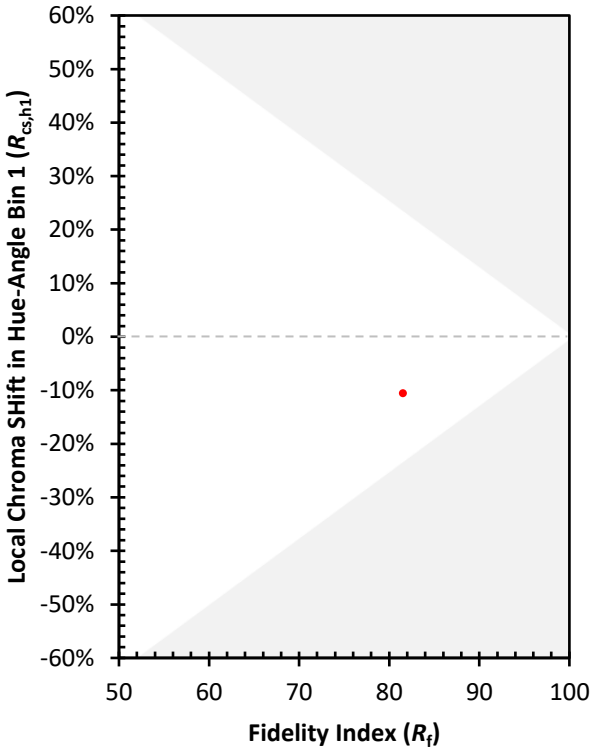
Measure Comparisons





(END OF REPORT)