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: P438618

Luminaire Tested: **IST-SA1D-830-U-SL3-HSS**

Issue Date: 12/10/2020

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:	P438618
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-074-17)
Test Lab:	INNOVATION CENTER
Issue Date:	12/10/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	IST-SA1D-830-U-SL3-HSS
Description:	IMPACT ELITE LED TRAPEZOID LUMINAIRE
	(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3727 lumens
Efficiency:	N/A
Efficacy:	82.5 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B1 - U0 - G1

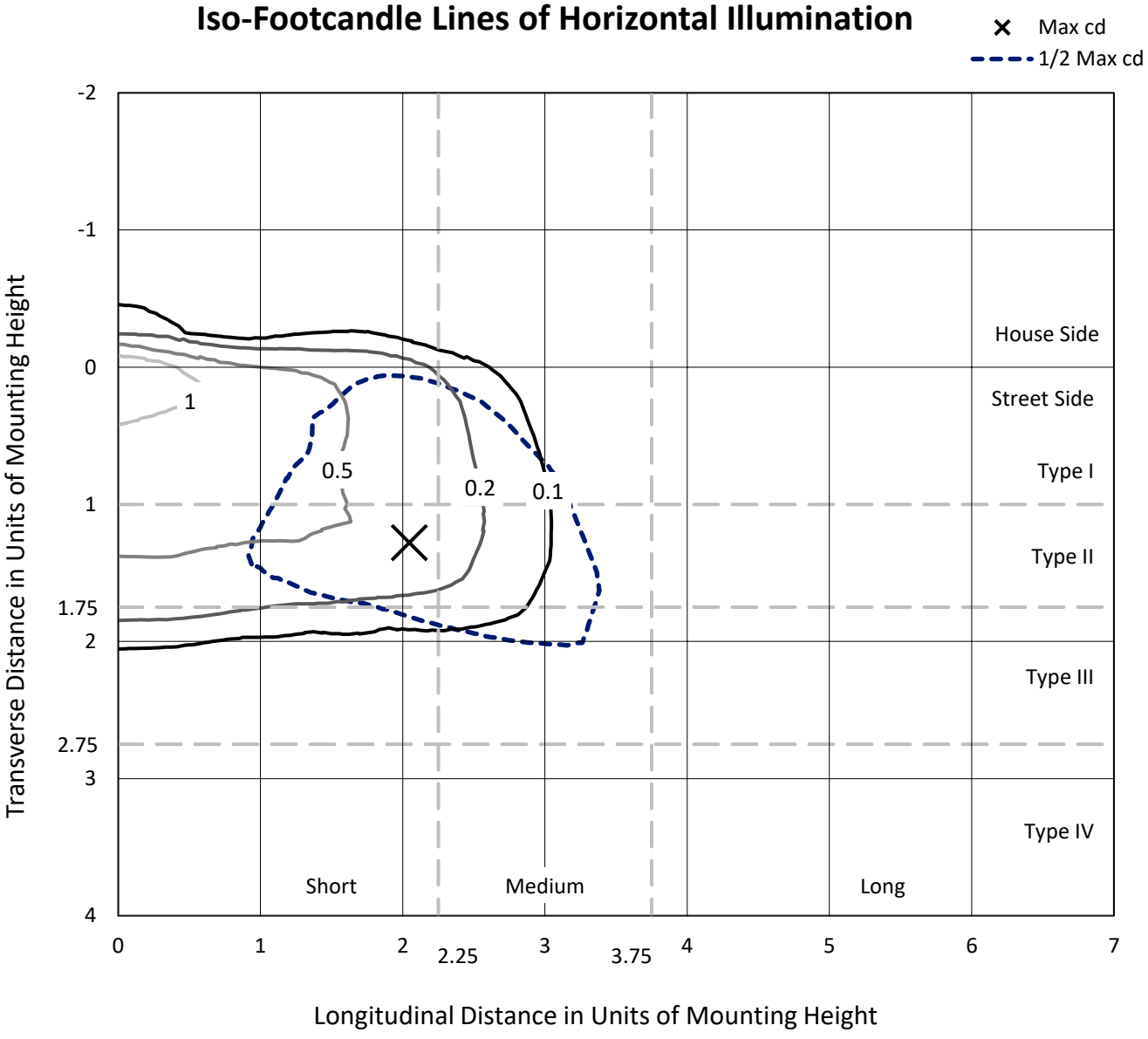
Input Watts (W):	45.2
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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

Scaled Data Report

REPORT NUMBER: P438618
CATALOG NUMBER: IST-SA1D-830-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination



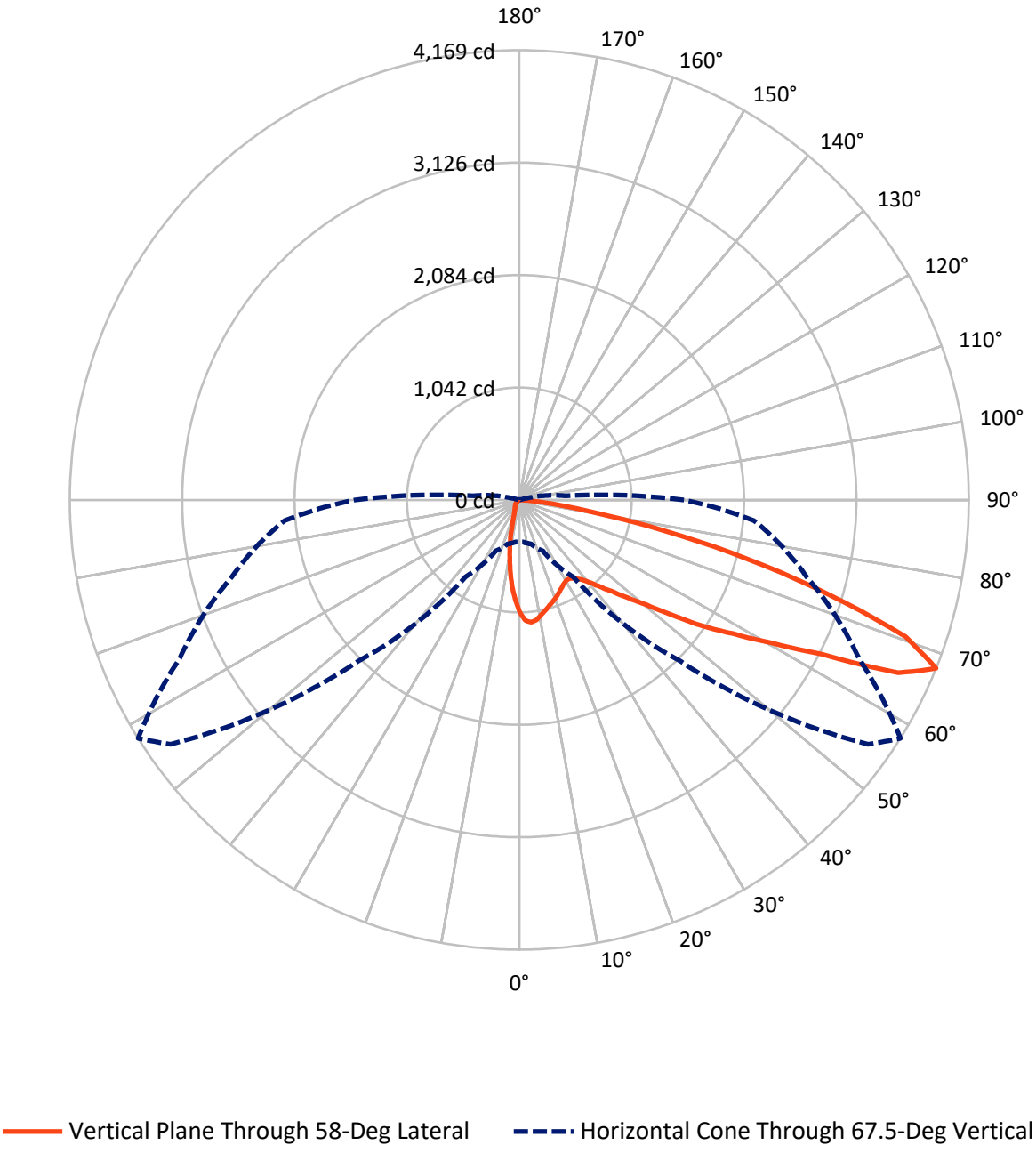
Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
Type III - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P438618
CATALOG NUMBER: IST-SA1D-830-U-SL3-HSS

Luminous Intensity Polar Plot



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

Scaled Data Report

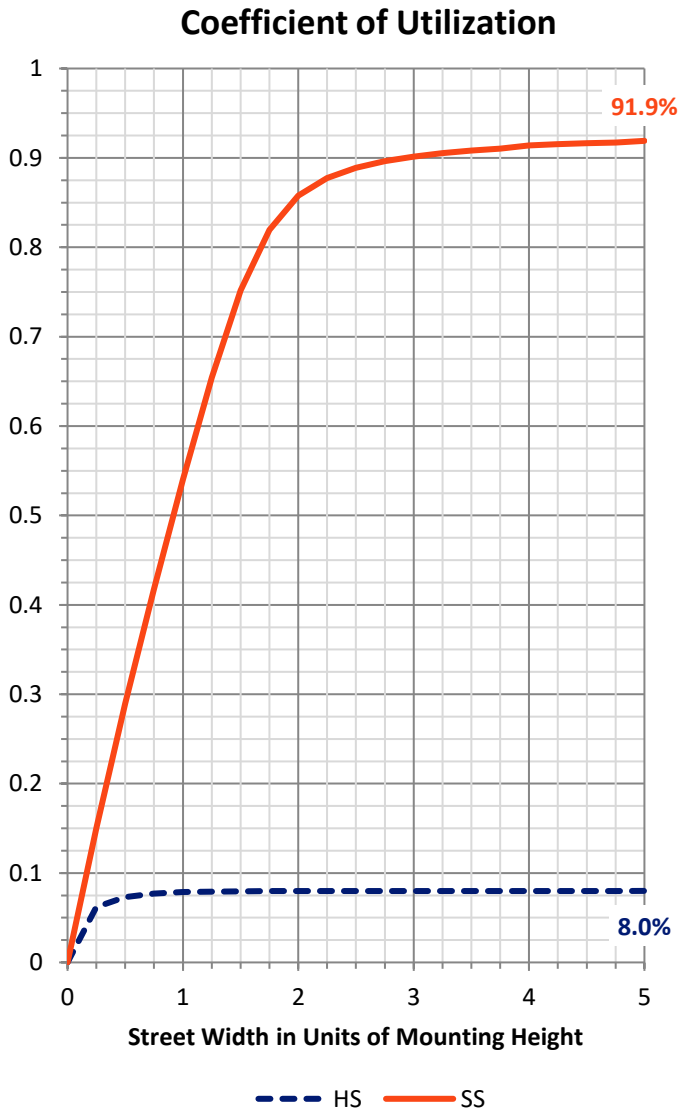
REPORT NUMBER: P438618
CATALOG NUMBER: IST-SA1D-830-U-SL3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	300.5	0.0	300.5
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	3426.5	0.0	3426.5
	% Fixture	91.9	0.0	91.9
Total	Lumens	3727.0	0.0	3727.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.0	2.3
10°-20°	177.1	4.8
20°-30°	239.6	6.4
30°-40°	329.5	8.8
40°-50°	515.8	13.8
50°-60°	869.0	23.3
60°-70°	1031.3	27.7
70°-80°	447.8	12.0
80°-90°	32.9	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°	3727.0	100.0
0°-180°	3727.0	100.0



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

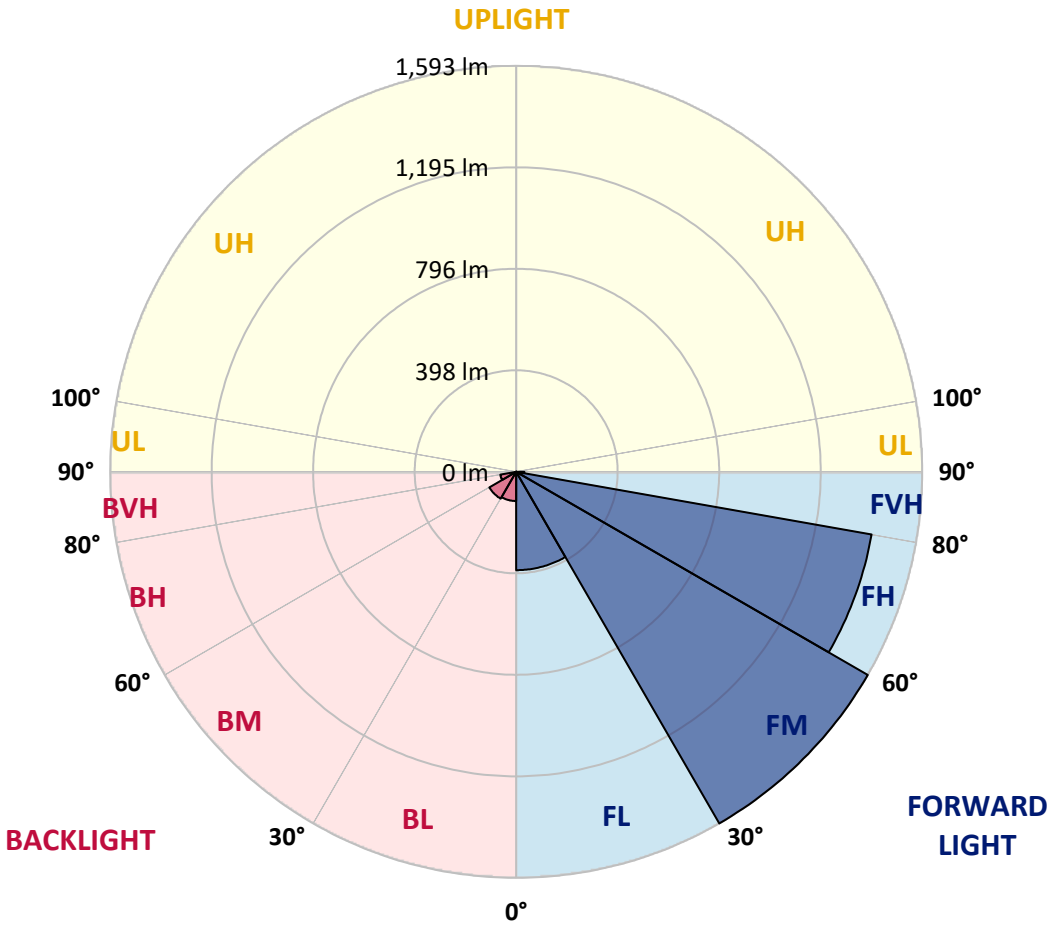
Scaled Data Report

REPORT NUMBER: P438618
CATALOG NUMBER: IST-SA1D-830-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	385.9	10.4			
FM	(30°-60°)	1592.8	42.7			
FH	(60°-80°)	1415.9	38.0			G1/1800
FVH	(80°-90°)	31.9	0.9			G1/100
BL	(0°-30°)	114.7	3.1	B1/500		
BM	(30°-60°)	121.5	3.3	B0/220		
BH	(60°-80°)	63.2	1.7	B0/110		G0/110
BVH	(80°-90°)	1.0	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-G1
Type III Short



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

Scaled Data Report

REPORT NUMBER: P438618
CATALOG NUMBER: IST-SA1D-830-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1049.3	1049.3	1049.3	1049.3	1049.3	1049.3	1049.3	*1049.3*	1049.3	1049.3	1049.3
2.5°	1171.3	1164.9	1161.6	1160.0	1148.8	1139.2	1119.9	*1118.3*	1105.5	1081.4	1057.4
5°	1145.6	1150.4	1152.0	1156.8	1155.2	1155.2	1142.4	*1139.2*	1121.5	1087.8	1041.3
7.5°	1089.4	1087.8	1091.1	1103.9	1110.3	1123.1	1121.5	*1124.7*	1116.7	1079.8	1014.0
10°	1007.6	1010.8	1020.5	1031.7	1049.3	1071.8	1086.2	*1089.4*	1095.9	1065.4	988.4
12.5°	932.2	937.0	943.4	965.9	985.2	1020.5	1047.7	*1054.1*	1067.0	1050.9	965.9
15°	869.6	871.2	876.0	896.9	929.0	973.9	1014.0	*1023.7*	1044.5	1038.1	948.3
17.5°	819.9	821.5	827.9	845.6	871.2	924.2	978.7	*994.8*	1025.3	1030.1	929.0
20°	792.6	792.6	792.6	803.8	829.5	879.3	943.4	*965.9*	1009.2	1017.2	913.0
22.5°	784.6	784.6	781.4	784.6	800.6	842.4	908.1	*935.4*	990.0	1012.4	893.7
25°	795.8	791.0	791.0	783.0	784.6	811.9	876.0	*906.5*	978.7	1009.2	884.1
27.5°	816.7	815.1	808.7	802.2	792.6	799.0	848.8	*879.3*	967.5	1014.0	876.0
30°	840.8	840.8	837.5	834.3	818.3	805.5	835.9	*863.2*	962.7	1022.1	871.2
32.5°	868.0	866.4	874.4	877.7	858.4	834.3	839.1	*864.8*	965.9	1046.1	874.4
35°	900.1	900.1	914.6	933.8	917.8	880.9	869.6	*892.1*	981.9	1071.8	887.3
37.5°	935.4	937.0	962.7	990.0	978.7	946.6	927.4	*935.4*	1015.6	1119.9	916.2
40°	977.1	977.1	1015.6	1060.6	1060.6	1023.7	998.0	*1004.4*	1063.8	1188.9	967.5
42.5°	1022.1	1026.9	1081.4	1136.0	1152.0	1118.3	1091.1	*1099.1*	1140.8	1278.8	1042.9
45°	1086.2	1100.7	1171.3	1224.2	1256.3	1240.3	1205.0	*1211.4*	1241.9	1408.7	1156.8
47.5°	1200.2	1213.0	1274.0	1326.9	1367.0	1375.0	1359.0	*1355.8*	1368.6	1561.2	1301.2
50°	1336.5	1347.8	1389.5	1434.4	1490.6	1538.7	1529.1	*1524.3*	1529.1	1728.0	1477.7
52.5°	1471.3	1466.5	1516.2	1540.3	1618.9	1724.8	1766.5	*1766.5*	1740.9	1902.9	1651.0
55°	1591.6	1612.5	1665.5	1708.8	1774.6	1901.3	2042.5	*2060.2*	1971.9	2076.2	1795.4
57.5°	1577.2	1598.1	1695.9	1832.3	2026.5	2198.1	2336.1	*2339.3*	2211.0	2209.4	1973.5
60°	1408.7	1410.3	1541.9	1748.9	2137.2	2626.5	2706.8	*2690.7*	2419.6	2395.5	2219.0
62.5°	991.6	985.2	1155.2	1418.4	1971.9	2860.8	3268.3	*3146.4*	2766.1	2687.5	2448.4
65°	577.6	574.4	640.2	847.2	1493.8	2695.5	3842.7	*3862.0*	3221.8	2836.7	2400.3
67.5°	*388.3*	*391.5*	*422.0*	*523.1*	*871.2*	*2114.7*	*3948.6*	*4168.5*	*3475.3*	*2759.7*	*2183.7*
70°	285.6	285.6	309.7	385.1	516.6	1325.3	3449.6	*3801.0*	3525.1	2567.2	1827.5
72.5°	203.8	203.8	237.5	311.3	422.0	683.5	2564.0	*3013.2*	2976.3	2130.8	1264.3
75°	130.0	133.2	170.1	255.1	385.1	438.0	1739.3	*2183.7*	2076.2	1192.1	539.1
77.5°	49.7	56.2	91.5	187.7	336.9	364.2	991.6	*1376.6*	1095.9	417.2	144.4
80°	17.6	17.6	30.5	96.3	237.5	300.0	518.2	*683.5*	356.2	101.1	54.6
82.5°	3.2	3.2	11.2	40.1	117.1	208.6	301.6	*336.9*	139.6	33.7	32.1
85°	0.0	0.0	1.6	8.0	27.3	20.9	120.3	*113.9*	43.3	14.4	20.9
87.5°	0.0	0.0	0.0	0.0	1.6	1.6	3.2	*3.2*	3.2	3.2	3.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0

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

Scaled Data Report

REPORT NUMBER: P438618
CATALOG NUMBER: IST-SA1D-830-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1049.3	1049.3	1049.3	1049.3	1049.3	1049.3	1049.3	1049.3	1049.3	1049.3	1049.3
2.5°	1038.1	1025.3	988.4	962.7	927.4	892.1	869.6	852.0	844.0	832.7	837.5
5°	1012.4	983.5	916.2	855.2	797.4	736.5	691.5	651.4	638.6	616.1	612.9
7.5°	973.9	933.8	834.3	738.1	645.0	568.0	499.0	446.0	397.9	377.1	389.9
10°	937.0	882.5	752.5	624.1	500.6	393.1	311.3	247.1	210.2	194.1	197.4
12.5°	901.7	832.7	667.5	515.0	364.2	242.3	176.5	142.8	131.6	130.0	126.8
15°	871.2	786.2	592.1	399.5	242.3	152.4	125.1	117.1	115.5	115.5	115.5
17.5°	837.5	738.1	510.2	293.6	158.8	118.7	110.7	109.1	107.5	107.5	107.5
20°	811.9	696.3	434.8	205.4	121.9	105.9	102.7	102.7	101.1	101.1	101.1
22.5°	784.6	653.0	361.0	150.8	104.3	97.9	94.7	93.1	93.1	91.5	91.5
25°	758.9	612.9	290.4	115.5	93.1	88.2	85.0	83.4	83.4	81.8	80.2
27.5°	742.9	580.8	227.8	97.9	83.4	80.2	77.0	73.8	70.6	69.0	69.0
30°	731.6	542.3	173.3	85.0	77.0	72.2	67.4	62.6	57.8	56.2	56.2
32.5°	715.6	511.8	133.2	77.0	69.0	64.2	57.8	52.9	48.1	44.9	44.9
35°	715.6	486.2	102.7	69.0	62.6	56.2	51.3	43.3	38.5	36.9	35.3
37.5°	726.8	457.3	85.0	64.2	57.8	51.3	44.9	36.9	32.1	30.5	30.5
40°	752.5	447.7	72.2	57.8	51.3	44.9	38.5	30.5	27.3	24.1	24.1
42.5°	805.5	450.9	64.2	54.6	46.5	40.1	32.1	25.7	22.5	20.9	20.9
45°	882.5	460.5	59.4	49.7	41.7	33.7	27.3	22.5	17.6	16.0	16.0
47.5°	990.0	491.0	52.9	44.9	36.9	28.9	22.5	17.6	14.4	12.8	12.8
50°	1118.3	543.9	49.7	40.1	33.7	24.1	17.6	12.8	9.6	9.6	9.6
52.5°	1269.1	596.9	44.9	36.9	28.9	20.9	14.4	9.6	8.0	6.4	6.4
55°	1395.9	643.4	40.1	33.7	24.1	16.0	11.2	8.0	6.4	4.8	4.8
57.5°	1561.2	710.8	33.7	28.9	19.3	12.8	8.0	6.4	3.2	3.2	3.2
60°	1782.6	791.0	28.9	24.1	14.4	9.6	6.4	3.2	3.2	1.6	1.6
62.5°	1877.2	726.8	25.7	19.3	11.2	6.4	4.8	3.2	1.6	1.6	1.6
65°	1773.0	593.7	20.9	14.4	8.0	4.8	3.2	1.6	1.6	0.0	0.0
67.5°	*1529.1*	*438.0*	*17.6*	*9.6*	*6.4*	*3.2*	*1.6*	*0.0*	*0.0*	*0.0*	*0.0*
70°	1246.7	324.1	12.8	6.4	3.2	3.2	1.6	0.0	0.0	0.0	0.0
72.5°	863.2	195.7	9.6	4.8	3.2	1.6	1.6	0.0	0.0	0.0	0.0
75°	335.3	77.0	8.0	4.8	3.2	1.6	0.0	0.0	0.0	0.0	0.0
77.5°	94.7	27.3	6.4	3.2	3.2	1.6	1.6	1.6	0.0	0.0	0.0
80°	38.5	14.4	4.8	3.2	3.2	3.2	1.6	1.6	0.0	0.0	0.0
82.5°	24.1	8.0	3.2	1.6	1.6	1.6	1.6	0.0	0.0	0.0	0.0
85°	16.0	4.8	3.2	1.6	1.6	0.0	0.0	0.0	0.0	1.6	1.6
87.5°	3.2	3.2	1.6	1.6	1.6	1.6	0.0	0.0	0.0	0.0	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

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

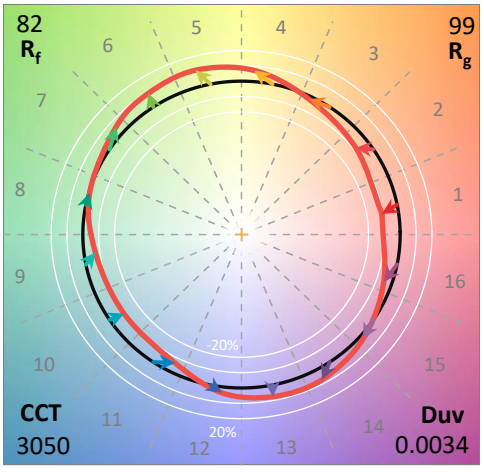
Test Information

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

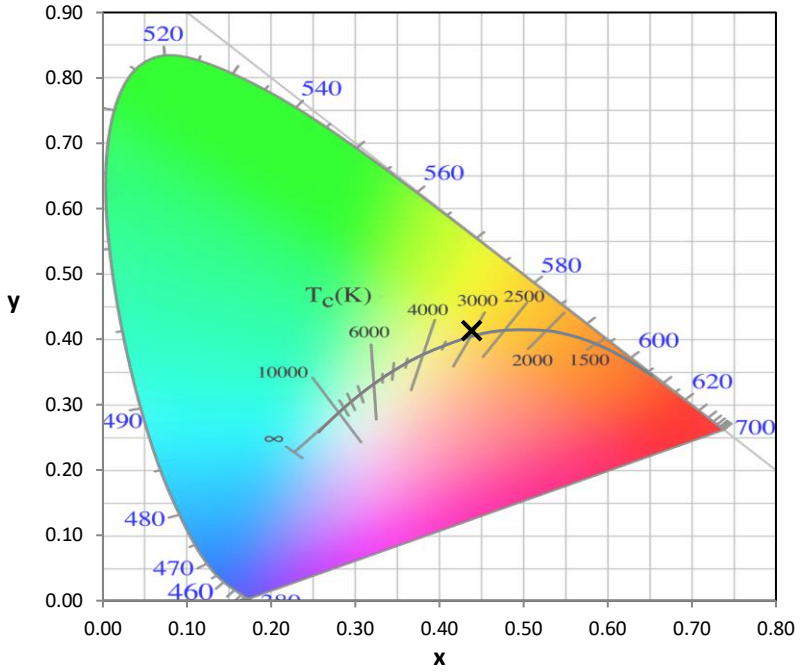
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

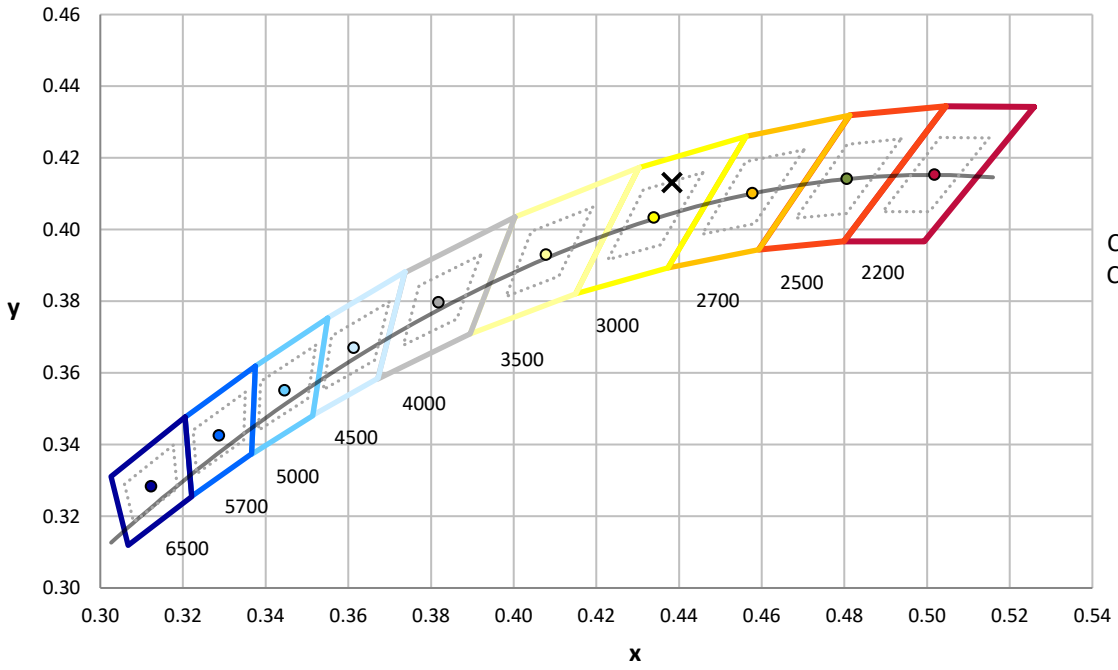
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

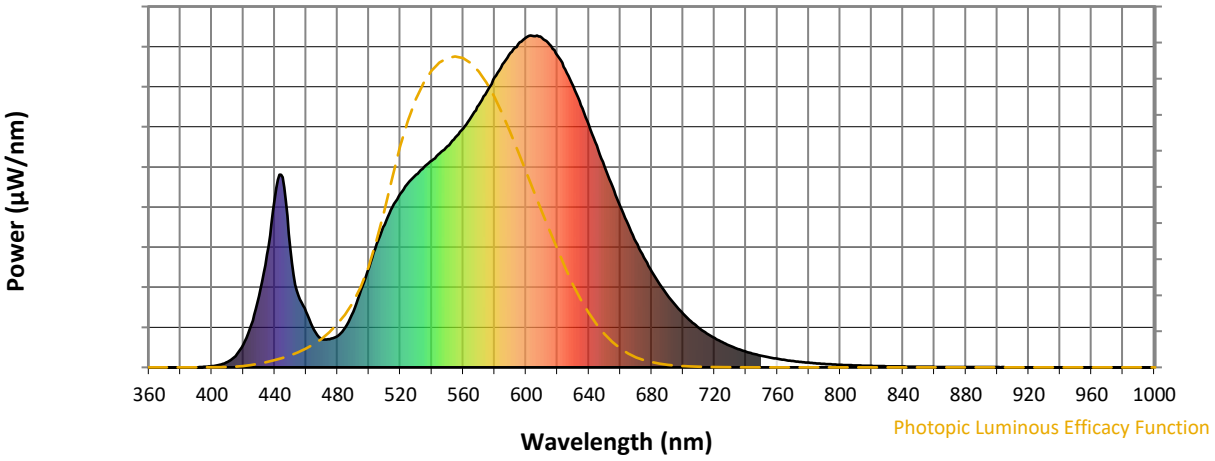


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

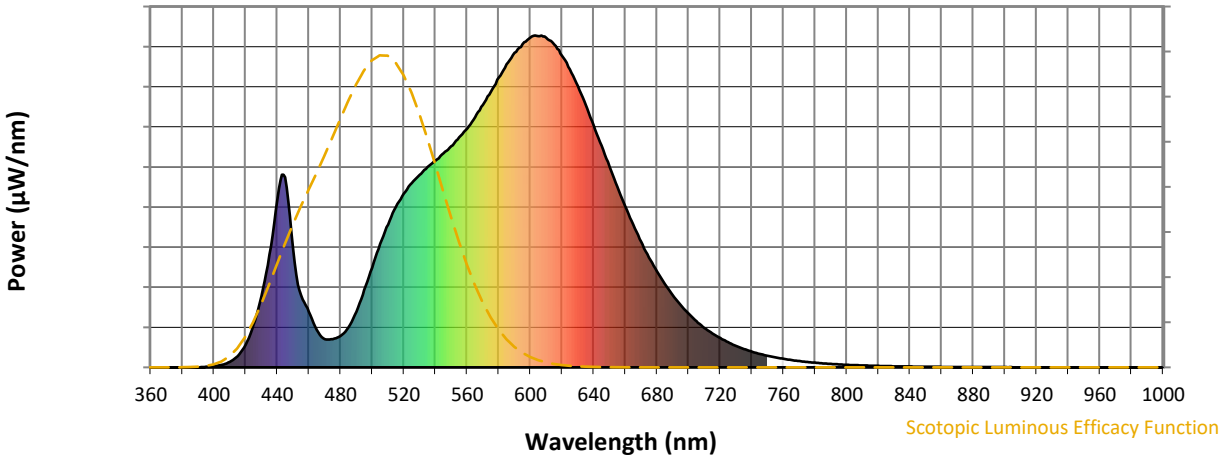


Photopic Lumens: NR

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

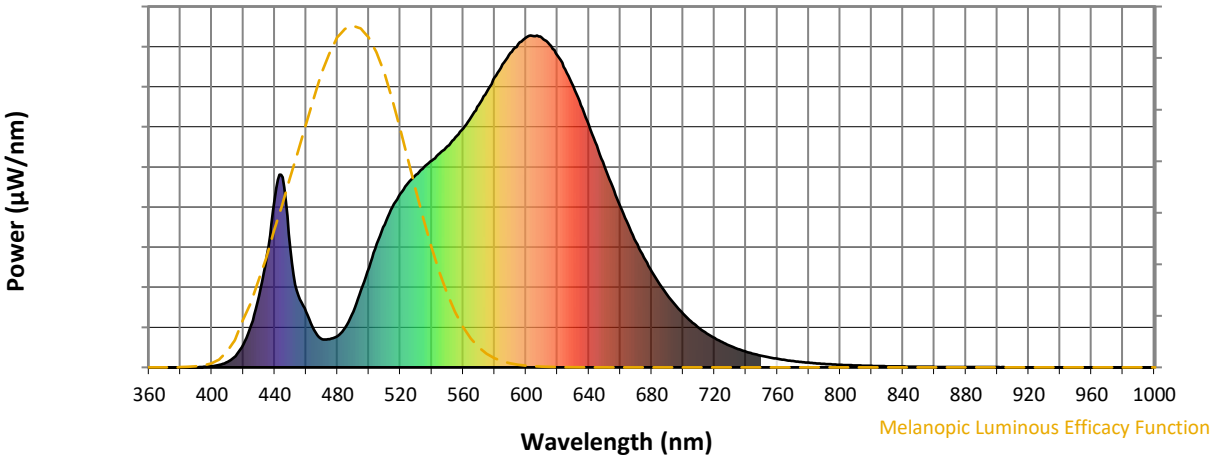


Scotopic Lumens: NR **S/P: 1.27**

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			

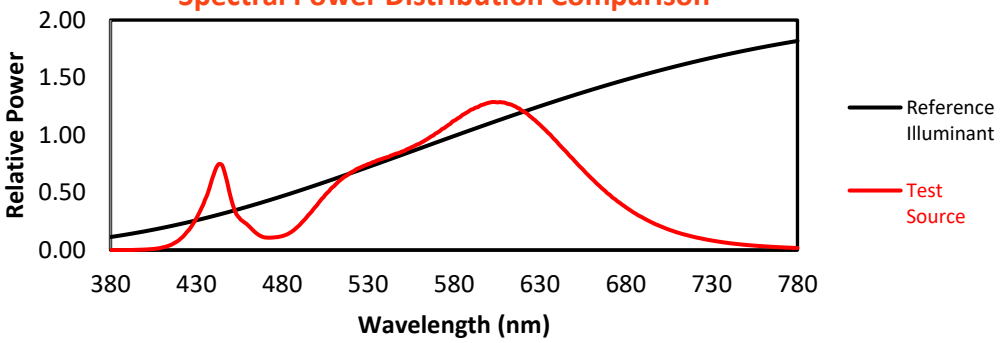
REPORT NUMBER: SP1-2408-195-9

TM-30-18

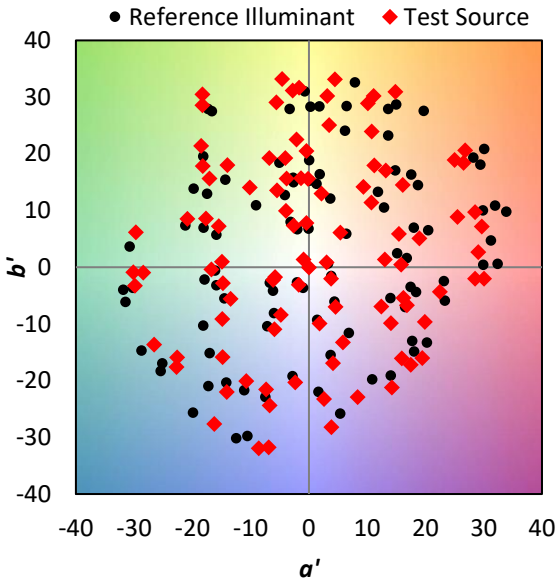
Summary

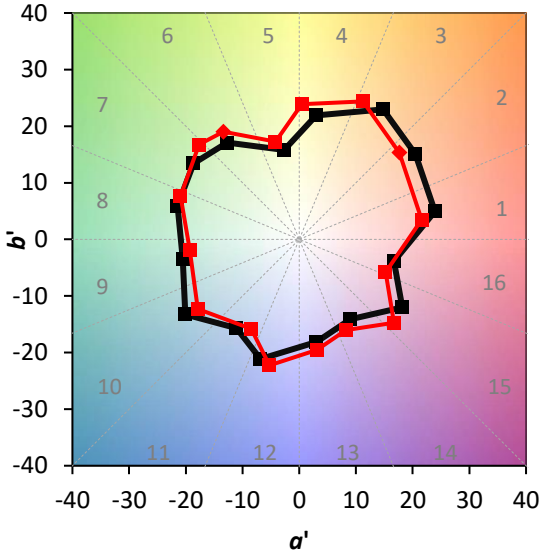
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

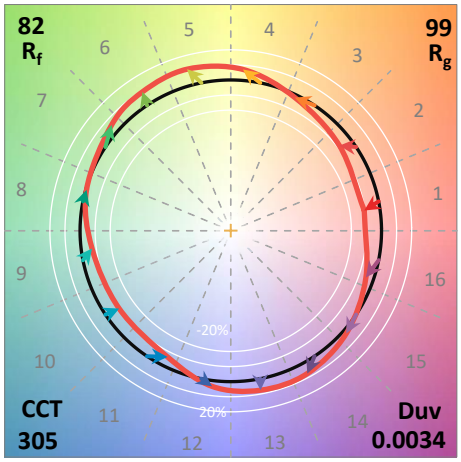
Spectral Power Distribution Comparison

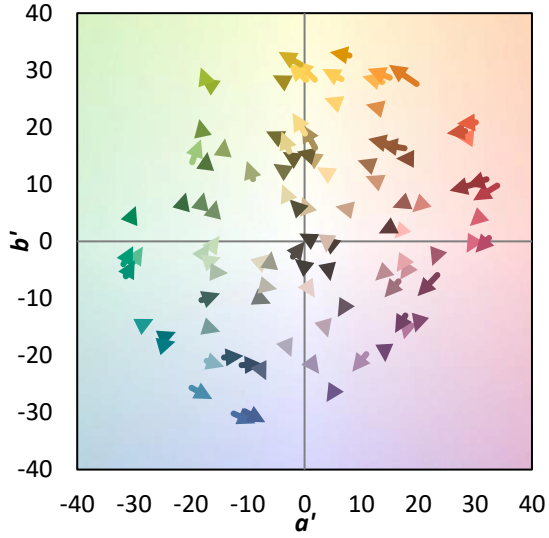


Color Vector Graphics







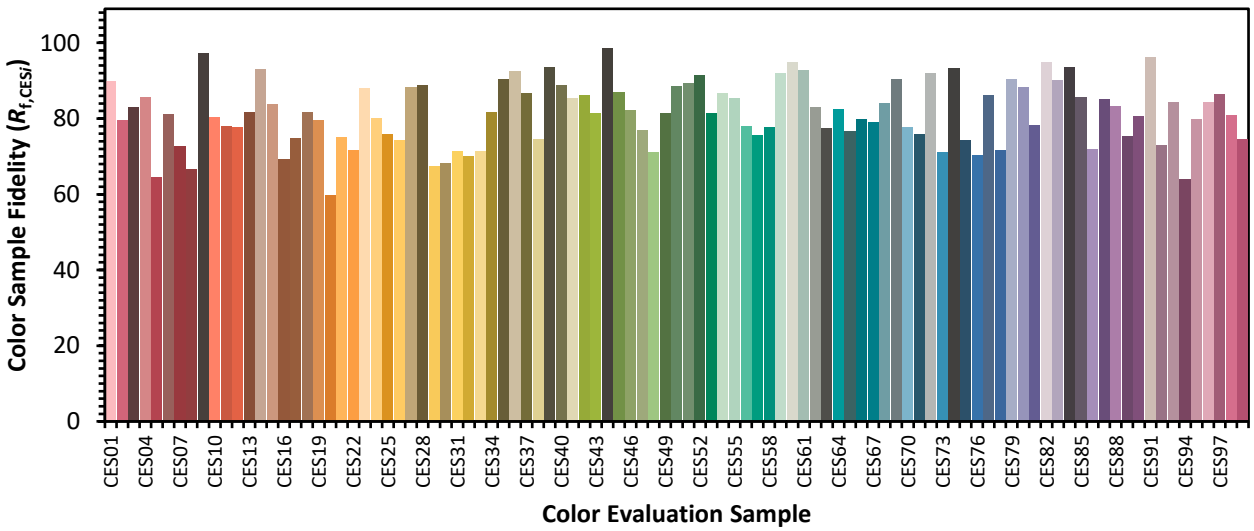


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

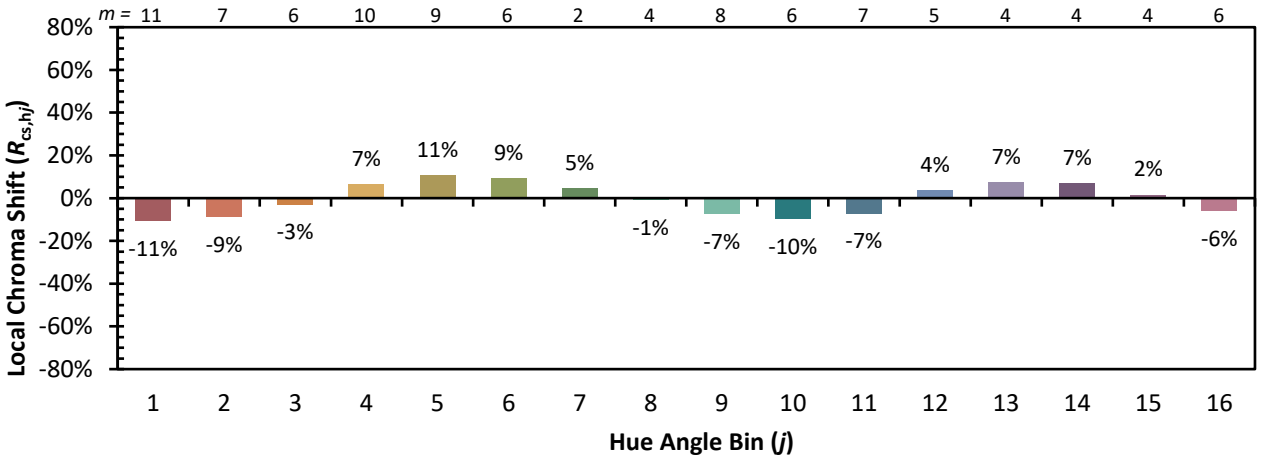
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

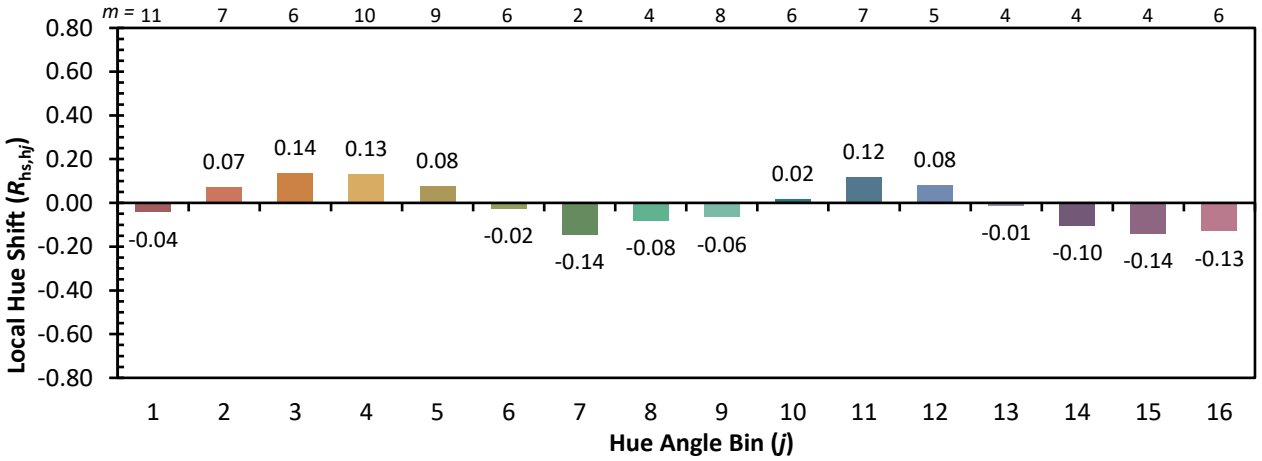


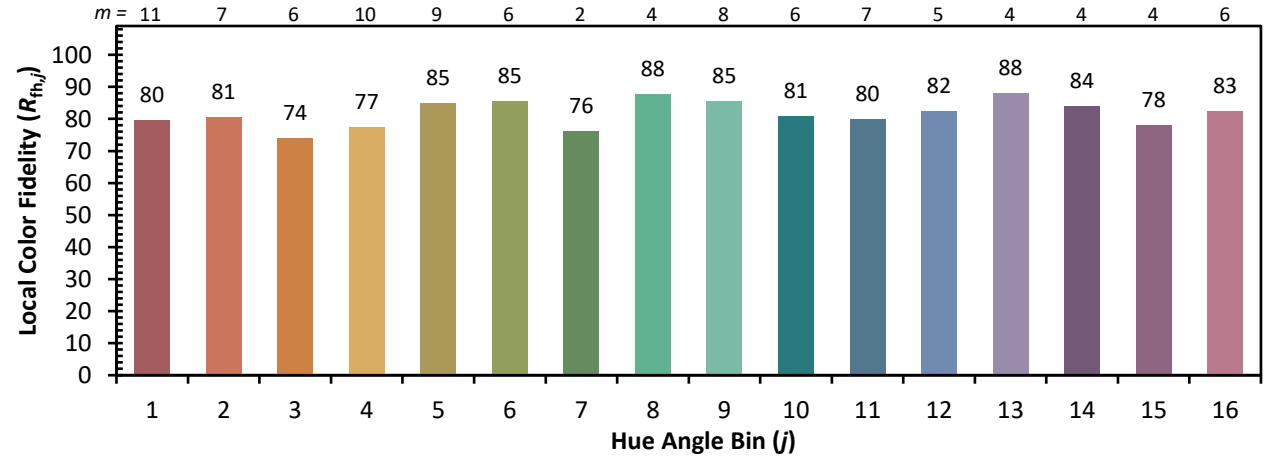
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



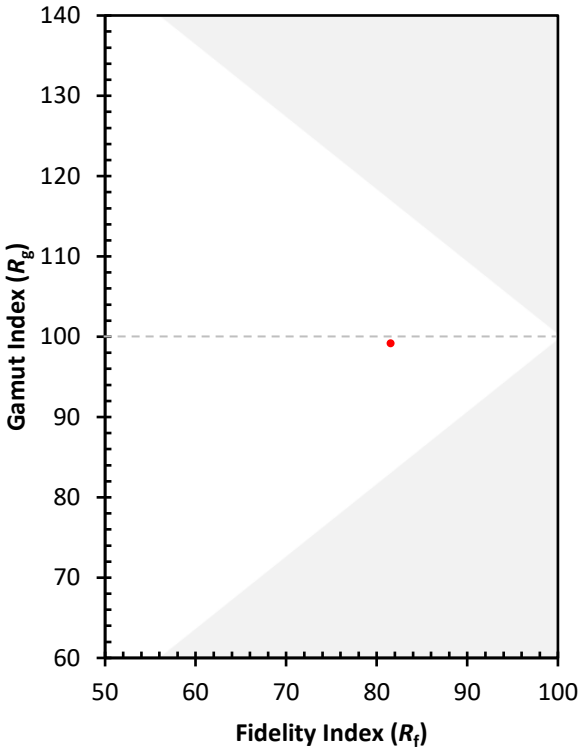


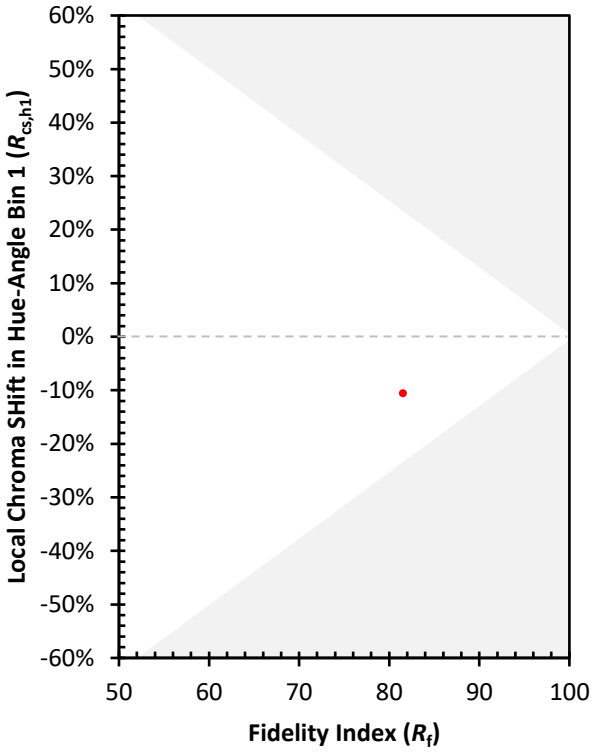


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)