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: P321779

Luminaire Tested: **GLEON-SA5D-830-U-T3R-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:	P321779
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA5D-830-U-T3R-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(5) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	23701 lumens
Efficiency:	N/A
Efficacy:	74.1 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B2 - U0 - G4

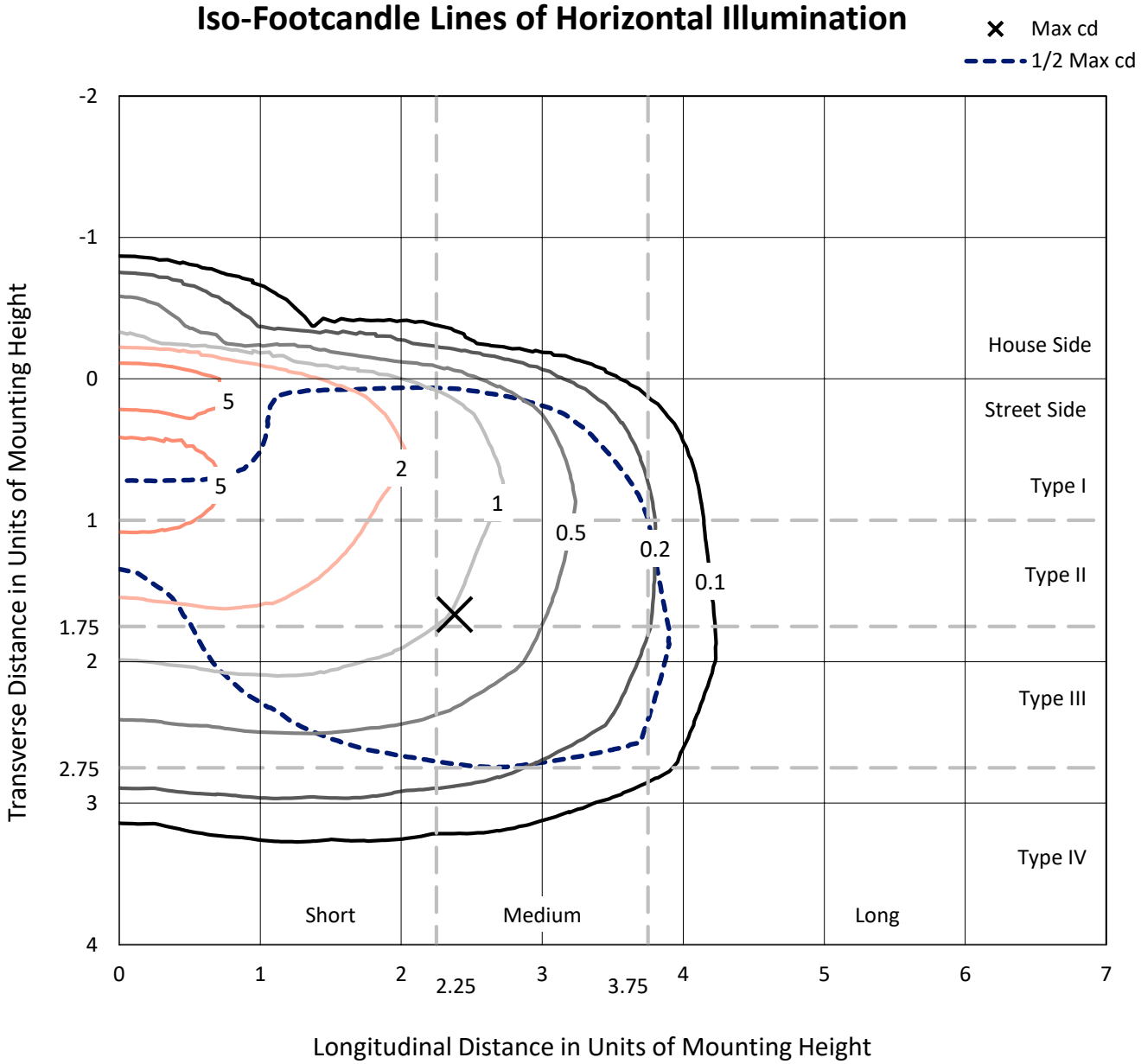
Input Watts (W):	320
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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

Scaled Data Report

REPORT NUMBER: P321779
CATALOG NUMBER: GLEON-SA5D-830-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination



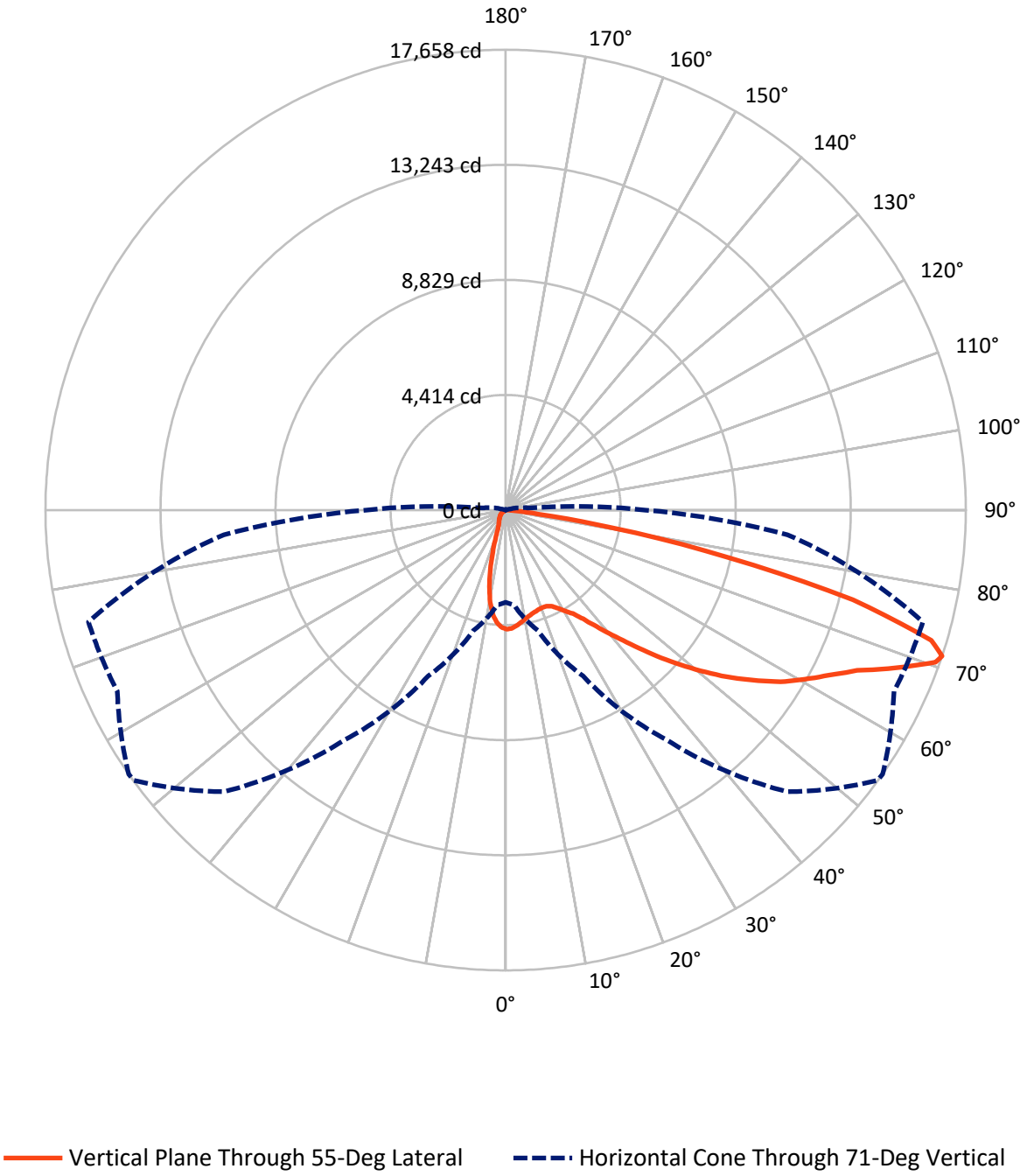
Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
Type III - Medium - N/A

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

Scaled Data Report

REPORT NUMBER: P321779
CATALOG NUMBER: GLEON-SA5D-830-U-T3R-HSS

Luminous Intensity Polar Plot



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

Scaled Data Report

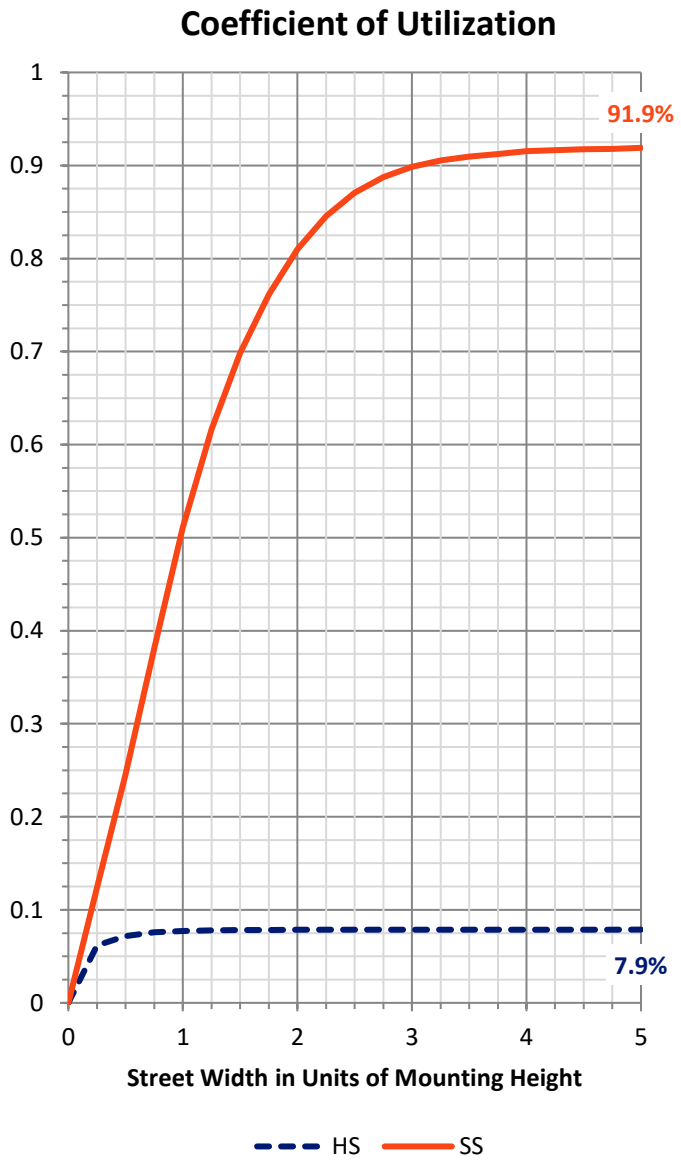
REPORT NUMBER: P321779
CATALOG NUMBER: GLEON-SA5D-830-U-T3R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1876.5	0.0	1876.5
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	21824.5	0.0	21824.5
	% Fixture	92.1	0.0	92.1
Total	Lumens	23701.0	0.0	23701.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.7	1.6
10°-20°	879.8	3.7
20°-30°	1413.9	6.0
30°-40°	2402.3	10.1
40°-50°	3728.7	15.7
50°-60°	5013.1	21.2
60°-70°	6132.7	25.9
70°-80°	3585.7	15.1
80°-90°	155.0	0.7
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°	23701.0	100.0
0°-180°	23701.0	100.0



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

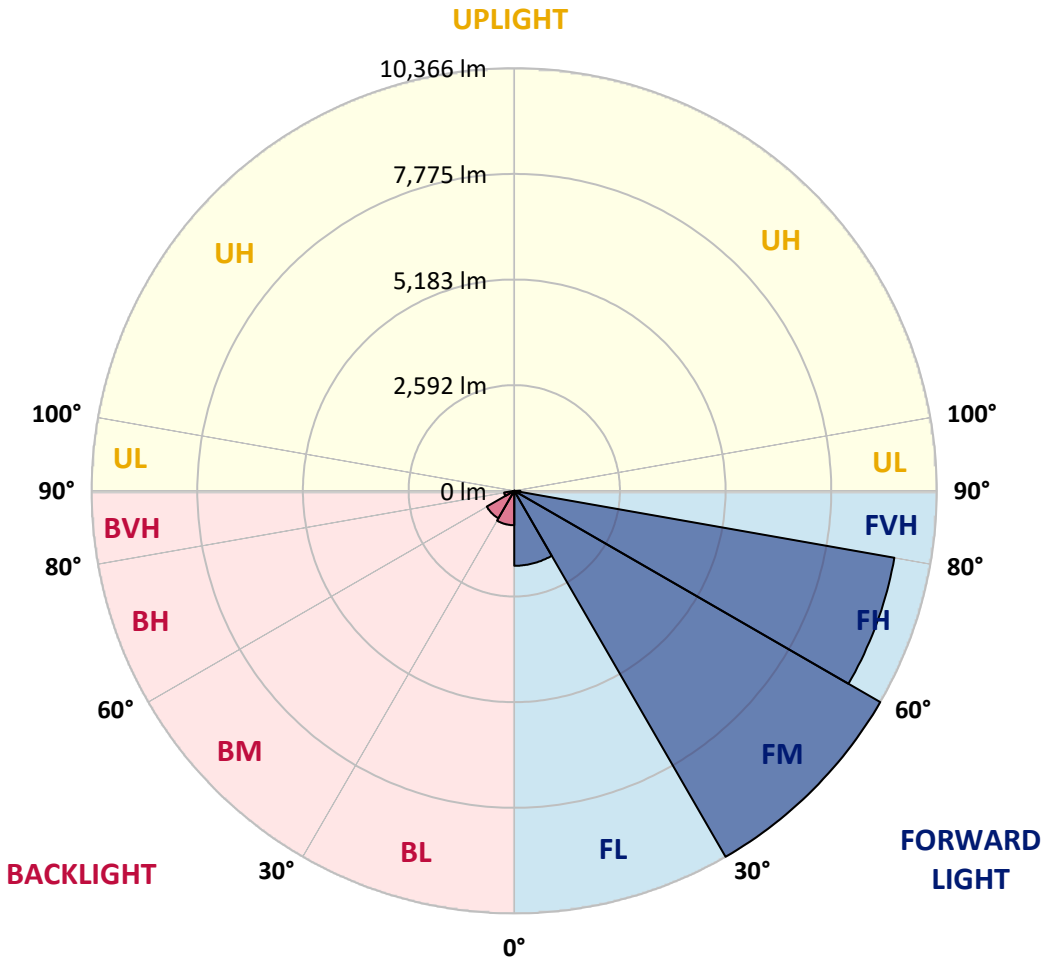
Scaled Data Report

REPORT NUMBER: P321779
CATALOG NUMBER: GLEON-SA5D-830-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1838.9	7.8			
FM	(30°-60°)	10366.1	43.7			
FH	(60°-80°)	9467.0	39.9			G4/12000
FVH	(80°-90°)	152.6	0.6			G2/225
BL	(0°-30°)	844.6	3.6	B2/1000		
BM	(30°-60°)	778.0	3.3	B1/1000		
BH	(60°-80°)	251.4	1.1	B1/500		G1/500
BVH	(80°-90°)	2.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
Type III Medium



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

Scaled Data Report

REPORT NUMBER: P321779
CATALOG NUMBER: GLEON-SA5D-830-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4570.8	4570.8	4570.8	4570.8	4570.8	4570.8	4570.8	4570.8	4570.8	4570.8	4570.8
2.5°	4436.7	4442.1	4461.2	4469.7	4489.9	4524.0	4541.0	4542.1	4569.8	4580.4	4588.9
5°	4122.8	4154.7	4186.6	4220.7	4282.4	4364.4	4445.2	4452.7	4542.1	4608.1	4643.2
7.5°	3852.5	3881.2	3919.5	3973.8	4061.1	4189.8	4325.0	4341.0	4510.2	4660.2	4739.0
10°	3574.7	3598.1	3653.5	3733.3	3853.5	4025.9	4207.9	4234.5	4481.4	4730.5	4868.8
12.5°	3277.8	3291.6	3358.7	3473.6	3650.3	3869.5	4109.0	4144.1	4463.3	4811.3	5022.1
15°	3052.2	3058.6	3122.4	3241.6	3443.8	3729.0	4032.3	4074.9	4467.6	4908.2	5189.1
17.5°	2994.7	2997.9	3032.0	3113.9	3292.7	3603.4	3971.7	4023.8	4480.4	5002.9	5357.3
20°	3227.8	3205.4	3170.3	3157.5	3234.2	3527.9	3935.5	3994.0	4497.4	5087.0	5508.4
22.5°	3867.4	3801.4	3655.6	3460.8	3342.7	3533.2	3945.1	4003.6	4551.7	5190.2	5682.9
25°	4816.7	4725.1	4477.2	4094.1	3725.8	3686.5	4024.9	4084.5	4657.0	5313.6	5850.0
27.5°	5896.8	5806.4	5503.1	4956.1	4328.2	3989.8	4207.9	4263.3	4813.5	5423.3	5977.7
30°	6931.3	6905.7	6548.1	5926.6	5085.9	4481.4	4444.2	4491.0	4929.5	5489.2	6078.8
32.5°	7808.2	7767.7	7480.4	6875.9	5953.2	5072.1	4721.9	4735.8	5016.7	5574.4	6210.8
35°	8621.2	8571.2	8319.0	7747.5	6842.9	5793.6	5149.8	5129.5	5207.2	5745.7	6402.3
37.5°	9331.1	9376.8	9096.9	8553.1	7641.1	6543.9	5726.6	5665.9	5505.2	6024.5	6680.1
40°	9924.9	9924.9	9779.1	9325.8	8503.1	7319.7	6378.9	6299.1	5953.2	6454.5	7032.4
42.5°	10138.8	10184.6	10238.9	9982.4	9274.7	8126.4	7105.8	7022.8	6584.3	7064.3	7477.2
45°	10151.6	10224.0	10501.7	10500.7	9971.7	8927.7	7925.2	7885.9	7393.1	7847.6	8028.5
47.5°	9971.7	10062.2	10519.8	10779.5	10524.1	9673.8	8821.3	8772.4	8343.5	8807.5	8605.3
50°	9694.0	9794.0	10326.1	10889.1	10899.7	10322.9	9765.3	9691.8	9389.6	9904.7	9201.2
52.5°	9197.0	9390.7	10152.7	10914.6	11146.6	10883.8	10663.5	10631.6	10560.3	10961.5	9675.9
55°	8133.8	8348.8	9717.4	10923.1	11375.4	11380.8	11505.3	11513.8	11657.5	11949.1	10029.2
57.5°	7631.5	7752.8	8957.5	10963.6	11714.9	11944.8	12363.0	12429.0	12651.4	12886.6	10432.5
60°	7315.4	7459.1	8582.9	10908.3	12248.1	12684.4	13158.0	13180.4	13418.7	13854.0	10978.5
62.5°	7063.2	7204.8	8346.7	10695.4	12847.3	13574.1	13934.9	13937.0	14115.8	15006.6	11598.9
65°	6440.7	6559.8	7868.8	10456.0	13243.1	14454.2	14837.3	14823.5	14969.3	16221.9	12319.4
67.5°	5540.3	5631.8	6892.9	9548.2	13094.2	15254.5	16199.5	16153.8	15977.1	17272.3	12602.5
70°	4283.5	4316.5	5432.8	7957.2	11697.9	15562.1	17516.0	17492.6	16595.4	17083.9	11564.9
71°	3540.7	3649.2	4787.9	7022.8	10762.5	15277.9	17643.7	17657.5	16440.1	16571.0	10850.8
72.5°	2056.1	2148.7	3470.4	5393.5	9137.4	14092.4	16981.8	17081.8	15714.3	15072.5	9268.3
75°	440.6	471.4	1286.6	2610.5	5026.3	9877.0	13403.8	13760.4	12807.9	10253.8	5586.1
77.5°	306.5	331.0	551.3	1184.5	1661.2	4880.5	8326.5	8728.7	7651.7	3853.5	1787.9
80°	242.6	270.3	429.9	585.3	449.1	1574.0	3900.4	4146.2	2552.0	859.9	301.2
82.5°	135.2	160.7	335.2	316.1	172.4	299.0	1091.9	1234.5	510.8	173.5	71.3
85°	39.4	47.9	216.0	229.9	73.4	57.5	186.2	230.9	96.8	45.8	31.9
87.5°	0.0	0.0	104.3	88.3	21.3	8.5	17.0	19.2	19.2	19.2	21.3
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: P321779
CATALOG NUMBER: GLEON-SA5D-830-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4570.8	4570.8	4570.8	4570.8	4570.8	4570.8	4570.8	4570.8	4570.8	4570.8	4570.8
2.5°	4588.9	4596.4	4569.8	4534.6	4497.4	4451.6	4403.7	4366.5	4365.4	4347.3	4329.2
5°	4645.3	4641.1	4567.6	4455.9	4323.9	4186.6	4055.7	3907.8	3858.9	3798.2	3778.0
7.5°	4749.6	4719.8	4564.4	4319.7	4030.2	3742.9	3445.9	3146.9	3019.2	2904.3	2884.0
10°	4880.5	4824.1	4544.2	4115.3	3584.3	3054.3	2606.3	2199.7	2021.0	1883.7	1877.3
12.5°	5016.7	4930.5	4487.8	3806.7	3000.0	2255.1	1738.9	1338.8	1189.8	1094.0	1102.5
15°	5159.3	5030.6	4366.5	3390.6	2334.9	1530.3	1068.5	833.3	773.7	749.2	755.6
17.5°	5305.1	5099.7	4197.3	2889.4	1678.3	987.6	739.6	673.7	673.7	679.0	681.1
20°	5431.8	5137.0	3948.3	2327.4	1137.7	719.4	647.0	637.5	642.8	651.3	652.4
22.5°	5557.4	5139.1	3623.7	1758.1	796.0	630.0	616.2	611.9	615.1	624.7	625.8
25°	5659.5	5113.6	3217.1	1250.5	635.3	593.8	587.4	585.3	587.4	599.2	599.2
27.5°	5701.0	5021.0	2721.2	879.0	569.4	553.4	551.3	553.4	556.6	565.1	566.2
30°	5705.3	4859.2	2180.6	636.4	516.1	499.1	503.4	510.8	507.6	505.5	507.6
32.5°	5715.9	4671.9	1653.8	523.6	471.4	444.8	439.5	439.5	426.8	419.3	415.0
35°	5751.0	4451.6	1199.4	470.4	425.7	394.8	374.6	351.2	326.7	313.9	310.8
37.5°	5806.4	4220.7	858.8	435.3	385.2	350.1	311.8	270.3	235.2	225.6	225.6
40°	5907.5	3982.3	635.3	407.6	353.3	309.7	252.2	197.9	166.0	160.7	160.7
42.5°	6067.1	3731.2	506.6	383.1	325.7	268.2	192.6	143.7	120.3	117.1	116.0
45°	6233.1	3454.5	442.7	359.7	295.9	220.3	142.6	106.4	92.6	89.4	89.4
47.5°	6399.2	3159.7	411.9	337.4	267.1	171.3	106.4	84.1	77.7	77.7	78.8
50°	6539.6	2852.1	389.5	312.9	229.9	129.8	84.1	71.3	69.2	73.4	74.5
52.5°	6574.7	2549.9	361.8	282.0	184.1	99.0	69.2	62.8	62.8	62.8	62.8
55°	6553.5	2315.7	325.7	243.7	136.2	78.8	59.6	55.3	54.3	54.3	54.3
57.5°	6625.8	2177.4	260.7	189.4	97.9	63.9	52.1	49.0	46.8	45.8	45.8
60°	6771.6	2086.9	186.2	136.2	73.4	53.2	44.7	41.5	38.3	36.2	36.2
62.5°	6965.3	2008.2	138.3	101.1	56.4	42.6	37.2	34.1	29.8	27.7	27.7
65°	7114.3	1867.7	105.4	75.6	42.6	34.1	28.7	27.7	21.3	19.2	18.1
67.5°	6886.6	1559.1	85.1	55.3	31.9	26.6	22.3	21.3	12.8	10.6	10.6
70°	5906.4	1085.5	68.1	40.4	23.4	21.3	18.1	13.8	9.6	8.5	8.5
71°	*5356.2*	*906.7*	*61.7*	*34.1*	*20.2*	*20.2*	*17.0*	*11.7*	*8.5*	*7.4*	*7.4*
72.5°	4449.5	643.9	52.1	26.6	18.1	21.3	18.1	10.6	8.5	7.4	6.4
75°	2582.9	269.2	36.2	18.1	13.8	25.5	23.4	9.6	6.4	5.3	5.3
77.5°	776.9	99.0	20.2	11.7	10.6	22.3	26.6	8.5	3.2	1.1	1.1
80°	141.5	42.6	12.8	7.4	7.4	13.8	20.2	4.3	0.0	0.0	0.0
82.5°	50.0	21.3	7.4	4.3	3.2	6.4	9.6	0.0	0.0	0.0	0.0
85°	28.7	14.9	4.3	2.1	0.0	1.1	2.1	0.0	0.0	0.0	0.0
87.5°	19.2	4.3	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

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

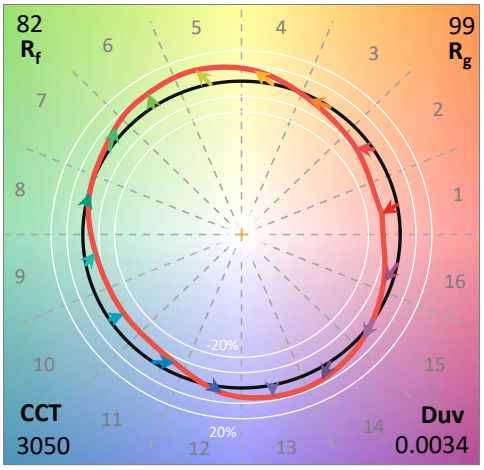
Test Information

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

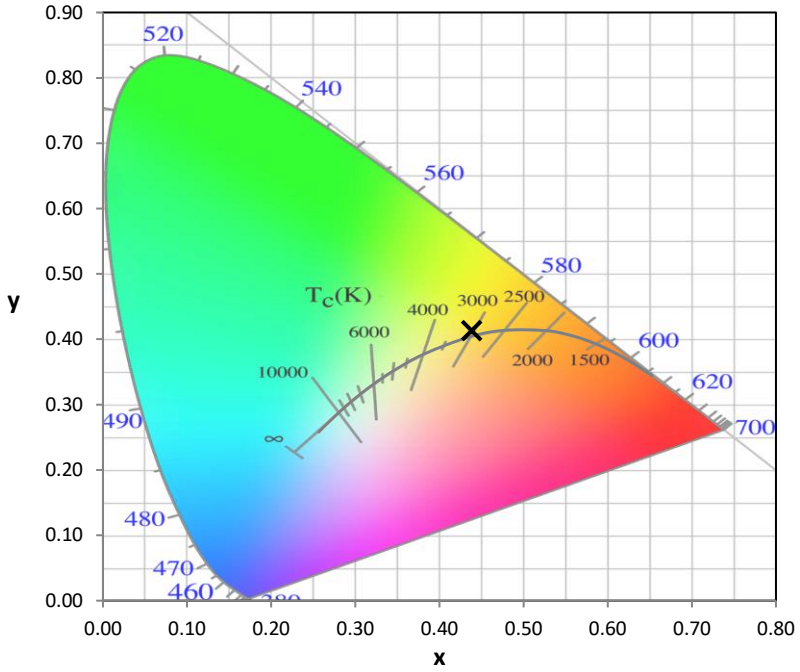
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

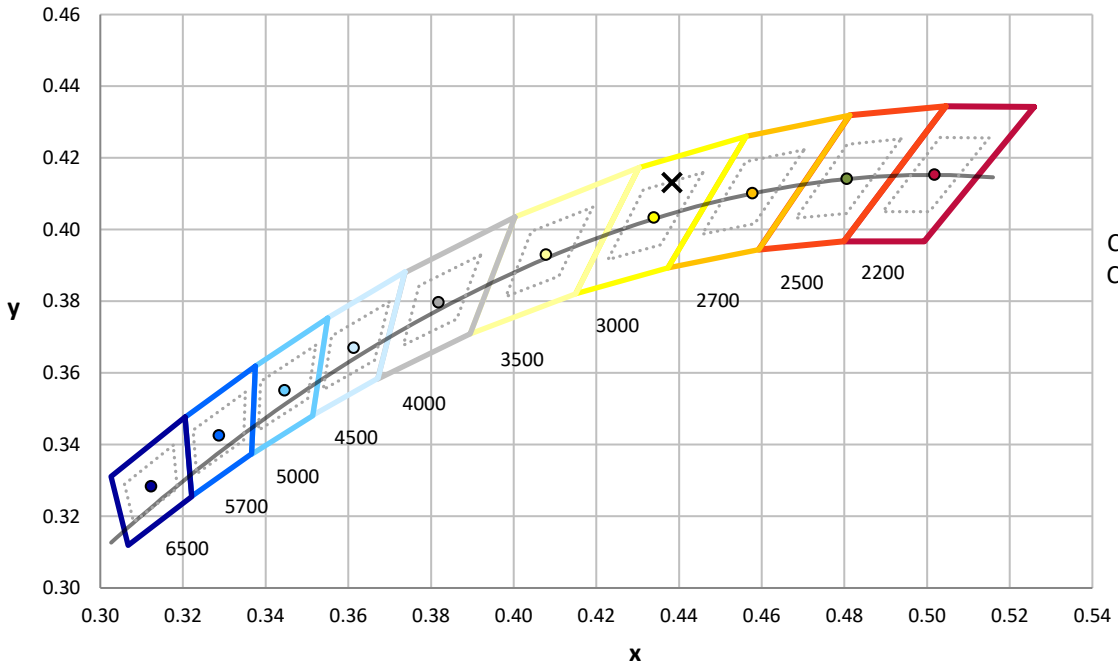
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

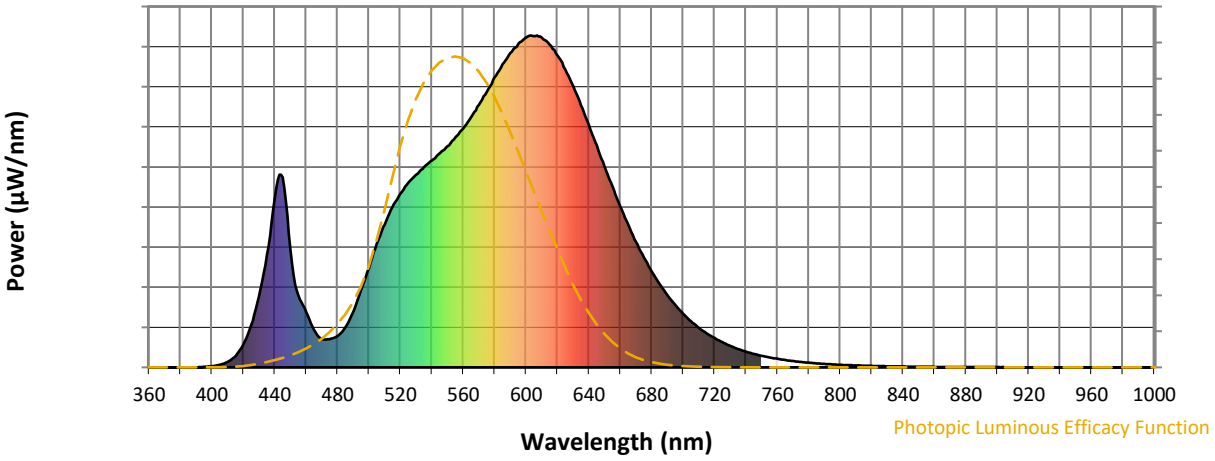


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

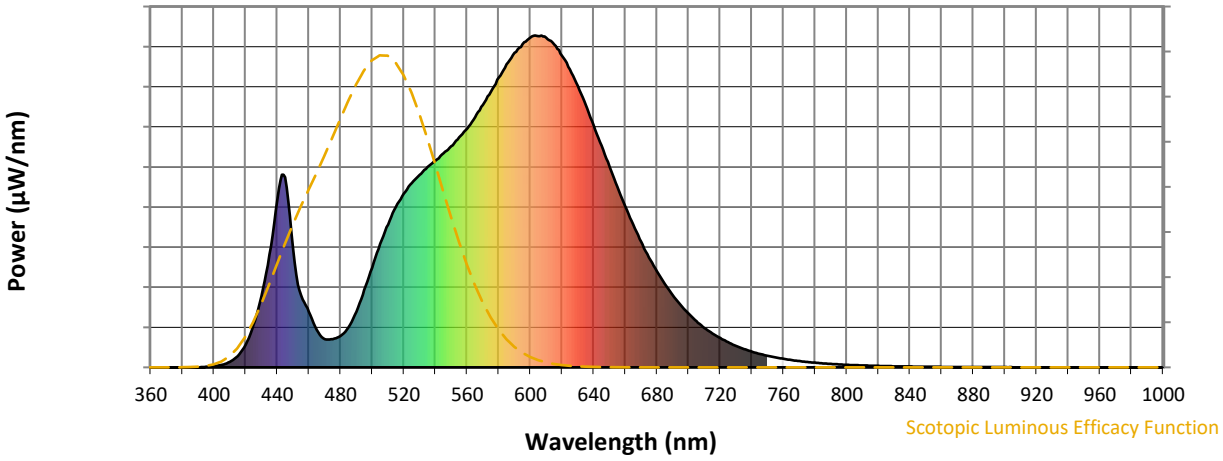


Photopic Lumens: NR

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

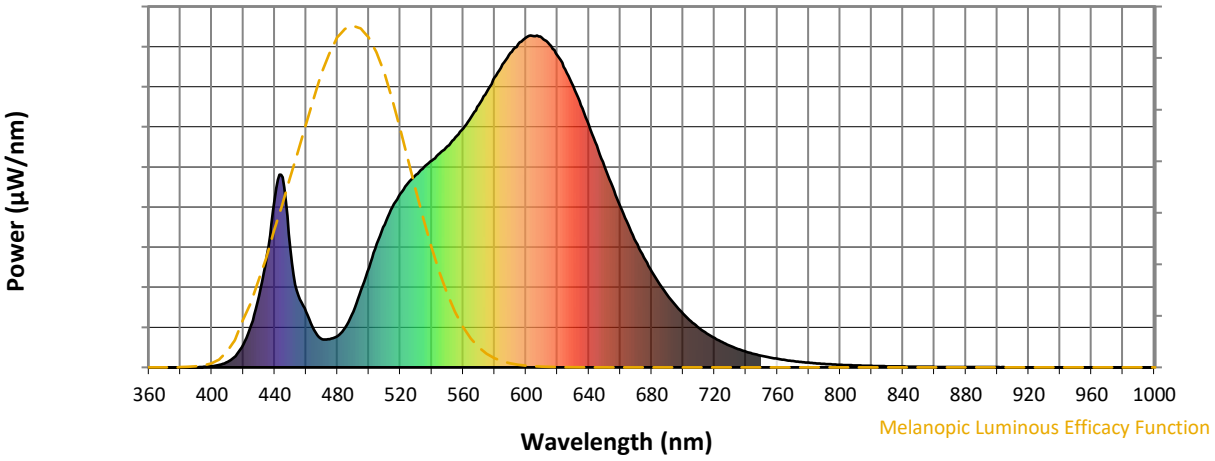


Scotopic Lumens: NR **S/P: 1.27**

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			

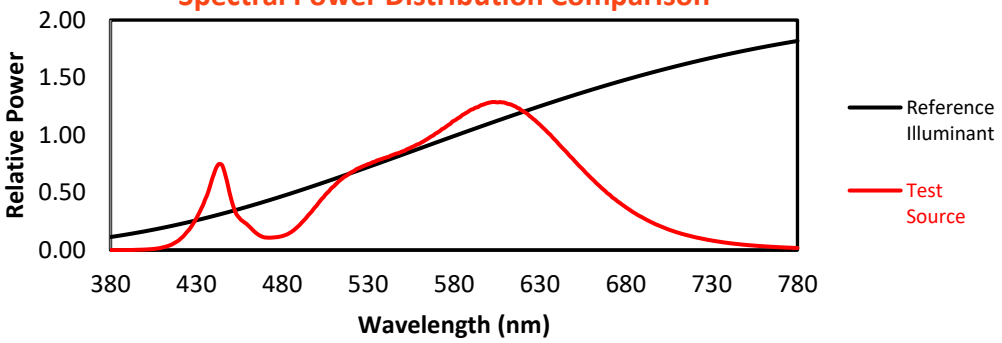
REPORT NUMBER: SP1-2408-195-9

TM-30-18

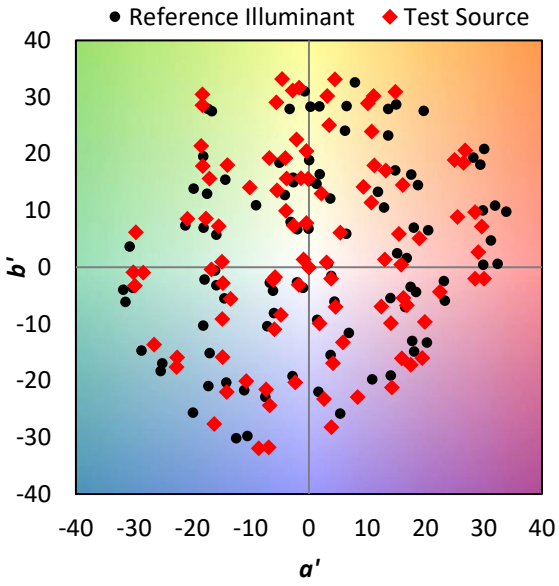
Summary

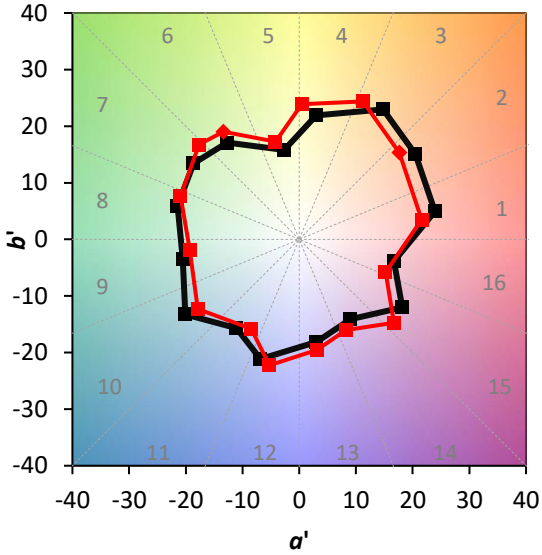
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

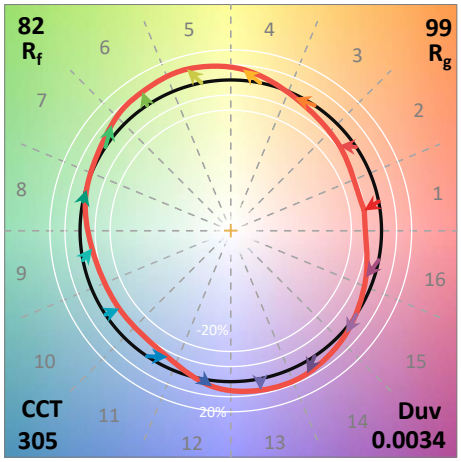
Spectral Power Distribution Comparison

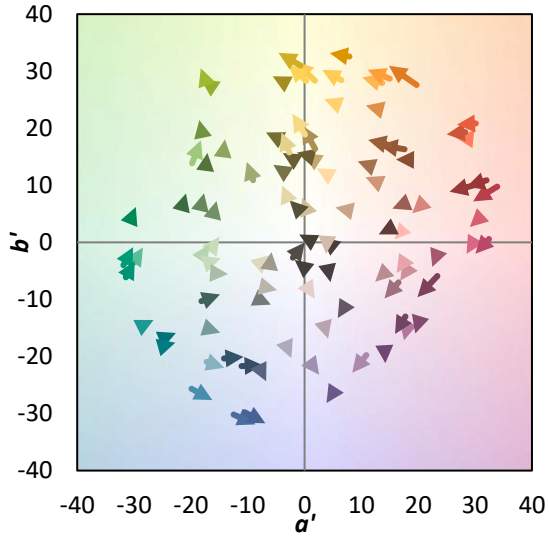


Color Vector Graphics







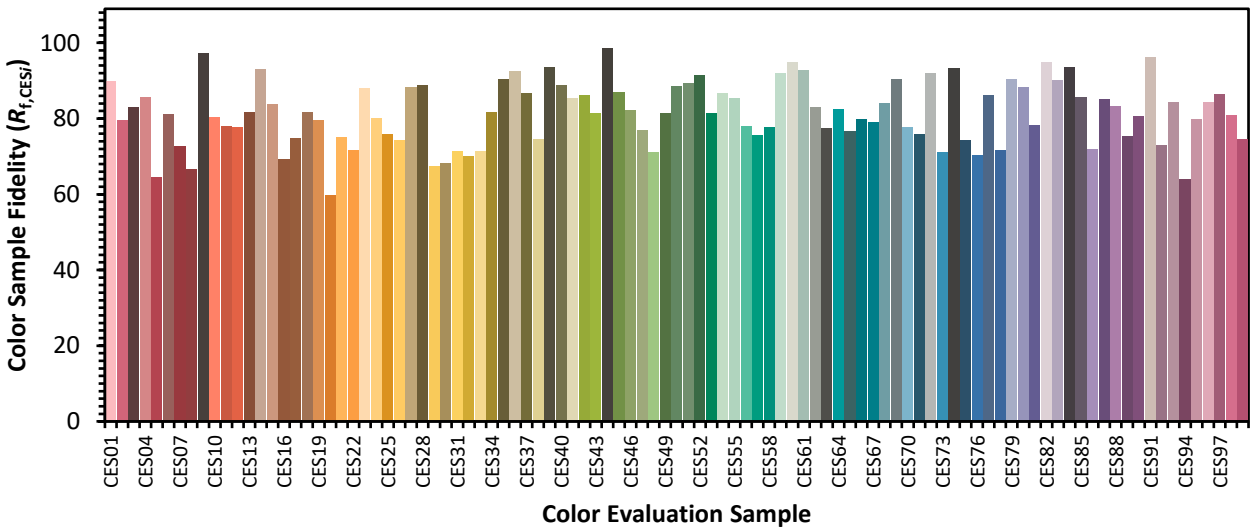


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

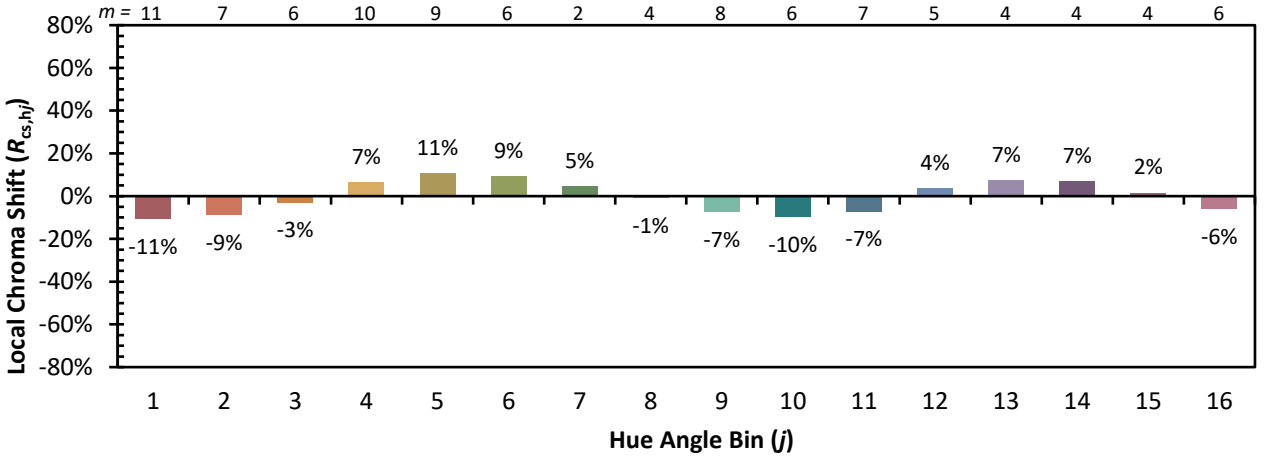
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

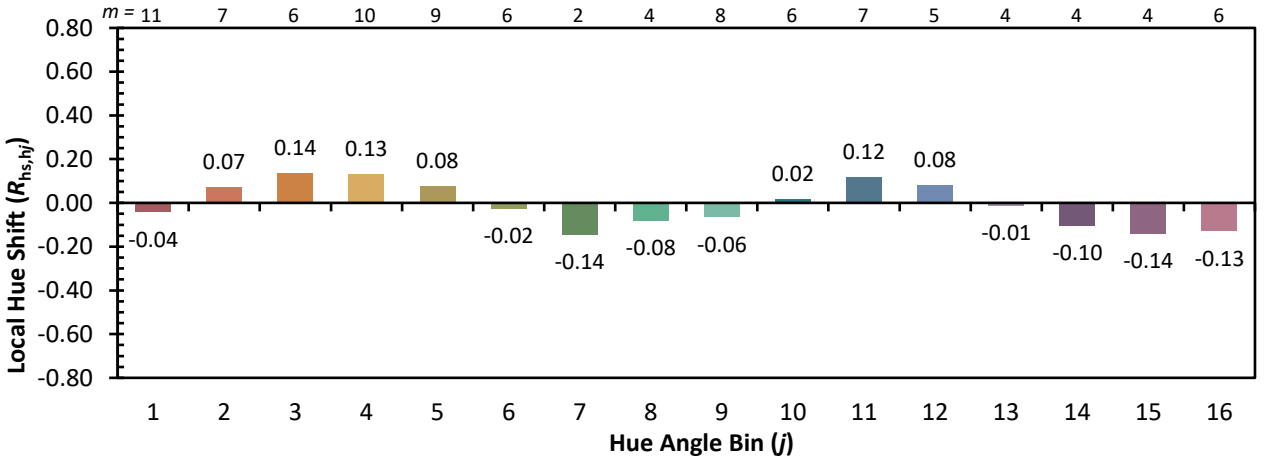


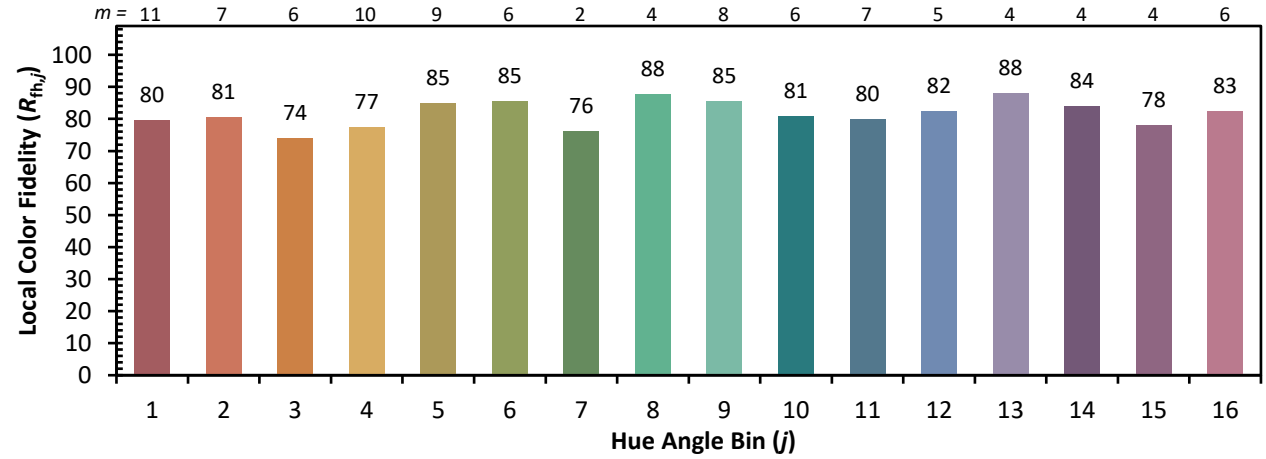
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



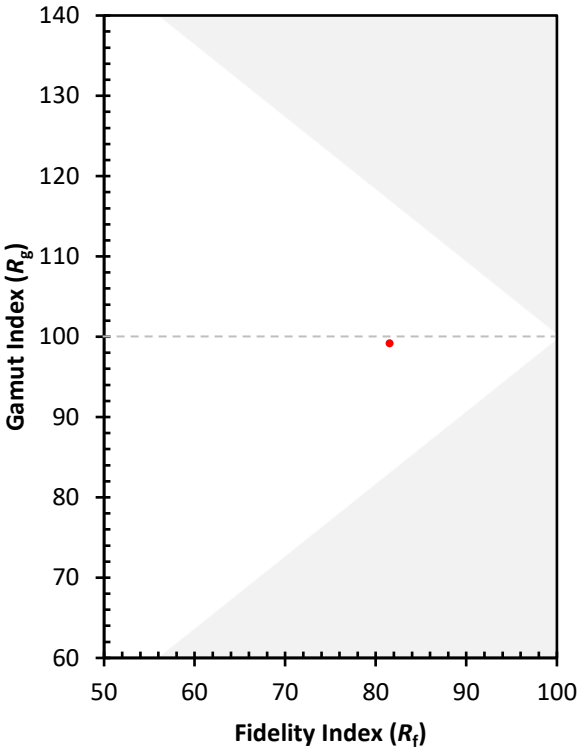


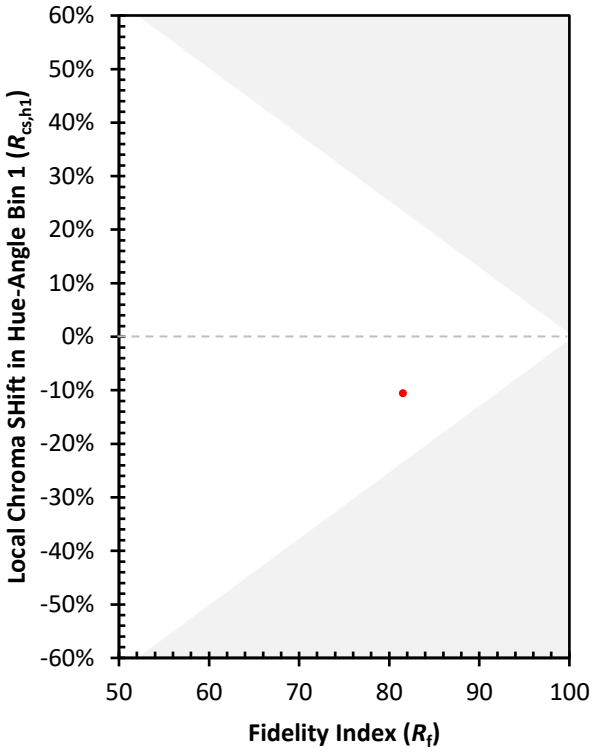


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)