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: P321458

Luminaire Tested: **GLEON-SA4D-830-U-T2R-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:	P321458
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA4D-830-U-T2R-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(4) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	20077 lumens
Efficiency:	N/A
Efficacy:	77.8 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type II - Medium
BUG Rating:	B1 - U0 - G3

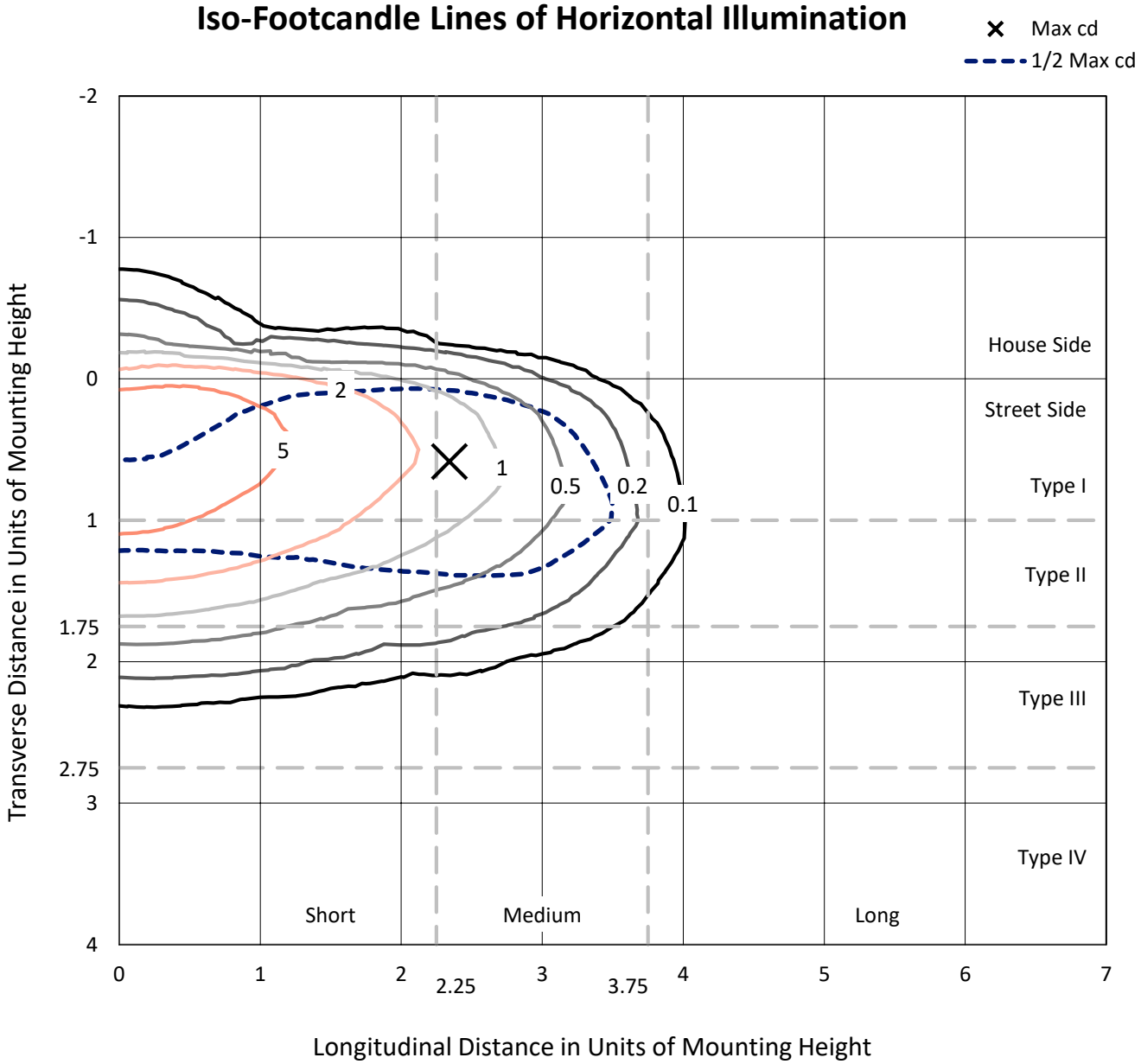
Input Watts (W):	258
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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

Scaled Data Report

REPORT NUMBER: P321458
CATALOG NUMBER: GLEON-SA4D-830-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination



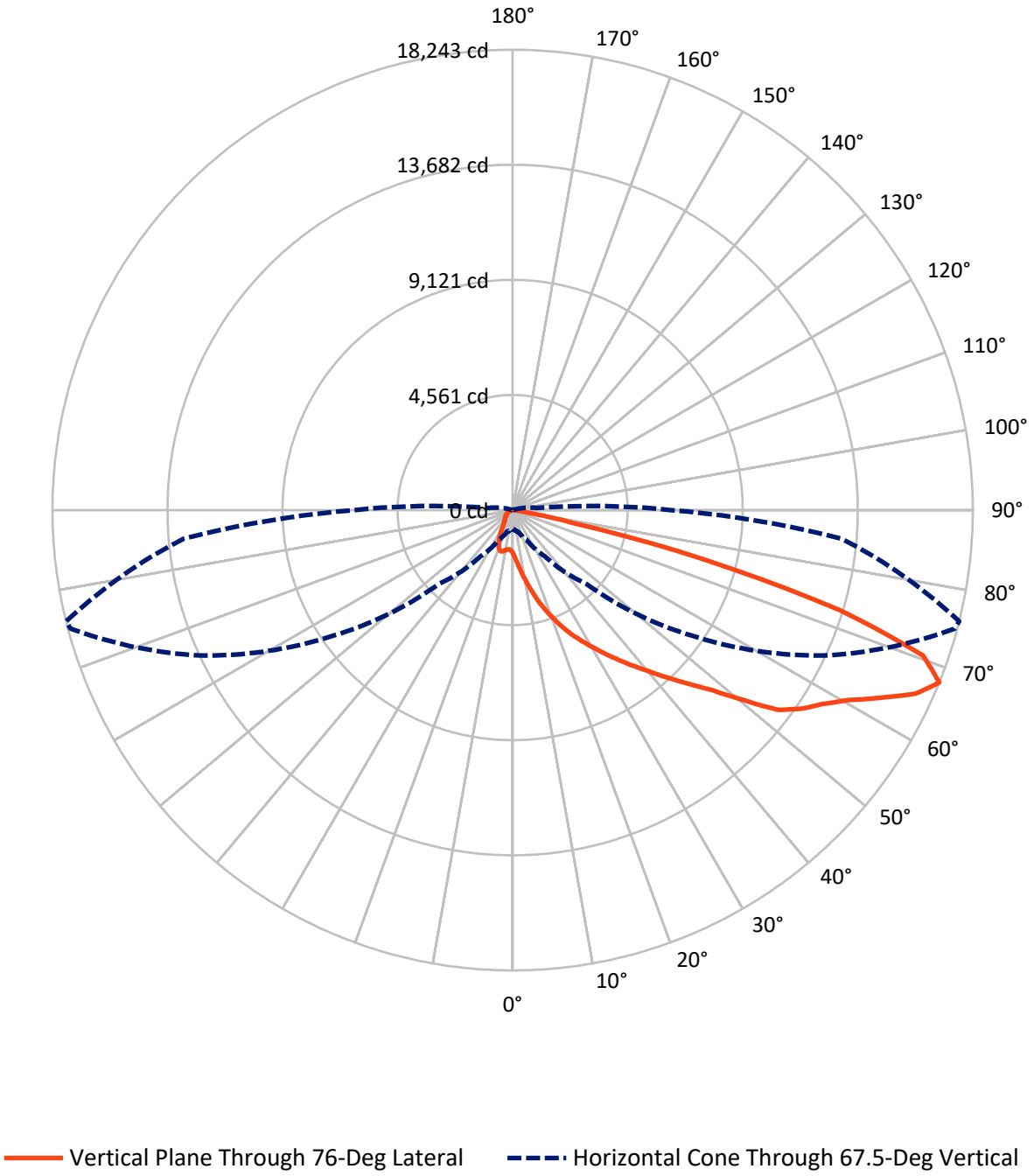
Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
Type II - Medium - N/A

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

Scaled Data Report

REPORT NUMBER: P321458
CATALOG NUMBER: GLEON-SA4D-830-U-T2R-HSS

Luminous Intensity Polar Plot



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

Scaled Data Report

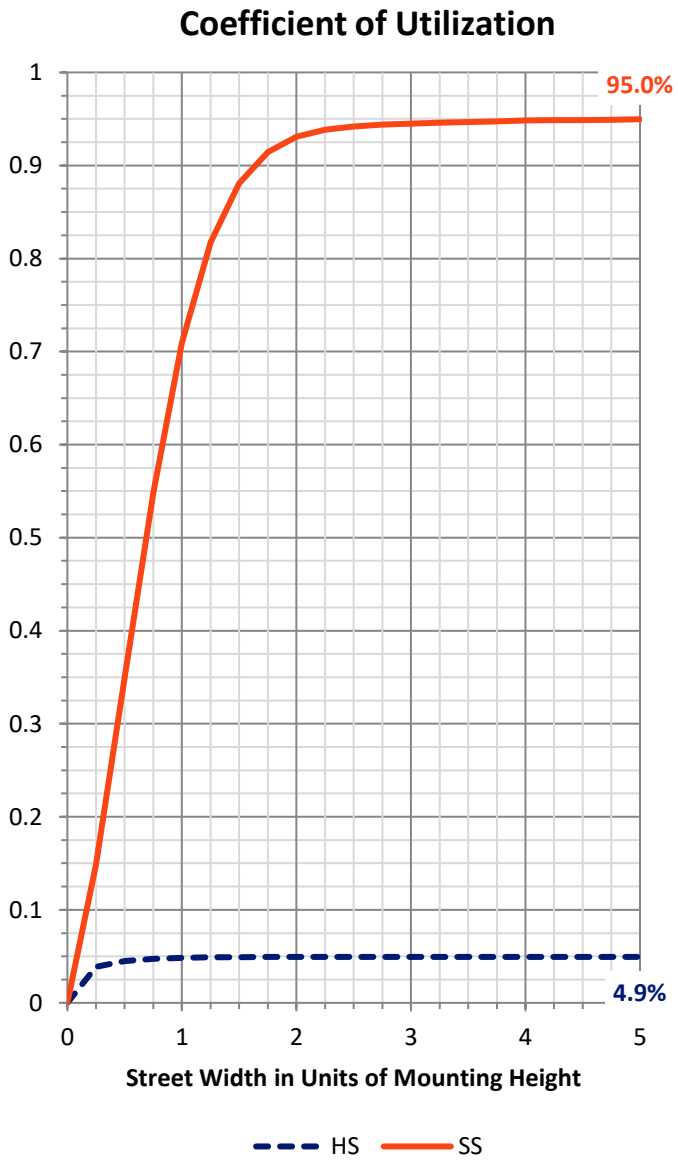
REPORT NUMBER: P321458
CATALOG NUMBER: GLEON-SA4D-830-U-T2R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	997.0	0.0	997.0
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	19080.0	0.0	19080.0
	% Fixture	95.0	0.0	95.0
Total	Lumens	20077.0	0.0	20077.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.8	1.1
10°-20°	839.5	4.2
20°-30°	1708.2	8.5
30°-40°	2964.8	14.8
40°-50°	4188.9	20.9
50°-60°	4750.4	23.7
60°-70°	3940.0	19.6
70°-80°	1427.2	7.1
80°-90°	46.3	0.2
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°	20077.0	100.0
0°-180°	20077.0	100.0



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

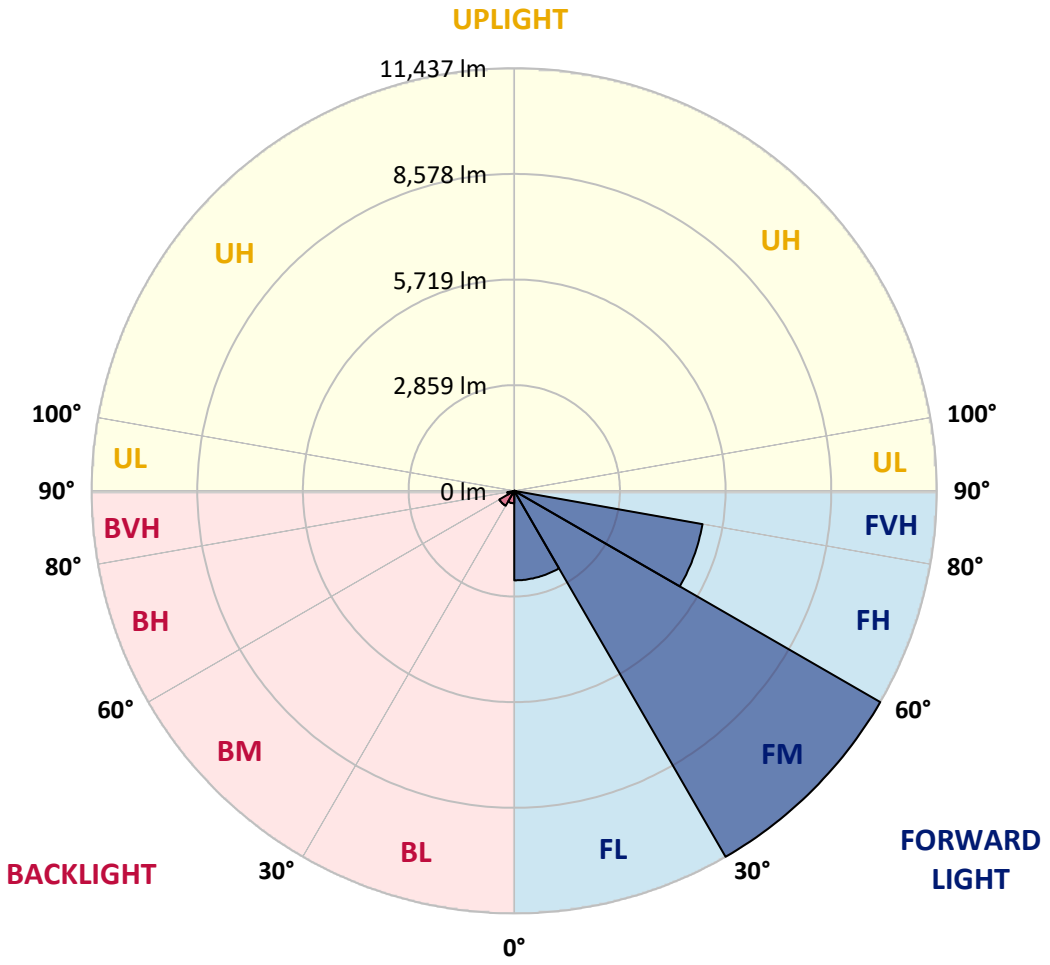
Scaled Data Report

REPORT NUMBER: P321458
CATALOG NUMBER: GLEON-SA4D-830-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2423.2	12.1			
FM	(30°-60°)	11437.5	57.0			
FH	(60°-80°)	5174.5	25.8			G3/7500
FVH	(80°-90°)	44.8	0.2			G1/100
BL	(0°-30°)	336.2	1.7	B1/500		
BM	(30°-60°)	466.6	2.3	B1/1000		
BH	(60°-80°)	192.7	1.0	B1/500		G1/500
BVH	(80°-90°)	1.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
Type II Medium



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

Scaled Data Report

REPORT NUMBER: P321458
CATALOG NUMBER: GLEON-SA4D-830-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1703.1	1703.1	1703.1	1703.1	1703.1	1703.1	1703.1	1703.1	1703.1	*1703.1*	1703.1
2.5°	2542.4	2485.2	2498.4	2461.4	2394.6	2257.3	2140.3	2029.5	1900.2	*1895.8*	1789.3
5°	3428.2	3379.8	3373.7	3298.9	3177.5	2944.4	2717.4	2458.8	2170.2	*2149.1*	1923.0
7.5°	4232.3	4193.6	4179.5	4090.6	3864.5	3637.6	3342.0	2962.0	2510.7	*2472.0*	2103.4
10°	4849.8	4831.3	4834.9	4771.5	4578.0	4366.9	3978.9	3494.2	2896.9	*2837.1*	2319.8
12.5°	5317.8	5322.2	5353.9	5315.2	5207.0	5050.4	4636.1	4061.6	3324.4	*3242.6*	2567.0
15°	5661.8	5683.8	5741.8	5790.2	5782.3	5646.8	5266.8	4637.8	3778.3	*3687.7*	2842.3
17.5°	5884.4	5909.0	5993.4	6100.8	6199.3	6167.6	5875.6	5193.8	4237.5	*4132.9*	3137.0
20°	6079.6	6108.7	6199.3	6340.9	6524.8	6564.4	6372.6	5733.0	4695.9	*4568.3*	3441.4
22.5°	6502.8	6501.9	6557.3	6640.0	6815.1	6917.1	6795.7	6233.6	5148.9	*5016.1*	3751.9
25°	7268.1	7239.1	7219.7	7154.7	7193.4	7256.7	7189.0	6701.6	5604.6	*5470.0*	4066.9
27.5°	8177.7	8195.3	8038.8	7863.7	7728.2	7663.1	7552.3	7135.3	6042.7	*5894.9*	4374.8
30°	9137.5	9142.8	8958.0	8734.6	8436.4	8189.2	7997.4	7549.6	6493.1	*6332.1*	4673.9
32.5°	10003.1	9968.8	9785.9	9481.5	9105.0	8827.0	8428.5	8012.4	6969.9	*6814.2*	5006.4
35°	10689.3	10648.8	10426.3	10149.2	9758.6	9478.8	8999.4	8474.2	7471.3	*7319.2*	5339.8
37.5°	11190.7	11143.2	10914.5	10629.5	10292.6	10129.8	9661.8	8976.5	8018.5	*7854.9*	5690.8
40°	11364.9	11323.6	11180.2	10971.7	10700.7	10663.8	10364.7	9554.5	8614.1	*8439.9*	6088.4
42.5°	11261.1	11220.7	11169.6	11099.3	10986.6	11021.8	11028.0	10213.4	9275.6	*9104.1*	6527.4
45°	10849.4	10813.3	10866.1	10969.1	11108.9	11283.1	11633.2	10921.6	10014.6	*9831.6*	7035.0
47.5°	10243.3	10216.9	10362.9	10619.8	11028.9	11509.2	12186.6	11665.8	10844.1	*10674.4*	7668.4
50°	9381.2	9376.8	9668.9	10137.7	10766.7	11618.3	12758.4	12512.1	11996.6	*11818.0*	8549.0
52.5°	8038.8	8047.6	8622.0	9372.4	10306.6	11544.4	13126.1	13599.4	13337.2	*13151.6*	9311.7
55°	6760.5	6813.3	7220.6	8302.7	9601.1	11269.9	13252.8	14107.0	14077.1	*13901.1*	9735.7
57.5°	5508.7	5604.6	5997.0	7007.7	8571.0	10637.4	13183.3	14326.9	14627.8	*14493.2*	10295.2
60°	4152.2	4196.2	4648.4	5593.2	7248.8	9483.2	12679.2	14446.5	15380.8	*15287.5*	11107.2
62.5°	2641.8	2751.7	3152.9	4064.2	5644.2	7880.4	11829.4	14444.8	16322.9	*16374.0*	12154.9
65°	1391.7	1520.1	1733.0	2518.6	3878.6	6090.2	10551.2	14309.3	17478.9	*17550.1*	12973.9
67.5°	*750.4*	*787.3*	*899.9*	*1307.2*	*2249.4*	*4125.8*	*8673.0*	*13640.7*	*18148.3*	*18242.5*	*13088.3*
70°	548.9	569.2	611.4	723.1	1132.2	2396.3	6328.6	12125.0	17285.3	*17250.2*	11628.8
72.5°	421.4	453.0	484.7	529.6	651.0	1279.1	3940.2	9494.7	13792.0	*13559.8*	8692.4
75°	332.5	337.8	382.7	423.1	488.2	728.4	1749.7	5529.8	8417.9	*7868.1*	4507.6
77.5°	265.7	269.2	295.6	330.8	392.3	478.6	541.9	2175.5	2687.5	*2398.1*	978.2
80°	157.5	166.3	219.9	255.1	325.5	301.7	197.9	472.4	419.6	*380.0*	164.5
82.5°	88.0	95.0	124.0	201.5	227.0	144.3	98.5	127.6	98.5	*95.9*	46.6
85°	0.0	4.4	80.1	124.9	92.4	31.7	41.3	42.2	29.0	*27.3*	18.5
87.5°	0.0	0.0	24.6	23.8	3.5	5.3	9.7	14.1	11.4	*11.4*	9.7
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: P321458
CATALOG NUMBER: GLEON-SA4D-830-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1703.1	1703.1	1703.1	1703.1	1703.1	1703.1	1703.1	1703.1	1703.1	1703.1	1703.1
2.5°	1736.5	1689.0	1599.3	1511.3	1437.4	1376.7	1322.2	1300.2	1282.6	1280.0	1265.9
5°	1814.0	1718.1	1546.5	1405.8	1311.6	1244.8	1187.6	1152.4	1125.1	1114.6	1104.9
7.5°	1931.0	1785.8	1539.5	1377.6	1265.0	1152.4	1046.9	932.5	861.2	834.0	818.1
10°	2073.5	1875.5	1565.9	1369.7	1172.6	935.1	760.1	614.9	556.0	536.6	531.3
12.5°	2239.7	1987.3	1611.6	1320.4	975.6	664.2	524.3	475.0	461.8	455.7	455.7
15°	2430.6	2109.5	1644.2	1177.9	721.4	502.3	453.9	431.1	417.0	409.1	409.9
17.5°	2625.9	2229.2	1628.3	971.2	532.2	446.9	410.8	386.2	366.8	358.9	357.2
20°	2823.0	2340.0	1540.4	723.1	450.4	405.5	365.1	337.8	318.5	310.5	308.8
22.5°	3027.1	2434.1	1385.5	530.5	404.7	359.8	320.2	292.9	274.5	267.4	263.9
25°	3225.9	2510.7	1169.1	429.3	361.6	316.7	278.9	253.4	236.6	229.6	228.7
27.5°	3411.5	2559.1	918.4	379.2	323.7	278.0	243.7	220.8	206.7	201.5	200.6
30°	3578.6	2563.5	679.1	342.2	290.3	244.6	212.9	192.7	180.3	175.1	173.3
32.5°	3747.5	2526.5	494.4	308.8	259.5	215.5	184.7	168.9	160.1	155.7	155.7
35°	3906.8	2441.2	385.3	279.7	229.6	187.4	162.7	151.3	146.0	141.6	141.6
37.5°	4062.5	2318.9	327.3	254.2	201.5	163.6	143.4	136.4	132.0	127.6	127.6
40°	4220.8	2165.0	297.3	230.5	178.6	145.2	127.6	121.4	117.0	113.5	112.6
42.5°	4415.2	1987.3	278.0	208.5	158.3	128.4	112.6	105.6	102.0	98.5	96.8
45°	4640.4	1834.2	262.2	186.5	141.6	114.4	97.6	90.6	85.3	80.9	80.1
47.5°	4965.1	1723.3	241.0	162.7	125.8	99.4	84.5	76.5	68.6	64.2	63.3
50°	5379.4	1631.9	213.8	141.6	110.0	84.5	70.4	60.7	53.7	49.3	49.3
52.5°	5585.3	1512.2	189.1	123.2	92.4	71.3	57.2	45.7	42.2	37.8	37.8
55°	5667.9	1420.7	164.5	104.7	76.5	58.9	44.9	35.2	32.5	29.9	29.0
57.5°	5900.2	1394.3	143.4	88.9	63.3	46.6	34.3	26.4	24.6	21.1	21.1
60°	6274.1	1407.5	124.0	75.7	51.0	36.1	25.5	20.2	18.5	15.0	15.0
62.5°	6677.8	1390.8	104.7	65.1	39.6	26.4	17.6	15.0	15.0	8.8	7.9
65°	6755.3	1238.6	89.7	53.7	30.8	19.4	11.4	9.7	13.2	1.8	0.0
67.5°	*6269.7*	*960.6*	*77.4*	*41.3*	*22.9*	*15.0*	*8.8*	*4.4*	*11.4*	*0.0*	*0.0*
70°	5013.4	610.5	62.5	29.9	17.6	12.3	7.0	1.8	8.8	0.0	0.0
72.5°	3545.2	354.5	49.3	21.1	15.0	9.7	5.3	0.0	5.3	0.0	0.0
75°	1792.8	189.1	30.8	15.8	11.4	7.0	3.5	0.0	0.9	0.0	0.0
77.5°	388.0	88.0	19.4	11.4	7.9	4.4	1.8	0.0	0.0	0.0	0.0
80°	84.5	38.7	12.3	7.0	4.4	2.6	0.0	0.0	0.0	0.0	0.0
82.5°	30.8	20.2	6.2	3.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.7	10.6	3.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.8	3.5	0.9	0.9	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

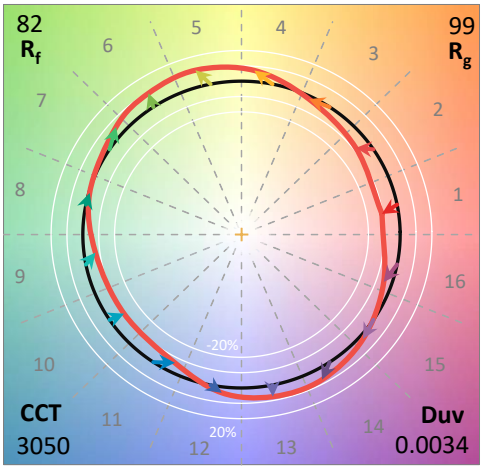
Test Information

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

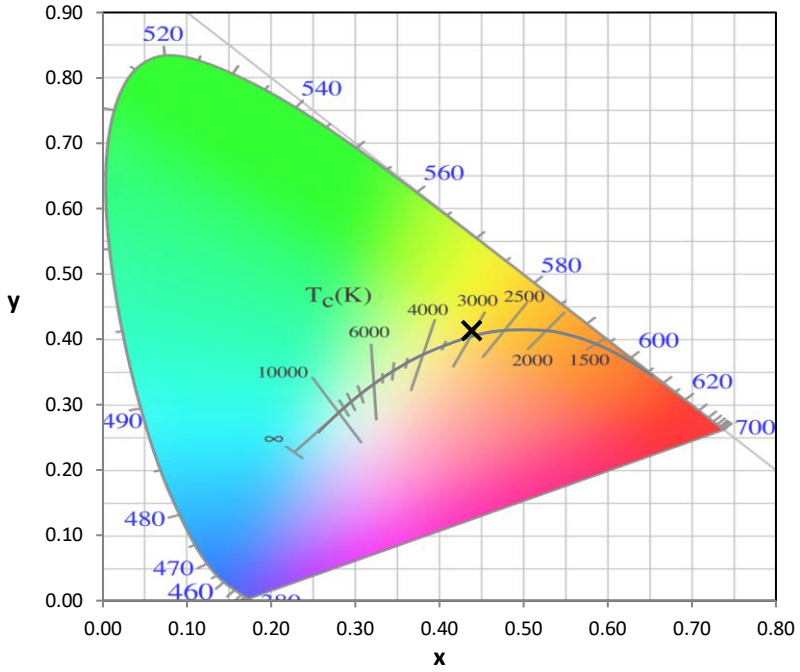
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

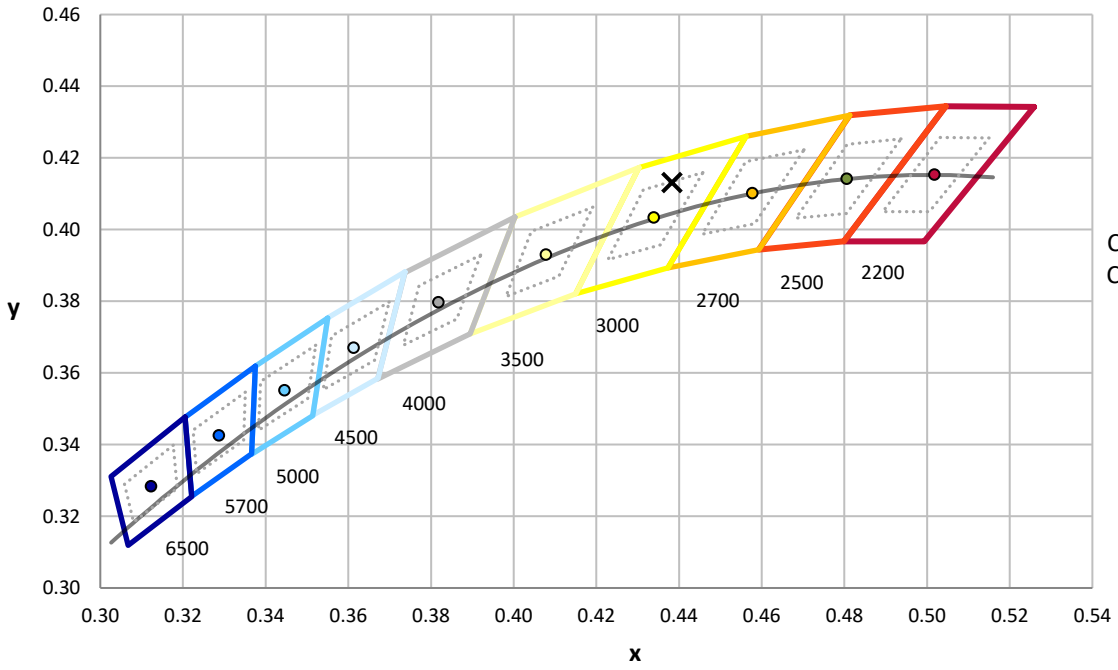
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

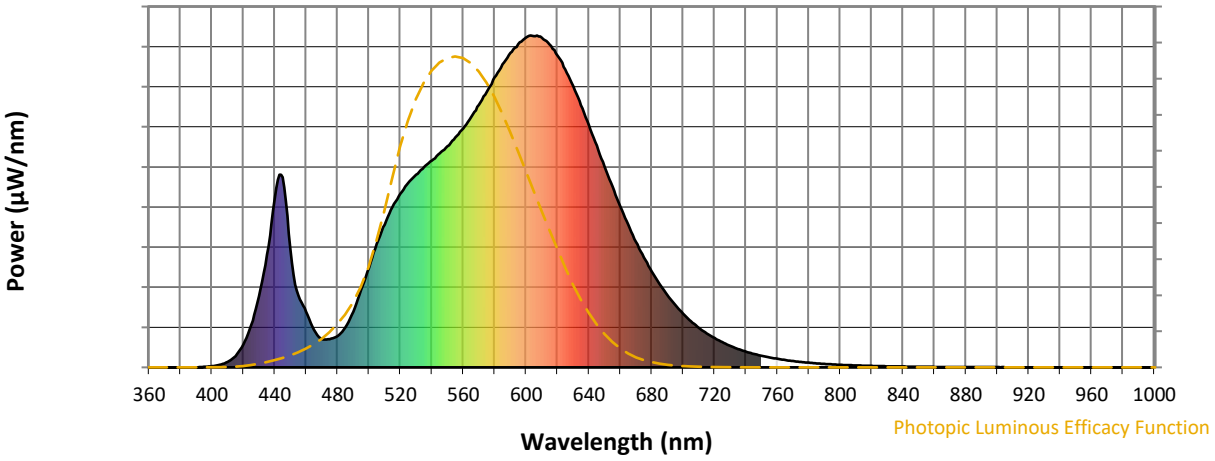


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

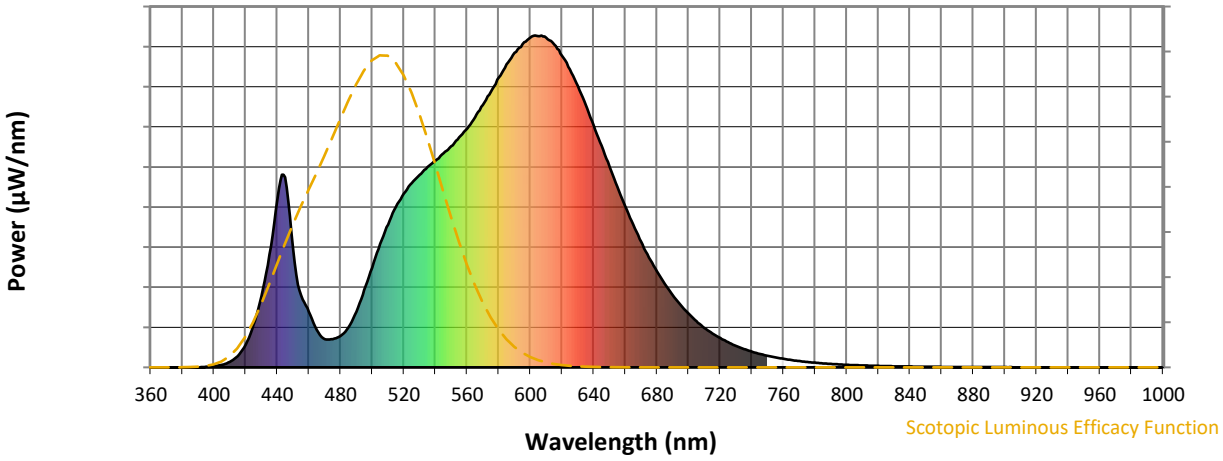


Photopic Lumens: NR

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

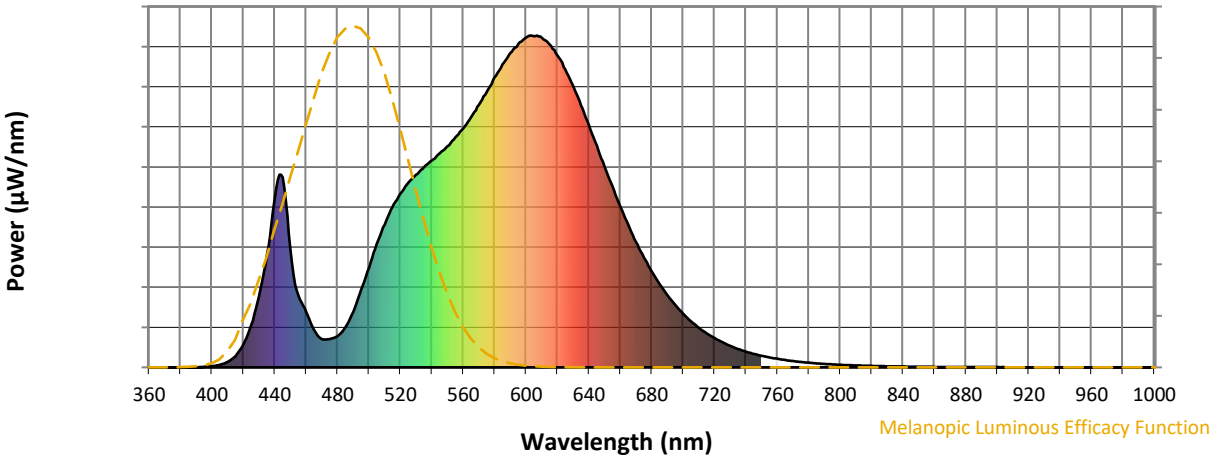


Scotopic Lumens: NR **S/P: 1.27**

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			

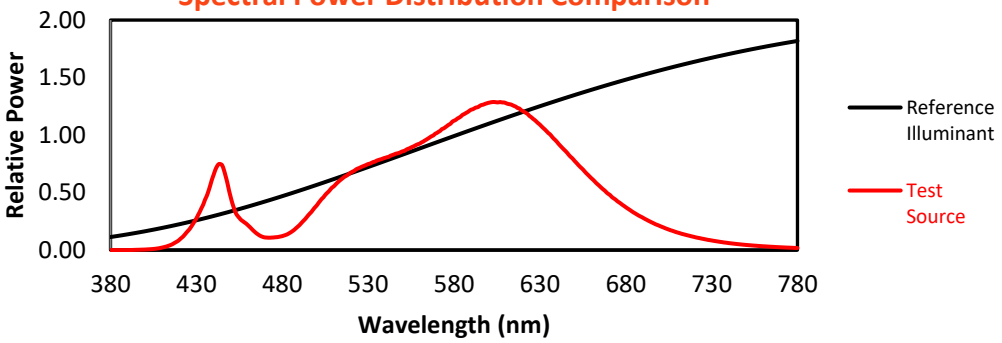
REPORT NUMBER: SP1-2408-195-9

TM-30-18

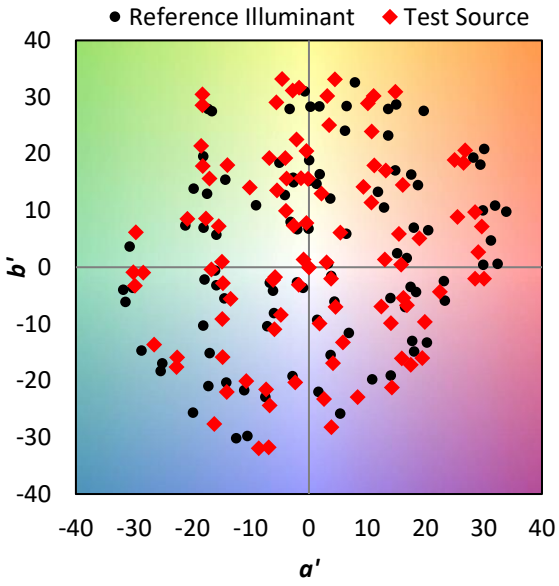
Summary

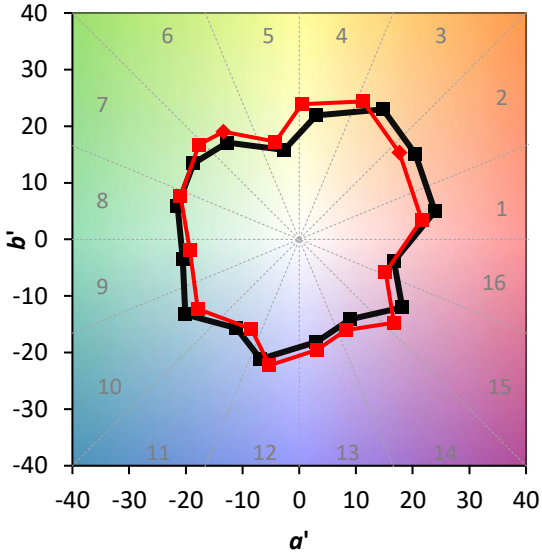
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

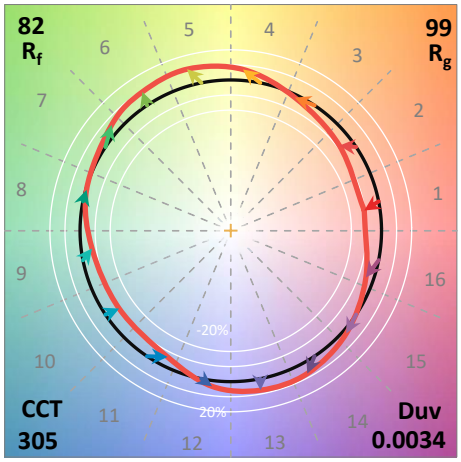
Spectral Power Distribution Comparison

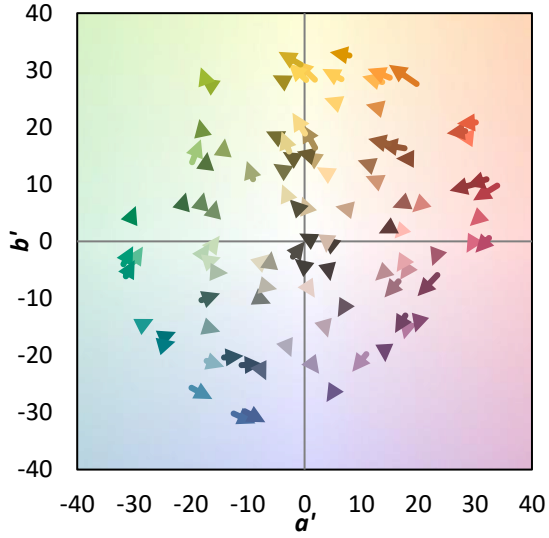


Color Vector Graphics







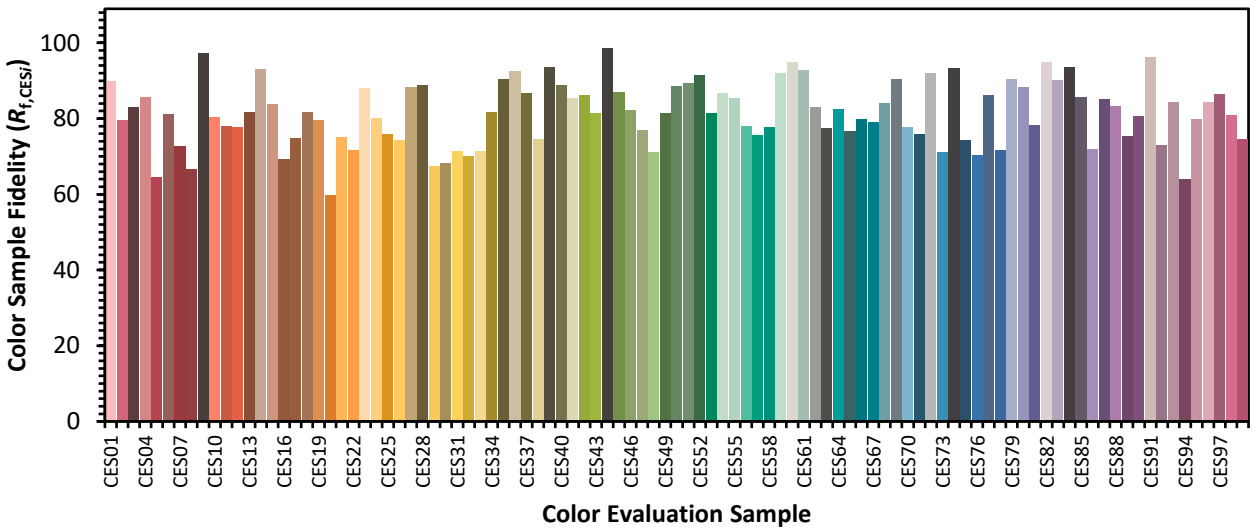


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

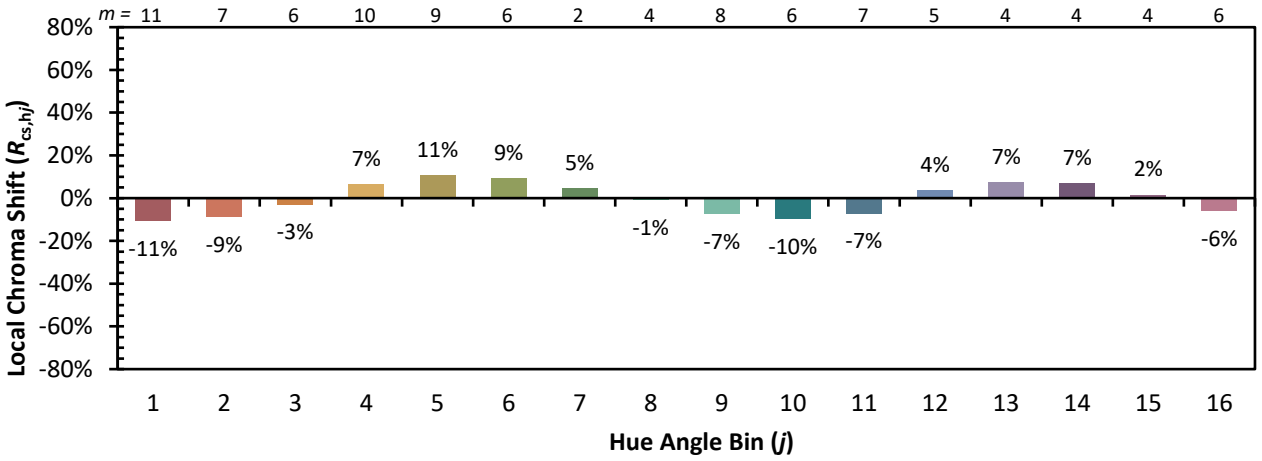
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

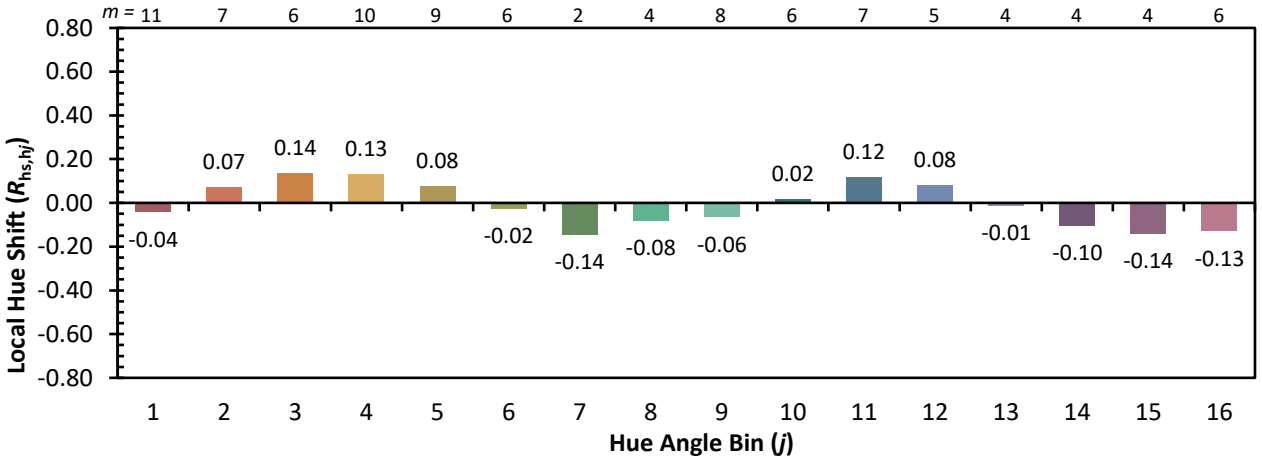


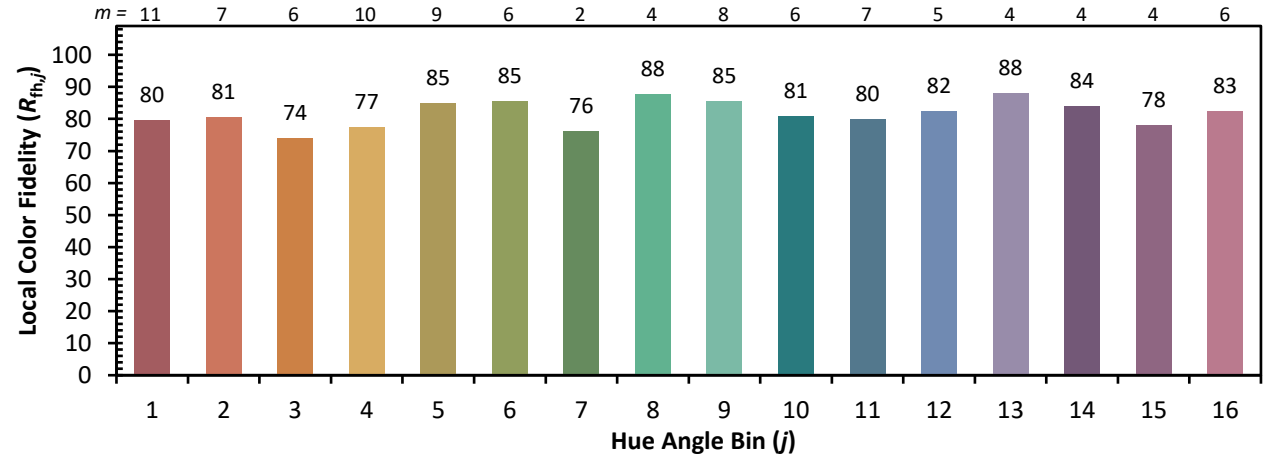
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



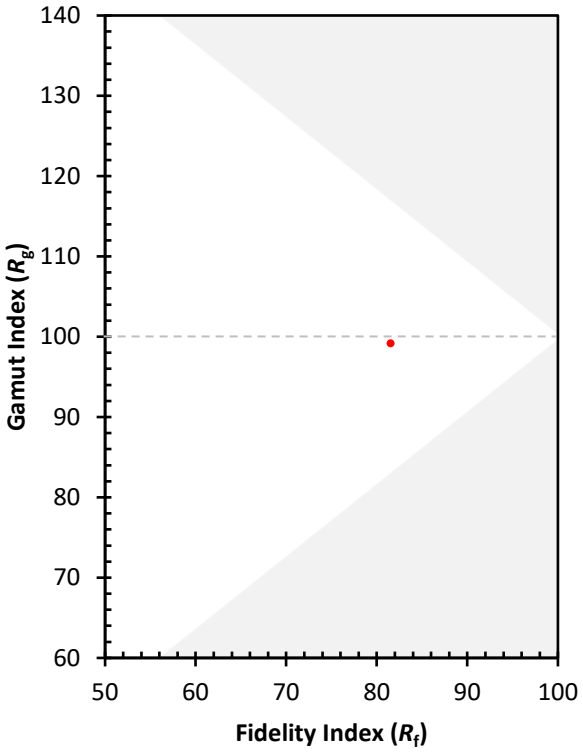


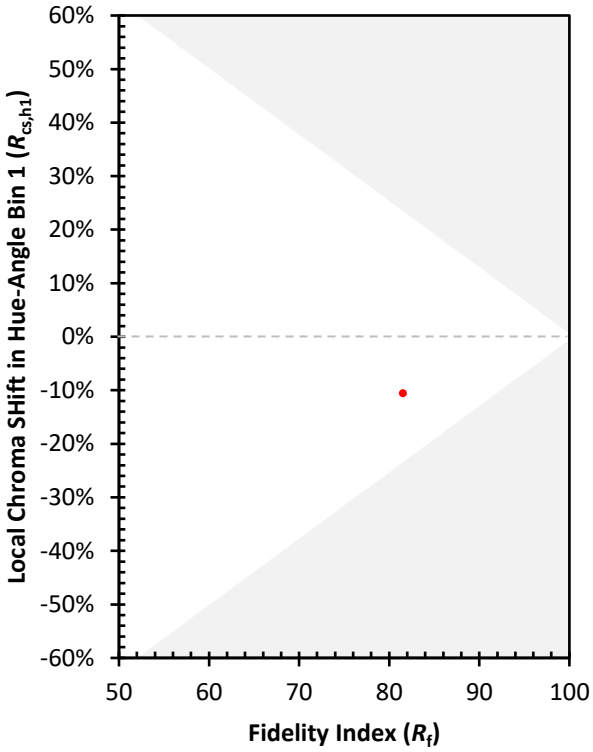


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)