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: P438632

Luminaire Tested: **ISW-SA1D-830-U-T4W-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:	P438632
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-074-13)
Test Lab:	INNOVATION CENTER
Issue Date:	12/10/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	ISW-SA1D-830-U-T4W-HSS
Description:	IMPACT ELITE LED WEDGE LUMINAIRE
	(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3305 lumens
Efficiency:	N/A
Efficacy:	73.1 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B0 - U0 - G1

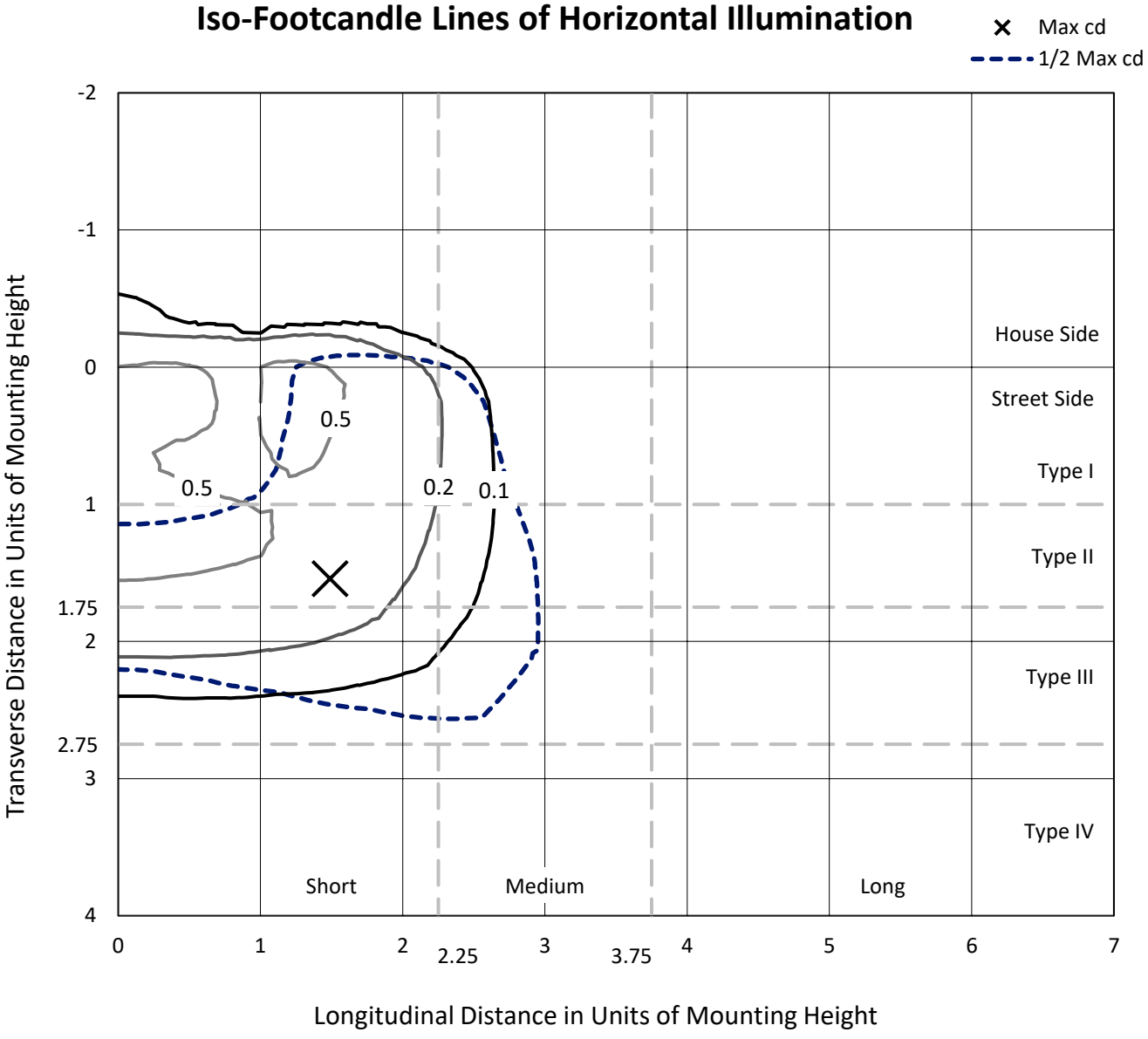
Input Watts (W):	45.2
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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

Scaled Data Report

REPORT NUMBER: P438632
CATALOG NUMBER: ISW-SA1D-830-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination



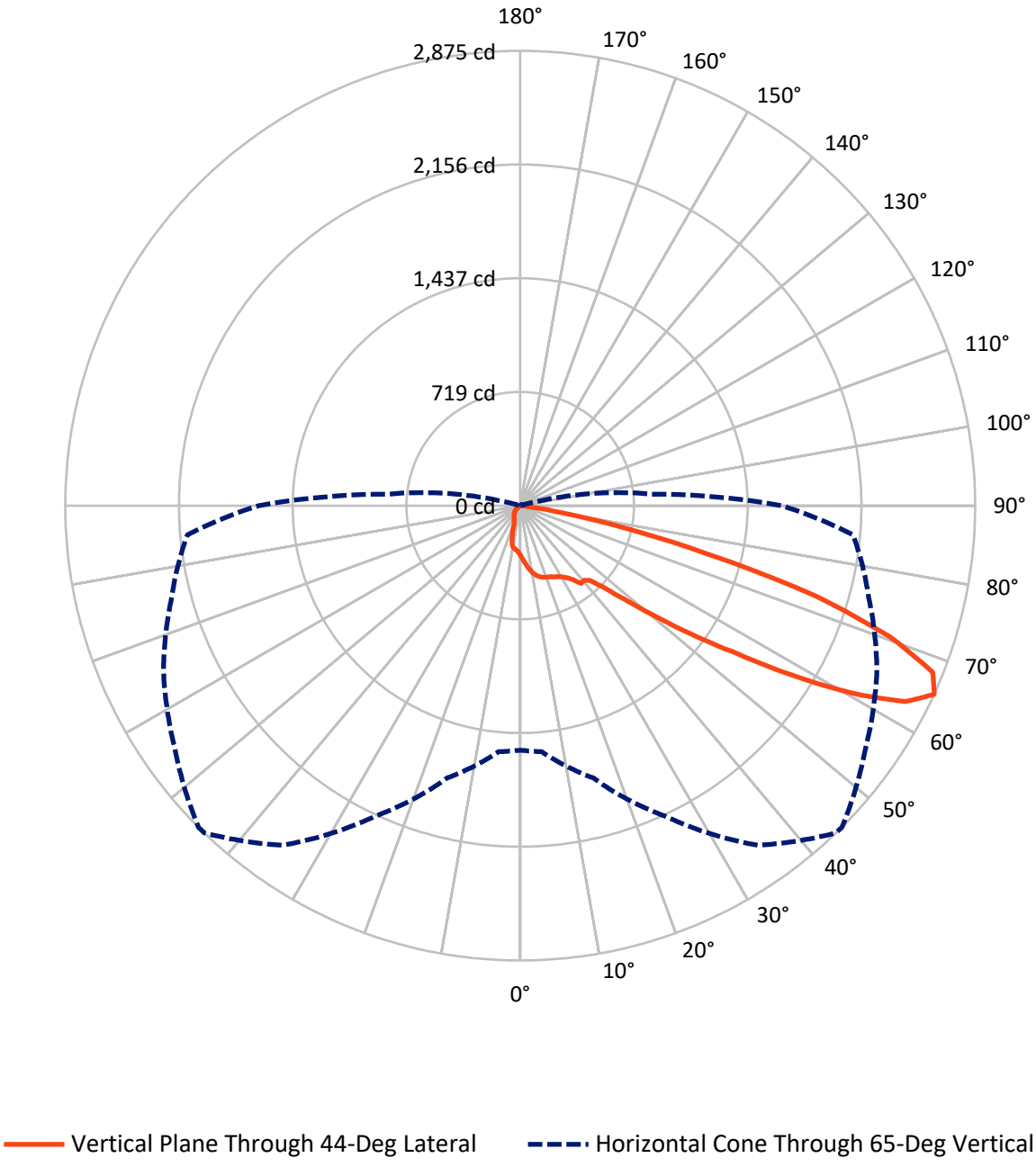
Based on 25 foot mounting height. Maximum calculated value = 0.7 fc
Type III - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P438632
CATALOG NUMBER: ISW-SA1D-830-U-T4W-HSS

Luminous Intensity Polar Plot



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

Scaled Data Report

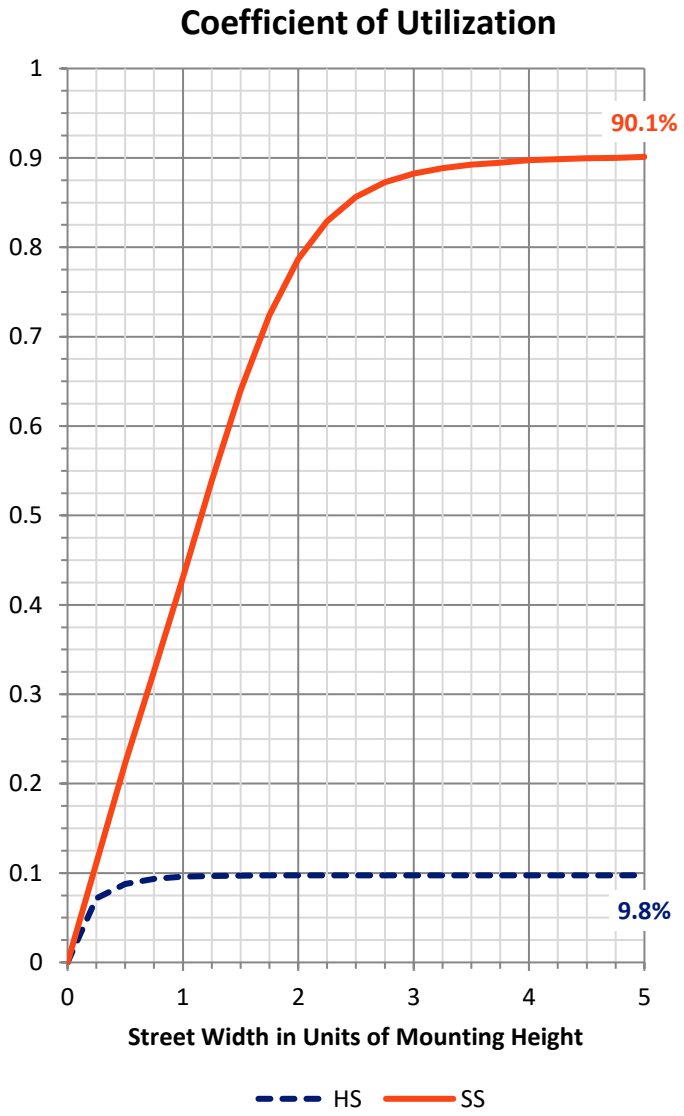
REPORT NUMBER: P438632
CATALOG NUMBER: ISW-SA1D-830-U-T4W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	325.1	0.0	325.1
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	2979.9	0.0	2979.9
	% Fixture	90.2	0.0	90.2
Total	Lumens	3305.0	0.0	3305.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.9	1.0
10°-20°	96.2	2.9
20°-30°	154.0	4.7
30°-40°	228.7	6.9
40°-50°	417.0	12.6
50°-60°	874.2	26.5
60°-70°	1112.7	33.7
70°-80°	373.5	11.3
80°-90°	16.7	0.5
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°	3305.0	100.0
0°-180°	3305.0	100.0



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

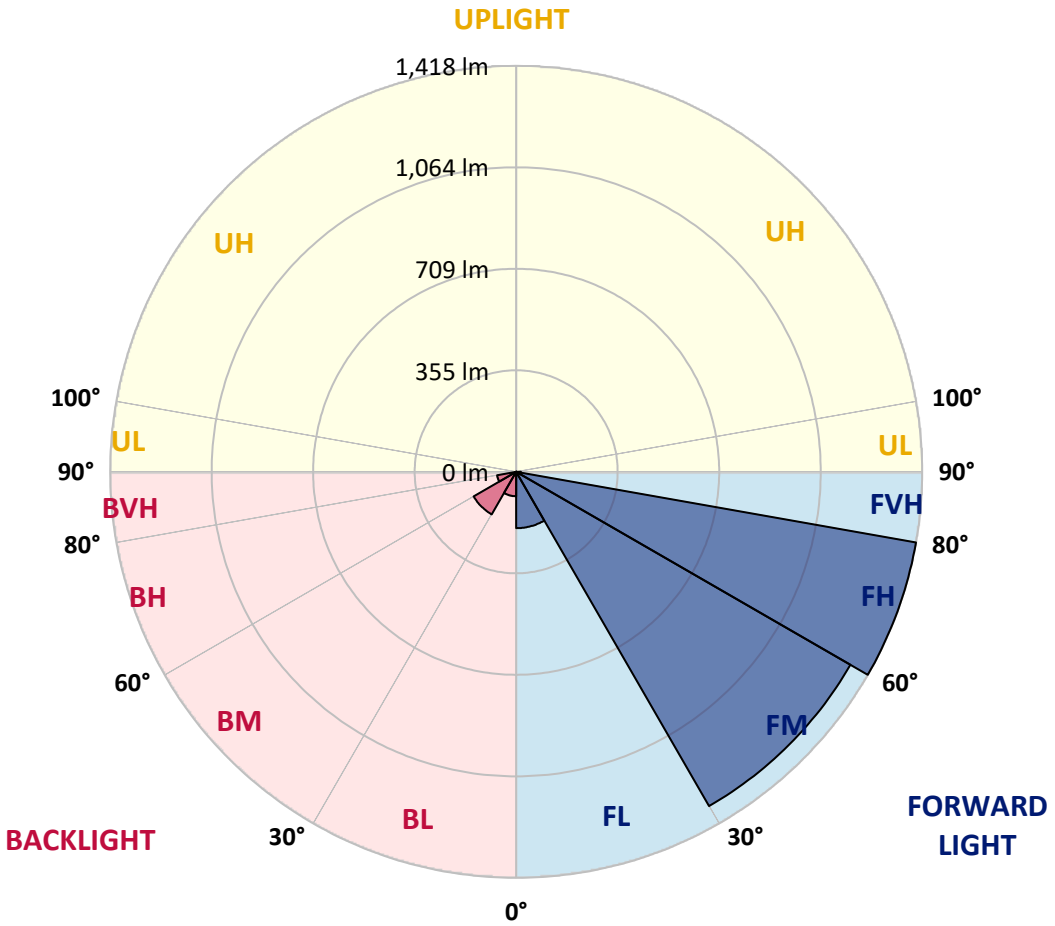
Scaled Data Report

REPORT NUMBER: P438632
CATALOG NUMBER: ISW-SA1D-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°)	196.8	6.0			
FM	(30°-60°)	1348.4	40.8			
FH	(60°-80°)	1418.4	42.9			G1/1800
FVH	(80°-90°)	16.3	0.5			G1/100
BL	(0°-30°)	85.4	2.6	B0/110		
BM	(30°-60°)	171.5	5.2	B0/220		
BH	(60°-80°)	67.8	2.1	B0/110		G0/110
BVH	(80°-90°)	0.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1
Type III Short



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

Scaled Data Report

REPORT NUMBER: P438632
CATALOG NUMBER: ISW-SA1D-830-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	314.8	314.8	314.8	314.8	314.8	*314.8*	314.8	314.8	314.8	314.8	314.8
2.5°	354.8	356.4	350.0	351.6	348.4	*342.0*	340.4	335.6	329.2	324.4	319.6
5°	401.1	399.5	396.3	389.9	381.9	*372.3*	369.2	359.6	348.4	335.6	326.0
7.5°	439.5	439.5	434.7	428.3	415.5	*402.7*	399.5	386.7	370.7	353.2	335.6
10°	473.0	471.4	466.6	458.6	442.7	*431.5*	426.7	410.7	391.5	372.3	351.6
12.5°	498.6	498.6	492.2	481.0	463.4	*452.2*	449.1	434.7	415.5	393.1	364.4
15°	513.0	511.4	506.6	492.2	479.4	*466.6*	465.0	452.2	436.3	412.3	381.9
17.5°	513.0	514.6	506.6	498.6	487.4	*476.2*	474.6	465.0	449.1	428.3	396.3
20°	506.6	506.6	500.2	493.8	487.4	*482.6*	481.0	474.6	461.8	444.3	412.3
22.5°	498.6	497.0	495.4	490.6	489.0	*487.4*	489.0	485.8	477.8	458.6	428.3
25°	497.0	495.4	492.2	489.0	490.6	*498.6*	498.6	500.2	492.2	476.2	447.5
27.5°	503.4	503.4	498.6	493.8	497.0	*508.2*	508.2	513.0	508.2	497.0	468.2
30°	530.6	524.2	516.2	506.6	509.8	*522.6*	524.2	533.8	533.8	525.8	501.8
32.5°	567.3	560.9	540.1	527.4	527.4	*543.3*	543.3	559.3	573.7	557.7	521.0
35°	596.1	592.9	568.9	552.9	557.7	*572.1*	576.9	602.5	615.3	575.3	530.6
37.5°	692.0	687.2	640.8	581.7	584.9	*624.8*	628.0	639.2	628.0	583.3	549.7
40°	819.8	823.0	775.1	677.6	602.5	*620.0*	620.0	639.2	645.6	618.4	596.1
42.5°	1013.2	994.0	946.0	813.4	680.8	*645.6*	647.2	674.4	707.9	692.0	695.2
45°	1181.0	1166.6	1115.4	987.6	807.0	*730.3*	723.9	759.1	824.6	839.0	875.7
47.5°	1329.6	1315.2	1292.8	1173.0	995.6	*878.9*	855.0	890.1	1003.6	1078.7	1104.3
50°	1508.6	1511.8	1460.6	1391.9	1201.7	*1078.7*	1072.3	1073.9	1252.9	1315.2	1352.0
52.5°	1735.5	1730.7	1641.2	1604.4	1487.8	*1340.8*	1304.0	1326.4	1503.8	1548.5	1609.2
55°	1896.9	1892.1	1849.0	1842.6	1804.2	*1631.6*	1622.0	1620.4	1780.2	1799.4	1871.3
57.5°	1991.2	1999.2	2029.5	2111.0	2143.0	*2018.3*	1991.2	1938.4	2027.9	2023.1	2101.4
60°	2007.2	2019.9	2106.2	2293.2	2472.2	*2405.1*	2368.3	2230.9	2254.9	2214.9	2262.8
62.5°	1877.7	1914.5	2067.9	2331.6	2638.4	*2727.9*	2697.5	2485.0	2429.0	2345.9	2285.2
65°	*1545.3*	*1561.3*	*1781.8*	*2165.4*	*2620.8*	*2874.9*	*2874.9*	*2665.6*	*2486.6*	*2282.0*	*2111.0*
67.5°	1067.5	1075.5	1344.0	1746.7	2352.3	*2811.0*	2835.0	2662.4	2385.9	2031.1	1721.1
70°	605.7	650.4	813.4	1220.9	1853.7	*2475.4*	2501.0	2422.7	1997.6	1505.4	1128.2
72.5°	252.5	281.3	396.3	711.1	1260.9	*1949.6*	1994.4	1920.9	1492.6	918.9	533.8
75°	78.3	81.5	131.0	310.0	688.8	*1224.1*	1299.2	1296.0	891.7	429.9	217.3
77.5°	43.1	44.7	62.3	126.2	302.0	*653.6*	699.9	661.6	441.1	185.4	67.1
80°	20.8	22.4	33.6	60.7	132.6	*244.5*	287.6	266.9	153.4	87.9	22.4
82.5°	6.4	8.0	16.0	27.2	52.7	*57.5*	57.5	102.3	78.3	57.5	11.2
85°	0.0	0.0	4.8	9.6	9.6	*9.6*	9.6	22.4	36.8	35.2	4.8
87.5°	0.0	0.0	0.0	0.0	1.6	*1.6*	1.6	1.6	1.6	3.2	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

Scaled Data Report

REPORT NUMBER: P438632
CATALOG NUMBER: ISW-SA1D-830-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	314.8	314.8	314.8	314.8	314.8	314.8	314.8	314.8	314.8	314.8	314.8
2.5°	316.4	314.8	308.4	302.0	298.8	295.6	292.4	289.2	289.2	290.8	289.2
5°	319.6	314.8	305.2	295.6	289.2	284.5	278.1	276.5	274.9	276.5	276.5
7.5°	327.6	321.2	306.8	292.4	282.9	274.9	270.1	268.5	265.3	265.3	265.3
10°	340.4	329.2	310.0	294.0	281.3	270.1	255.7	239.7	230.1	223.7	218.9
12.5°	353.2	340.4	314.8	295.6	281.3	249.3	214.1	183.8	167.8	159.8	158.2
15°	367.6	351.6	324.4	302.0	263.7	204.6	156.6	131.0	124.6	124.6	123.1
17.5°	378.7	364.4	332.4	303.6	231.7	153.4	118.3	110.3	111.9	115.1	115.1
20°	396.3	378.7	343.6	289.2	179.0	115.1	103.9	105.5	107.1	108.7	110.3
22.5°	412.3	393.1	356.4	257.3	131.0	99.1	99.1	100.7	102.3	103.9	105.5
25°	431.5	413.9	369.2	210.9	100.7	91.1	92.7	95.9	97.5	99.1	99.1
27.5°	453.8	434.7	369.2	166.2	87.9	84.7	84.7	87.9	89.5	92.7	92.7
30°	484.2	463.4	359.6	123.1	81.5	78.3	76.7	79.9	81.5	84.7	84.7
32.5°	503.4	490.6	338.8	92.7	75.1	71.9	70.3	70.3	71.9	75.1	75.1
35°	522.6	516.2	306.8	79.9	70.3	67.1	63.9	60.7	60.7	60.7	60.7
37.5°	552.9	562.5	260.5	73.5	67.1	62.3	57.5	52.7	49.5	47.9	46.3
40°	615.3	623.2	214.1	68.7	62.3	57.5	49.5	43.1	38.4	35.2	35.2
42.5°	712.7	706.3	163.0	65.5	57.5	51.1	41.5	35.2	28.8	25.6	25.6
45°	882.1	810.2	119.9	60.7	54.3	46.3	35.2	27.2	20.8	19.2	19.2
47.5°	1089.9	930.1	91.1	57.5	49.5	40.0	27.2	20.8	16.0	14.4	14.4
50°	1313.6	1053.1	75.1	52.7	44.7	33.6	22.4	14.4	11.2	11.2	11.2
52.5°	1524.5	1136.2	62.3	47.9	38.4	27.2	16.0	11.2	9.6	9.6	9.6
55°	1721.1	1187.4	51.1	41.5	32.0	20.8	12.8	9.6	8.0	6.4	6.4
57.5°	1855.3	1179.4	41.5	33.6	24.0	14.4	9.6	8.0	6.4	4.8	4.8
60°	1901.7	1109.1	32.0	27.2	17.6	11.2	8.0	6.4	4.8	3.2	3.2
62.5°	1836.2	970.0	25.6	20.8	12.8	9.6	6.4	4.8	3.2	1.6	1.6
65°	*1652.4*	*834.2*	*19.2*	*14.4*	*9.6*	*6.4*	*4.8*	*3.2*	*1.6*	*0.0*	*0.0*
67.5°	1315.2	647.2	16.0	9.6	6.4	4.8	3.2	1.6	0.0	0.0	0.0
70°	823.0	405.9	12.8	6.4	4.8	3.2	1.6	0.0	0.0	0.0	0.0
72.5°	399.5	199.8	9.6	4.8	3.2	1.6	1.6	0.0	0.0	0.0	0.0
75°	148.6	65.5	8.0	4.8	1.6	1.6	0.0	0.0	0.0	0.0	0.0
77.5°	47.9	22.4	6.4	4.8	3.2	1.6	0.0	0.0	0.0	0.0	0.0
80°	17.6	9.6	3.2	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	8.0	4.8	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.2	3.2	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	1.6	1.6	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

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

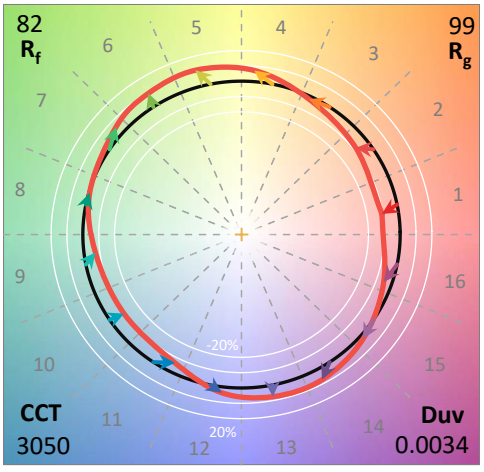
Test Information

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

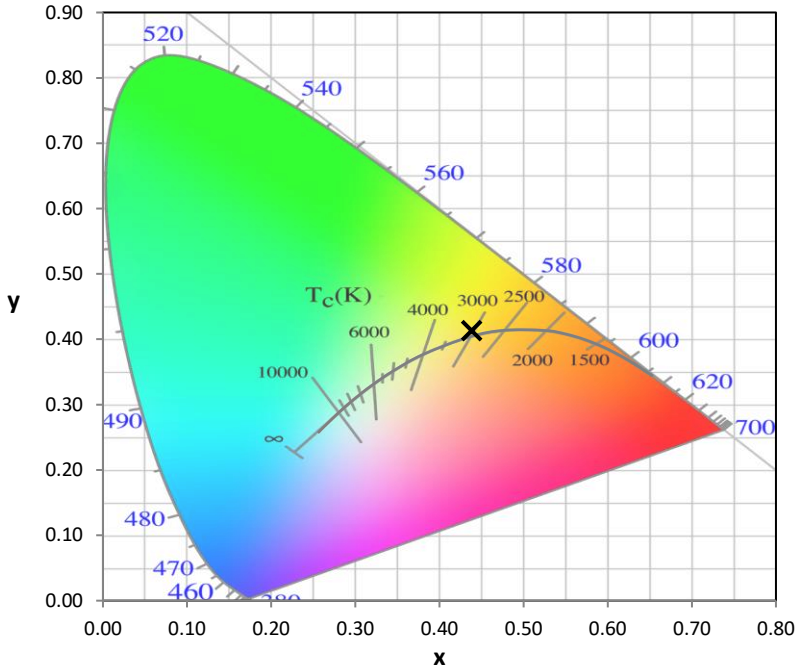
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

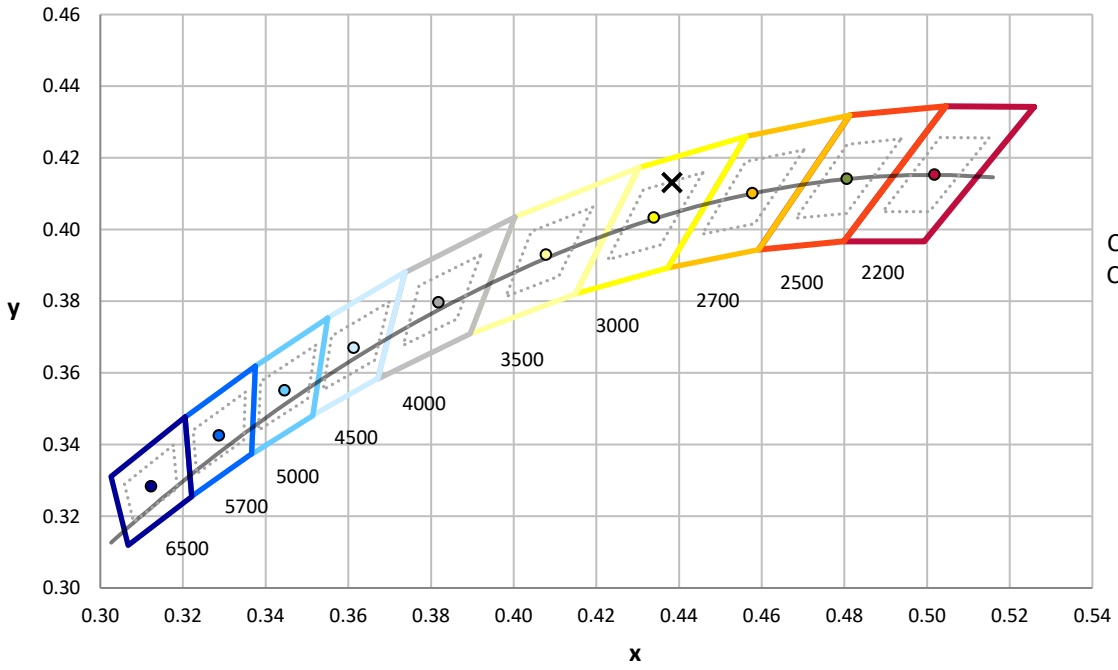
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

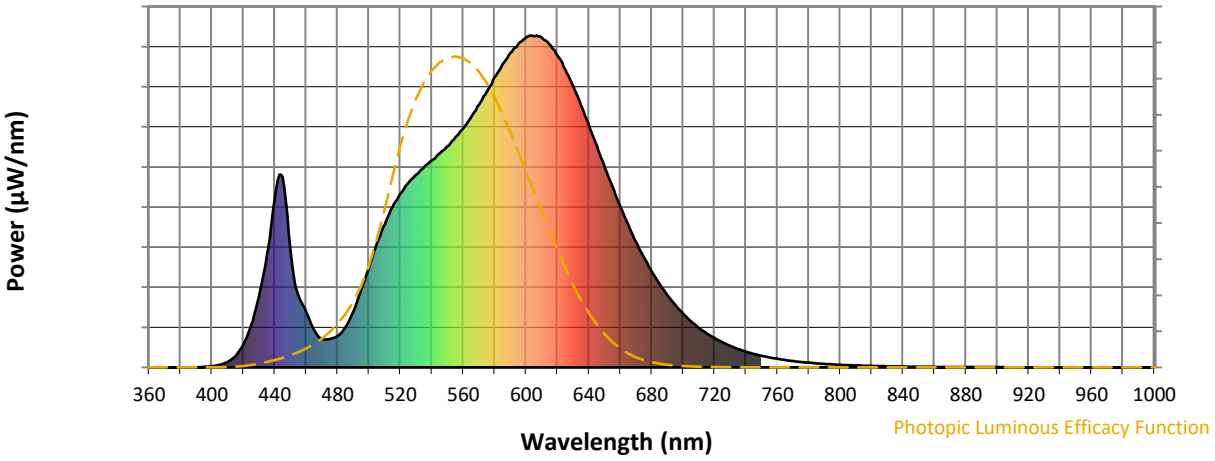


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

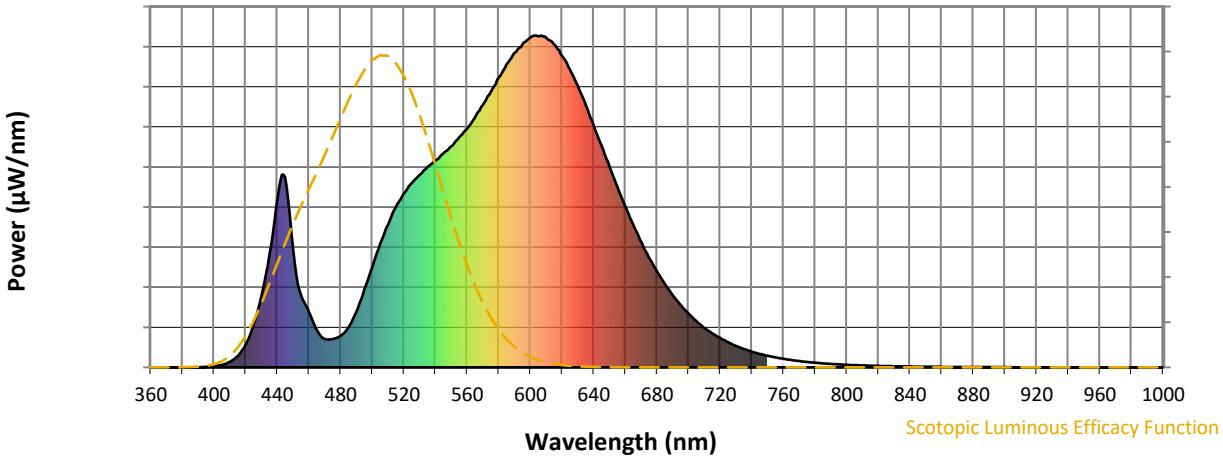


Photopic Lumens: NR

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

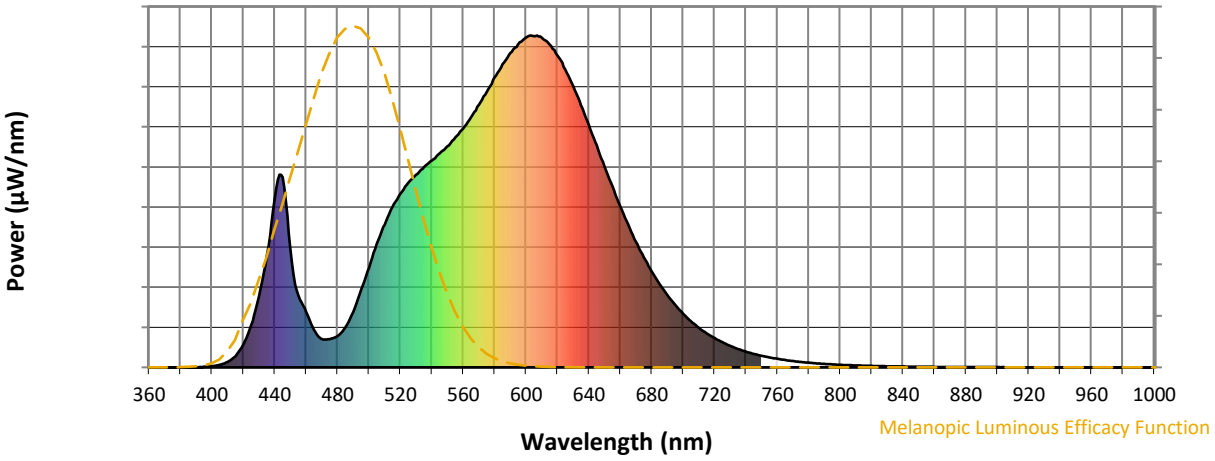


Scotopic Lumens: NR **S/P: 1.27**

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			

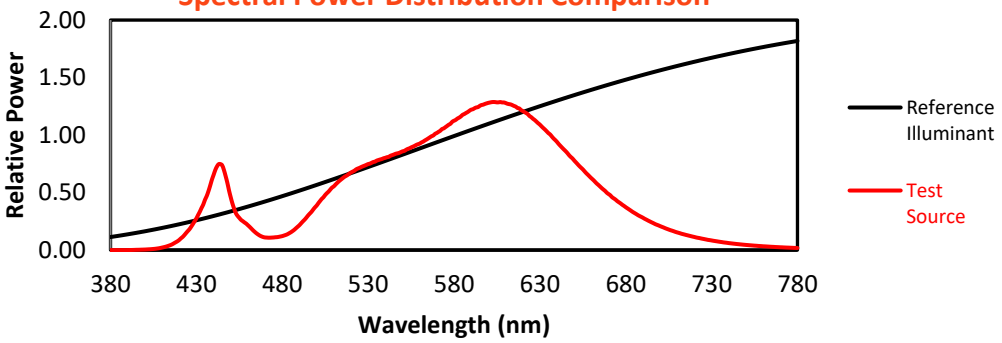
REPORT NUMBER: SP1-2408-195-9

TM-30-18

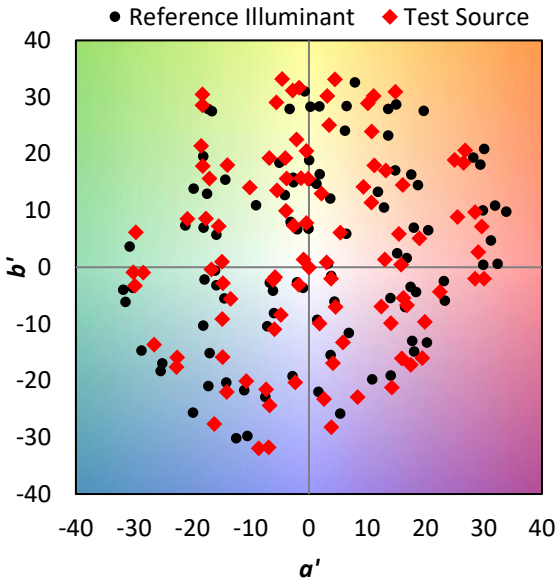
Summary

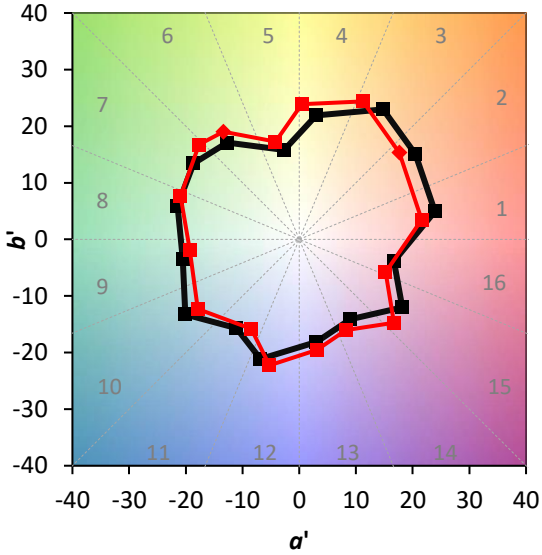
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

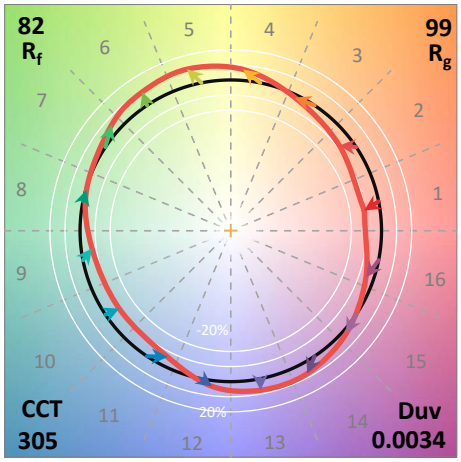
Spectral Power Distribution Comparison

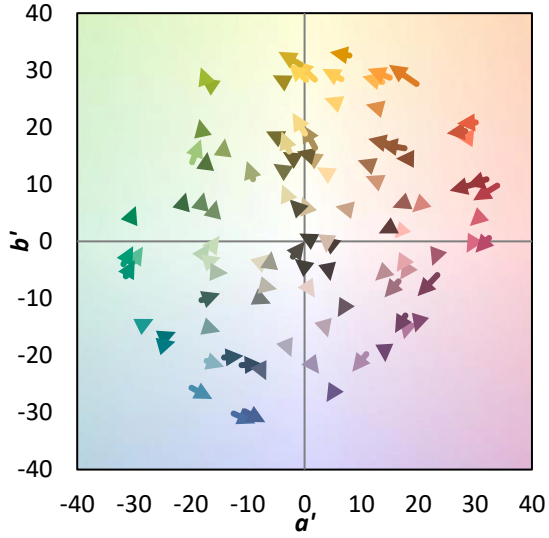


Color Vector Graphics







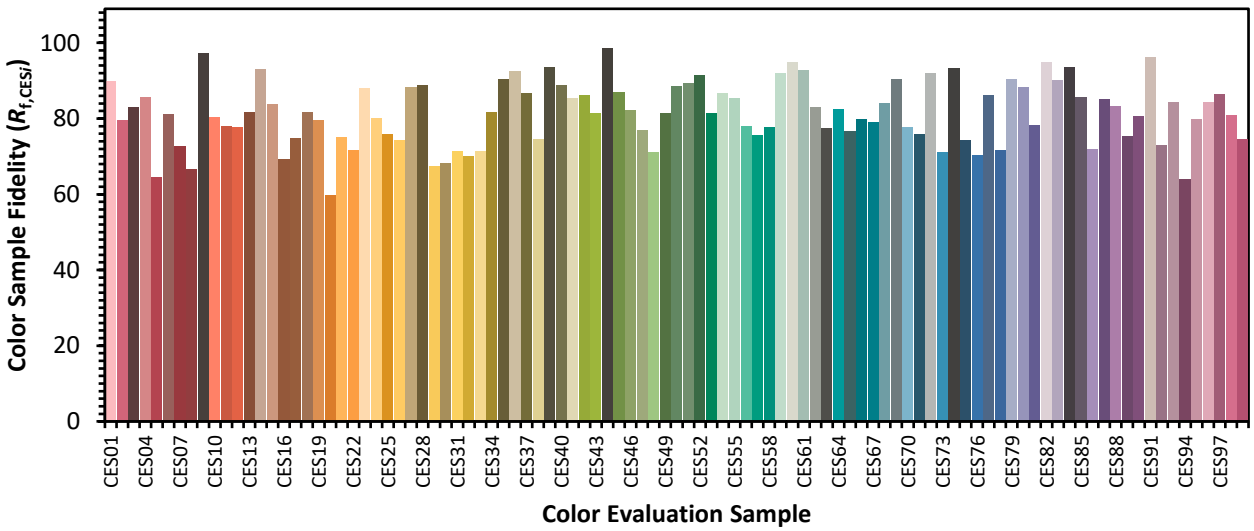


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

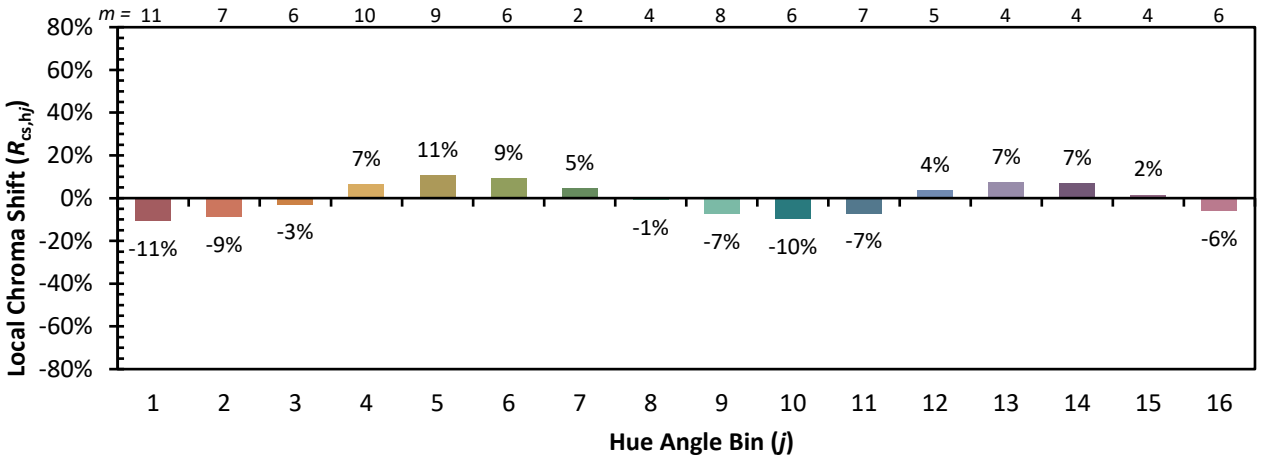
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

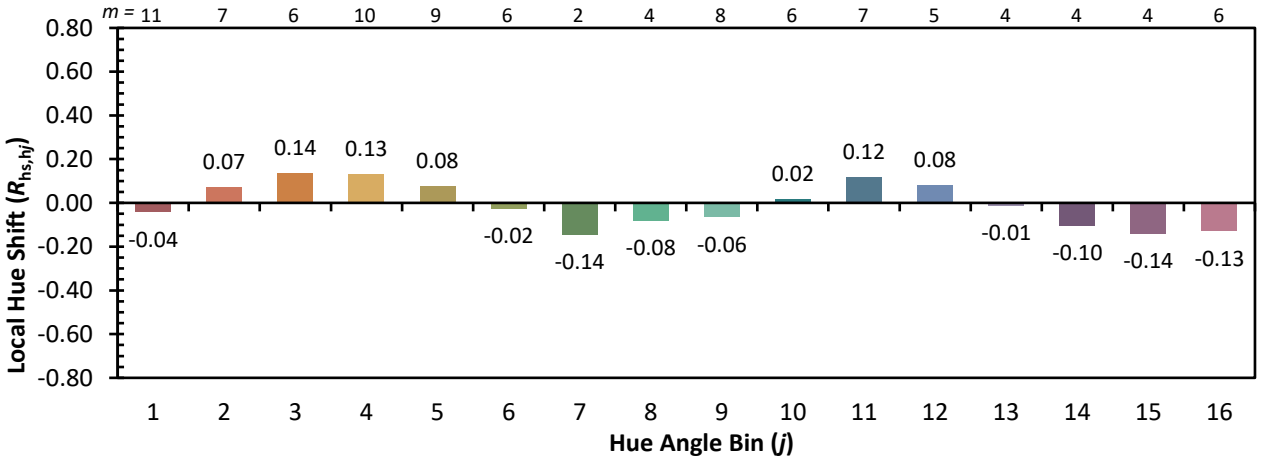


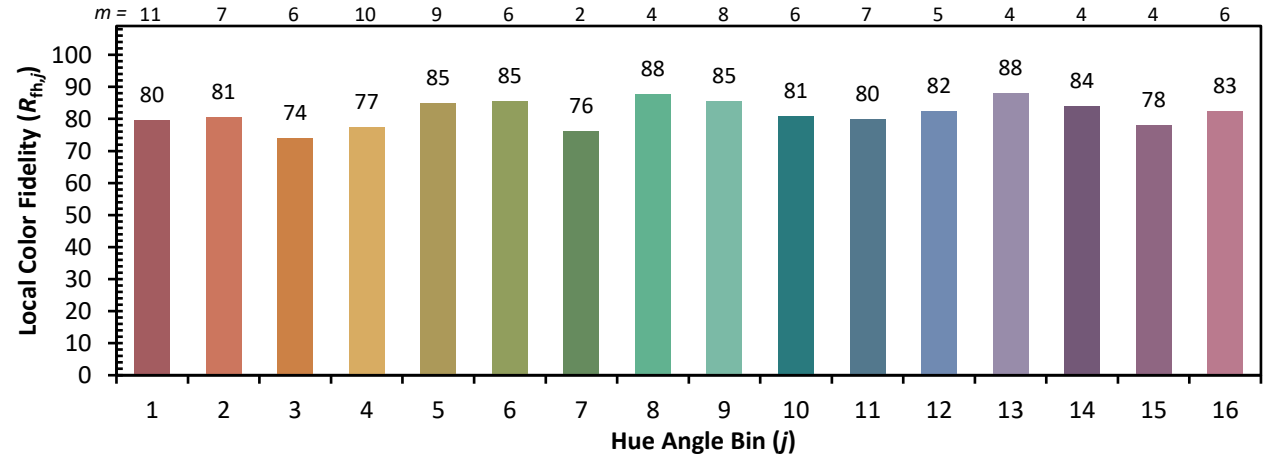
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



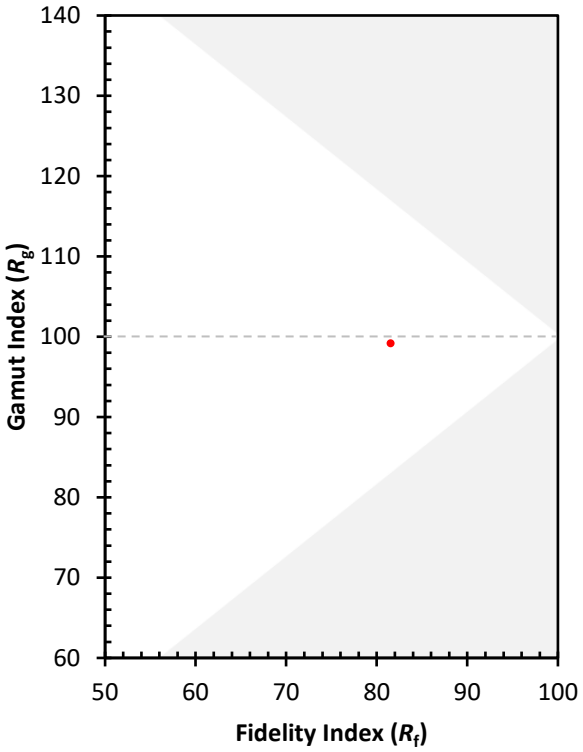


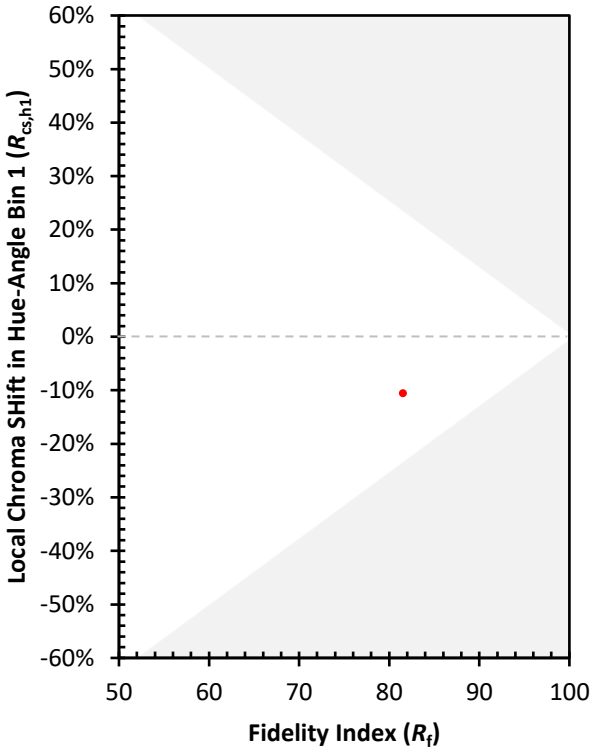


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)