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: P317597

Luminaire Tested: **GLEON-SA3B-830-U-T2R**

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:	P317597
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA3B-830-U-T2R
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	14443 lumens
Efficiency:	N/A
Efficacy:	116.5 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

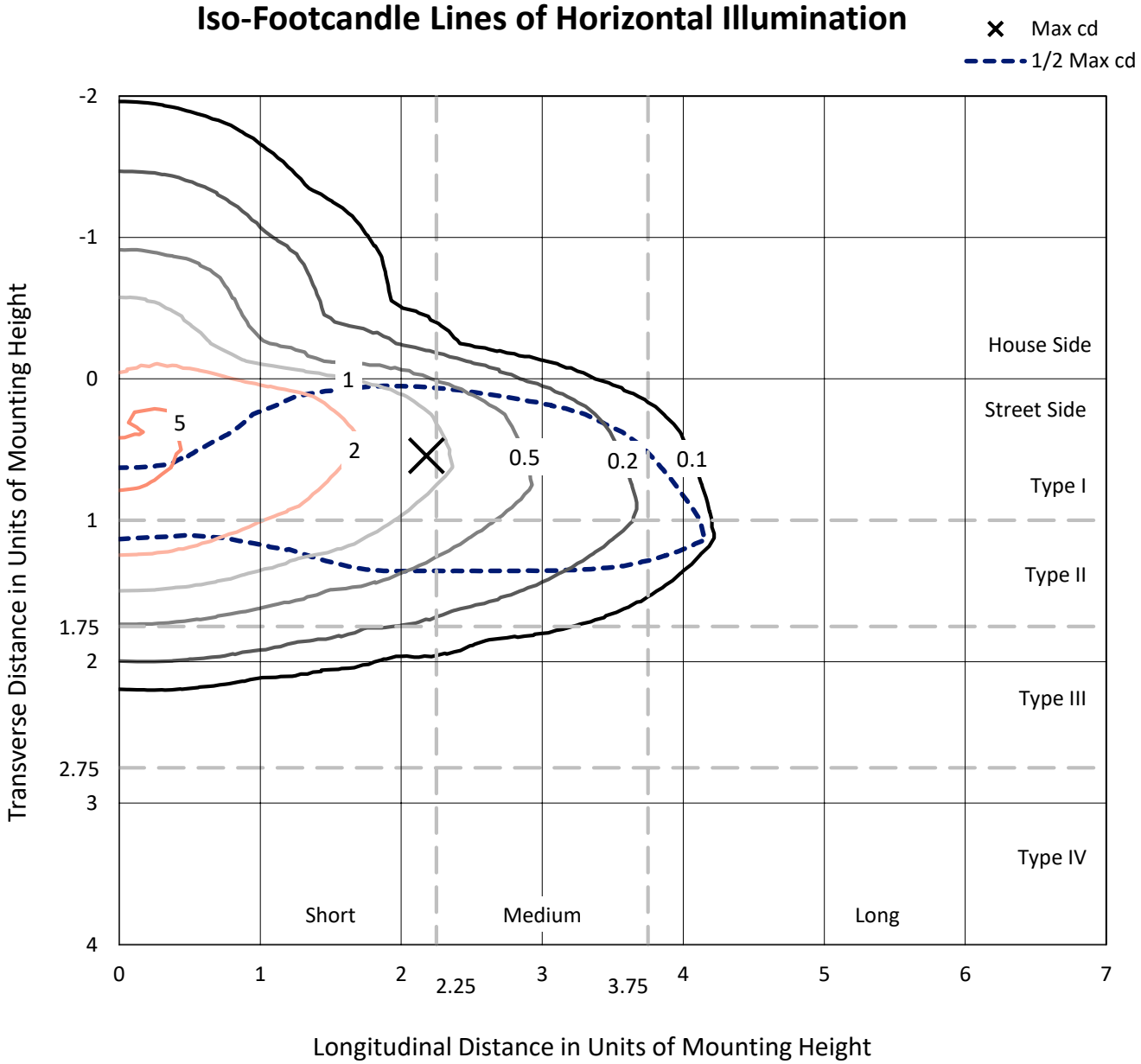
Input Watts (W):	124
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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

Scaled Data Report

REPORT NUMBER: P317597
CATALOG NUMBER: GLEON-SA3B-830-U-T2R

Iso-Footcandle Lines of Horizontal Illumination



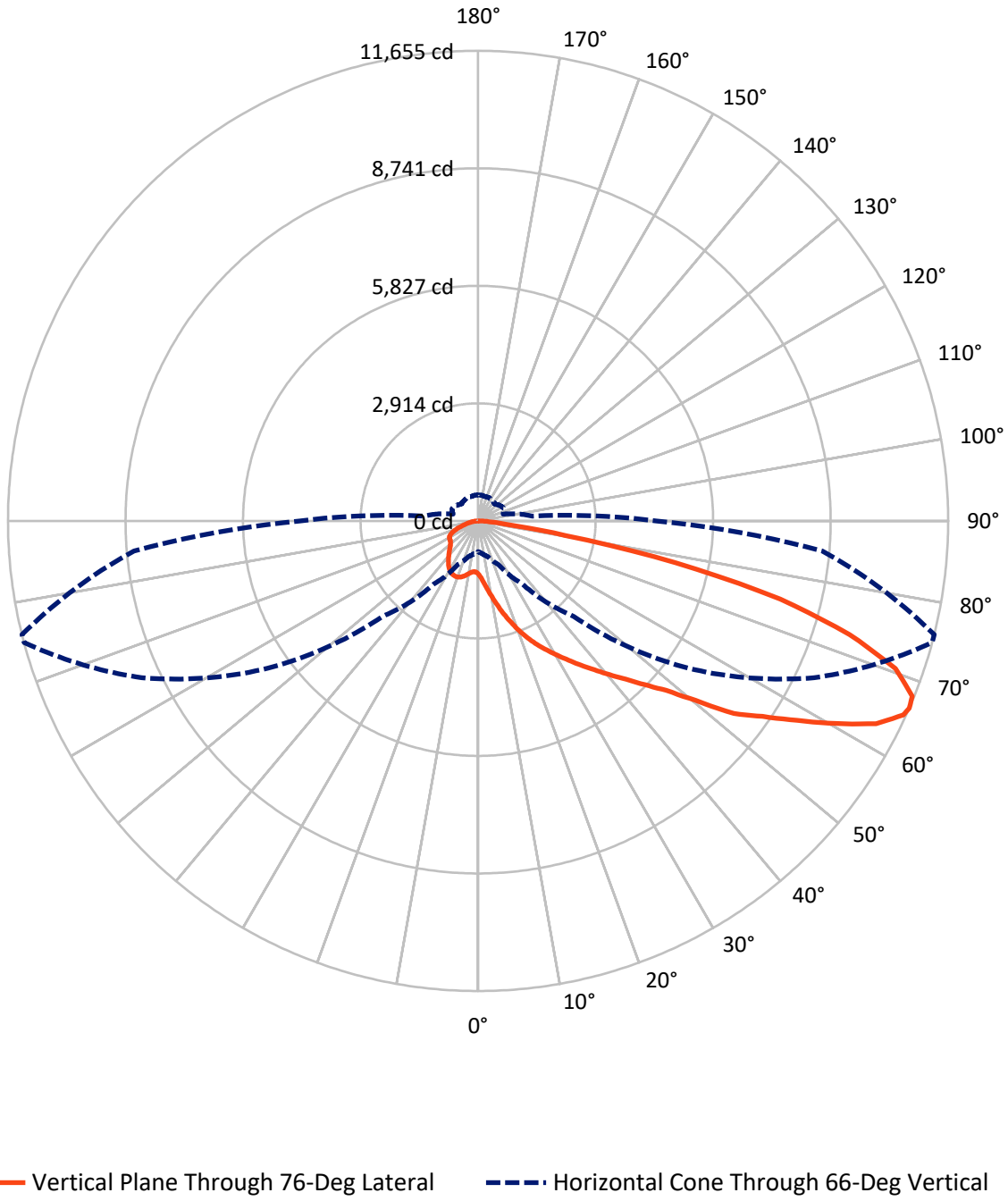
Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
Type II - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P317597
CATALOG NUMBER: GLEON-SA3B-830-U-T2R

Luminous Intensity Polar Plot



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

Scaled Data Report

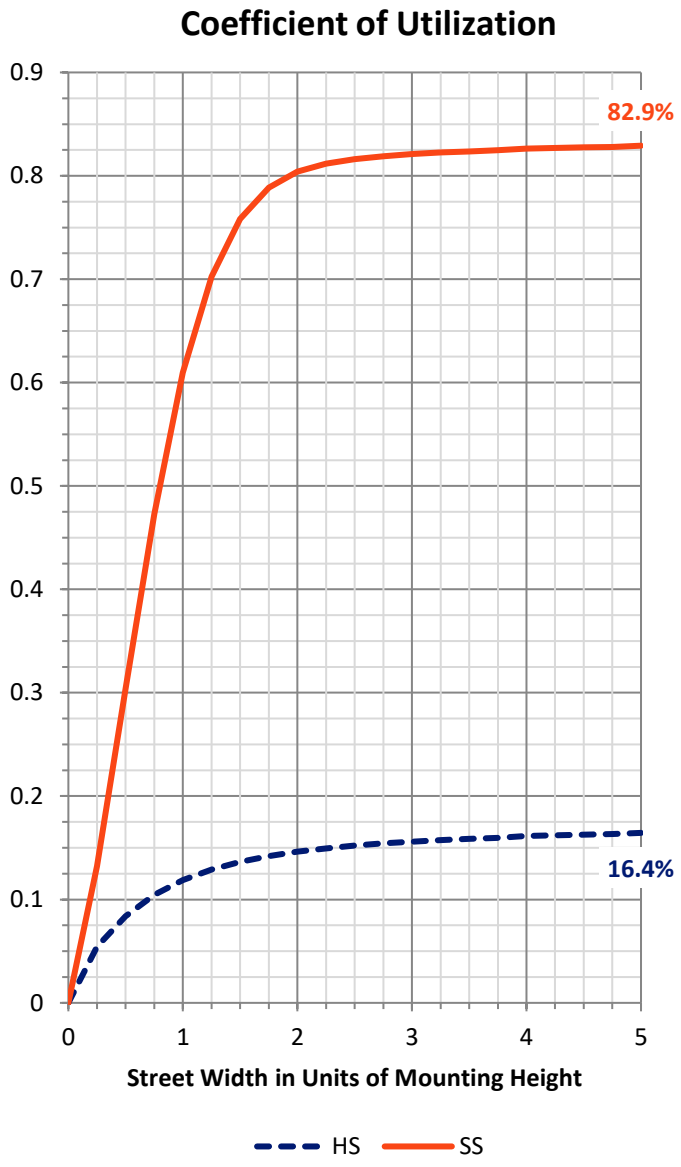
REPORT NUMBER: P317597
CATALOG NUMBER: GLEON-SA3B-830-U-T2R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2430.3	0.0	2430.3
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	12012.7	0.0	12012.7
	% Fixture	83.2	0.0	83.2
Total	Lumens	14443.0	0.0	14443.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.5	1.1
10°-20°	629.9	4.4
20°-30°	1224.0	8.5
30°-40°	1997.8	13.8
40°-50°	2729.4	18.9
50°-60°	3179.2	22.0
60°-70°	2850.2	19.7
70°-80°	1440.4	10.0
80°-90°	232.6	1.6
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°	14443.0	100.0
0°-180°	14443.0	100.0



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

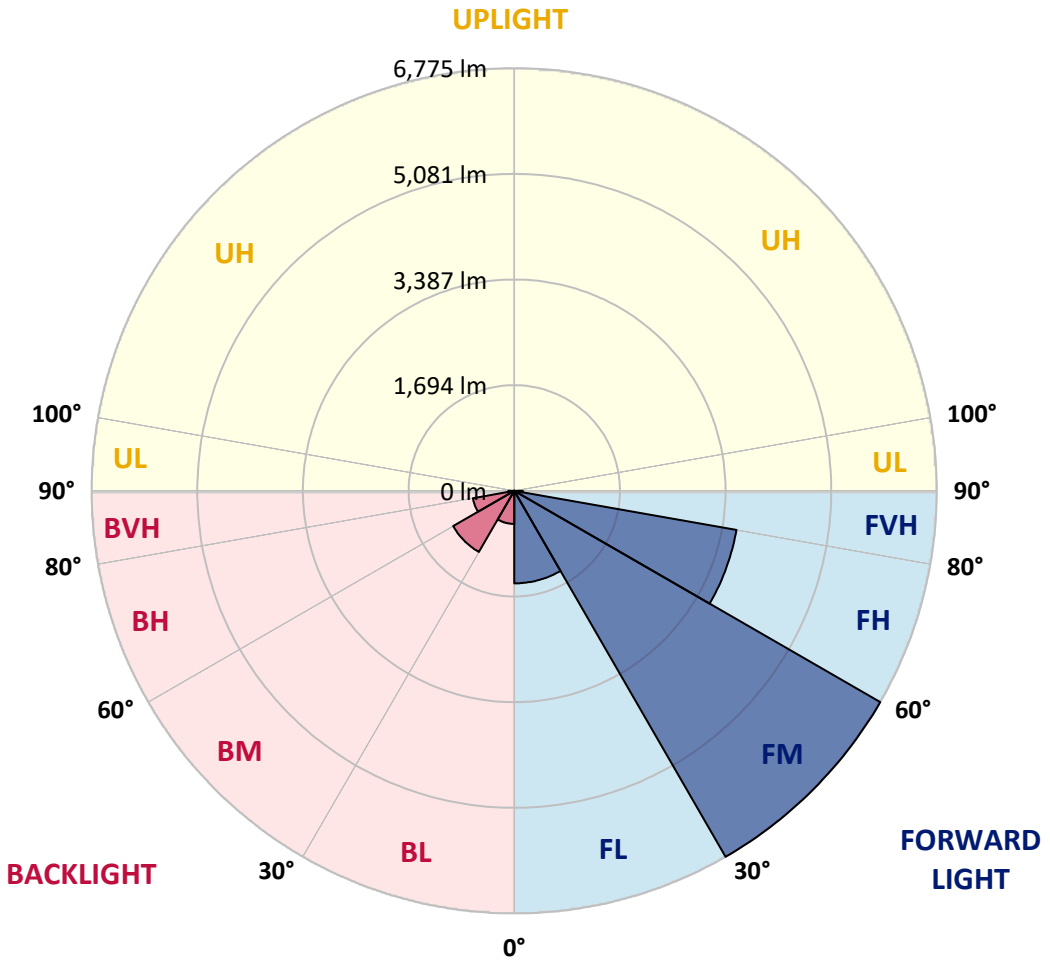
Scaled Data Report

REPORT NUMBER: P317597
CATALOG NUMBER: GLEON-SA3B-830-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1483.3	10.3			
FM	(30°-60°)	6774.8	46.9			
FH	(60°-80°)	3617.3	25.0			G2/5000
FVH	(80°-90°)	137.4	1.0			G2/225
BL	(0°-30°)	530.1	3.7	B2/1000		
BM	(30°-60°)	1131.7	7.8	B2/2500		
BH	(60°-80°)	673.3	4.7	B2/1000		G2/1000
BVH	(80°-90°)	95.2	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
Type II Short



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

Scaled Data Report

REPORT NUMBER: P317597
CATALOG NUMBER: GLEON-SA3B-830-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1319.0	1319.0	1319.0	1319.0	1319.0	1319.0	1319.0	1319.0	1319.0	*1319.0*	1319.0
2.5°	1750.9	1724.5	1722.0	1683.3	1674.5	1600.4	1546.0	1489.1	1424.4	*1411.6*	1360.6
5°	2249.1	2246.7	2212.8	2149.6	2100.1	1973.6	1848.5	1716.1	1571.0	*1547.5*	1432.7
7.5°	2697.3	2693.3	2667.4	2599.2	2527.6	2372.2	2193.7	1990.7	1755.4	*1720.5*	1530.3
10°	3037.6	3036.1	3027.3	2977.2	2916.4	2767.4	2570.3	2293.2	1969.6	*1922.1*	1652.4
12.5°	3300.4	3303.3	3309.2	3291.5	3262.6	3135.6	2933.6	2613.9	2198.1	*2151.1*	1788.2
15°	3478.4	3487.2	3517.6	3542.6	3557.8	3479.8	3284.2	2941.9	2454.1	*2397.7*	1938.7
17.5°	3568.1	3577.9	3630.4	3705.9	3775.5	3767.6	3612.2	3254.8	2699.7	*2645.3*	2100.5
20°	3645.6	3652.9	3711.8	3802.5	3925.5	3980.0	3892.7	3555.8	2968.9	*2904.2*	2272.2
22.5°	3870.1	3879.4	3897.1	3948.6	4057.4	4157.5	4115.3	3840.7	3215.5	*3155.2*	2434.9
25°	4303.6	4314.9	4276.6	4233.0	4253.6	4323.2	4331.0	4100.6	3465.6	*3397.5*	2610.0
27.5°	4825.8	4841.9	4776.7	4664.5	4566.4	4539.4	4530.1	4313.4	3704.4	*3625.5*	2783.1
30°	5337.2	5365.1	5280.3	5134.7	4954.7	4828.2	4734.6	4521.8	3939.8	*3864.2*	2946.4
32.5°	5836.8	5825.5	5702.5	5560.3	5349.4	5191.1	4964.5	4745.4	4204.5	*4117.7*	3108.7
35°	6179.1	6183.0	6068.7	5900.1	5699.0	5577.4	5272.5	4986.6	4474.7	*4394.8*	3293.0
37.5°	6470.3	6452.2	6322.7	6165.3	5992.3	5940.3	5632.8	5252.4	4767.4	*4680.1*	3489.1
40°	6567.4	6546.3	6461.5	6348.2	6209.5	6205.1	6030.5	5553.4	5098.4	*5012.1*	3710.3
42.5°	6508.6	6481.6	6446.8	6415.9	6373.2	6392.8	6404.1	5906.4	5462.2	*5365.6*	3966.2
45°	6291.3	6250.7	6275.2	6342.3	6435.0	6545.8	6741.5	6297.2	5869.7	*5788.8*	4266.8
47.5°	5957.4	5920.7	5997.2	6140.8	6392.8	6673.3	7060.7	6728.7	6356.1	*6275.7*	4694.9
50°	5487.7	5498.5	5607.8	5869.2	6250.2	6732.1	7453.9	7299.9	7063.1	*6988.1*	5278.8
52.5°	4716.9	4718.9	5026.8	5455.8	5997.2	6701.7	7672.1	8030.0	8028.6	*7937.9*	5834.9
55°	4001.0	4044.7	4288.4	4858.6	5587.2	6580.1	7824.6	8385.0	8662.6	*8556.2*	6353.1
57.5°	3301.8	3327.3	3558.3	4131.0	5002.3	6256.0	7981.0	8811.1	9393.1	*9326.0*	6997.4
60°	2506.5	2545.8	2784.6	3313.6	4254.1	5680.9	7995.7	9255.8	10266.4	*10198.7*	7716.7
62.5°	1626.9	1694.6	1918.1	2413.9	3348.9	4853.7	7654.4	9546.6	11094.1	*11070.0*	8355.1
65°	935.0	986.0	1141.5	1523.9	2310.4	3815.2	6843.0	9434.8	11603.5	*11589.8*	8593.9
66°	*763.9*	*795.8*	*914.9*	*1191.0*	*1906.4*	*3350.4*	*6371.3*	*9199.0*	*11654.0*	*11654.5*	*8566.5*
67.5°	610.9	625.2	678.6	852.7	1406.7	2655.6	5528.4	8678.7	11591.3	*11608.4*	8389.4
70°	505.5	512.9	529.5	571.7	767.8	1601.4	3924.1	7326.9	10961.2	*10974.4*	7698.6
72.5°	453.5	458.0	464.3	470.2	541.8	894.8	2396.7	5861.3	9610.4	*9627.5*	6645.9
75°	410.9	413.3	412.4	412.9	454.5	570.2	1238.6	4376.1	7770.7	*7736.3*	5091.0
77.5°	360.9	363.3	358.4	359.4	402.1	438.3	616.3	3063.5	5244.0	*5001.8*	2868.4
80°	305.0	306.9	305.0	308.4	350.1	331.0	358.4	1723.5	2318.7	*2193.2*	1019.9
82.5°	230.5	238.8	244.7	258.4	288.3	235.4	239.8	671.3	706.1	*672.2*	312.8
85°	101.0	123.1	184.4	197.6	216.7	141.2	157.4	273.6	287.3	*278.5*	113.8
87.5°	26.5	28.9	91.2	114.7	120.1	63.7	81.9	124.5	131.4	*124.5*	37.8
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: P317597
CATALOG NUMBER: GLEON-SA3B-830-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1319.0	1319.0	1319.0	1319.0	1319.0	1319.0	1319.0	1319.0	1319.0	1319.0	1319.0
2.5°	1333.7	1309.7	1266.5	1228.3	1199.3	1179.7	1160.1	1150.3	1144.4	1138.5	1139.5
5°	1376.3	1327.8	1253.8	1201.3	1171.9	1153.2	1143.4	1139.5	1137.1	1131.2	1131.2
7.5°	1440.6	1371.9	1269.9	1216.0	1193.0	1178.7	1172.9	1170.9	1168.0	1161.1	1162.1
10°	1521.5	1425.4	1303.8	1251.3	1230.2	1214.5	1206.2	1203.3	1197.9	1190.0	1191.0
12.5°	1616.6	1491.6	1348.4	1293.5	1268.0	1246.9	1233.2	1224.8	1215.5	1205.2	1205.7
15°	1720.5	1563.6	1396.4	1331.2	1296.4	1267.0	1244.9	1230.7	1216.0	1203.3	1202.8
17.5°	1826.0	1633.3	1433.2	1351.8	1304.8	1266.0	1236.1	1214.0	1195.9	1180.2	1178.7
20°	1939.7	1696.0	1453.8	1349.9	1289.1	1243.0	1203.3	1175.8	1155.7	1140.0	1137.6
22.5°	2055.4	1754.9	1457.2	1329.8	1254.2	1197.9	1156.2	1125.8	1105.2	1089.0	1083.1
25°	2161.3	1800.5	1443.0	1291.0	1205.7	1144.9	1104.2	1073.3	1056.6	1037.5	1031.6
27.5°	2257.9	1832.3	1414.6	1241.5	1151.3	1091.5	1053.2	1026.7	1008.6	993.9	989.0
30°	2344.7	1849.5	1368.0	1182.7	1095.4	1041.0	1008.6	990.5	974.8	956.1	952.7
32.5°	2427.1	1849.5	1308.2	1118.4	1040.0	996.3	977.2	965.9	948.3	930.1	925.2
35°	2509.5	1838.2	1237.6	1051.3	989.0	964.5	963.5	950.2	923.3	898.8	892.4
37.5°	2596.3	1815.2	1158.1	988.5	947.3	950.2	958.6	929.2	890.9	856.1	846.8
40°	2694.3	1783.3	1075.8	934.1	912.5	943.9	945.3	898.8	824.2	792.4	784.0
42.5°	2809.6	1751.4	999.3	886.0	885.0	924.8	920.3	833.1	788.4	772.3	767.8
45°	2961.1	1733.3	926.7	840.4	863.5	893.9	877.7	796.8	778.1	768.8	764.9
47.5°	3199.9	1742.6	860.0	804.1	841.9	863.0	798.2	782.1	768.8	757.6	753.6
50°	3499.0	1737.2	806.1	779.1	817.4	830.6	762.5	762.9	756.1	743.3	737.4
52.5°	3724.0	1695.1	771.3	764.9	795.8	773.2	739.9	744.3	740.9	722.2	715.9
55°	3941.2	1658.8	753.6	759.5	780.1	701.7	713.4	724.2	720.8	702.6	699.7
57.5°	4211.4	1651.9	742.8	761.0	766.9	665.9	687.9	702.1	699.7	691.8	690.4
60°	4542.4	1653.9	733.0	763.4	752.2	639.4	663.9	682.0	683.5	682.0	681.1
62.5°	4724.3	1600.4	708.5	756.6	726.2	616.3	638.9	665.4	665.9	668.8	668.3
65°	4569.8	1440.6	662.9	732.5	682.5	597.2	617.3	646.2	638.9	652.1	652.1
66°	*4419.8*	*1348.4*	*640.4*	*716.9*	*663.9*	*589.9*	*610.5*	*636.4*	*627.1*	*645.3*	*645.3*
67.5°	4113.3	1193.0	599.7	683.5	637.4	579.6	602.6	620.3	607.5	634.5	632.5
70°	3553.4	922.8	517.8	608.0	593.8	564.4	591.8	587.9	569.3	610.5	602.6
72.5°	2995.9	701.2	415.8	509.0	527.6	545.2	576.6	546.7	523.2	552.1	534.9
75°	2324.6	527.1	328.5	395.7	445.7	515.3	558.5	499.1	465.3	462.4	453.1
77.5°	1256.7	361.9	260.4	302.0	354.0	478.1	546.2	448.2	397.2	385.4	378.0
80°	497.7	235.4	189.3	229.0	247.6	424.1	516.8	388.8	327.5	315.8	304.5
82.5°	205.4	139.3	122.1	153.5	161.3	362.8	463.8	318.7	253.0	350.1	371.7
85°	88.3	76.5	72.6	79.4	91.2	254.5	369.2	243.2	273.1	243.7	193.7
87.5°	26.5	32.4	30.9	30.4	33.3	60.8	196.6	135.3	200.5	76.0	56.9
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

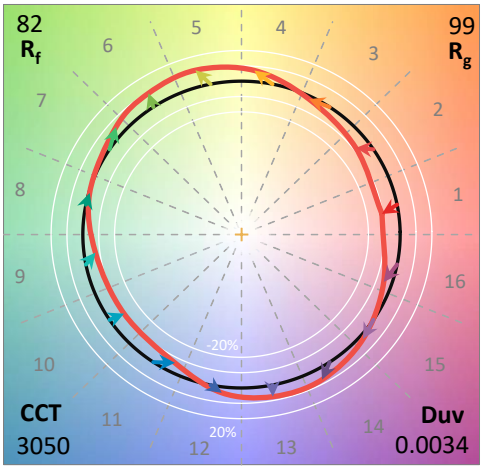
Test Information

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

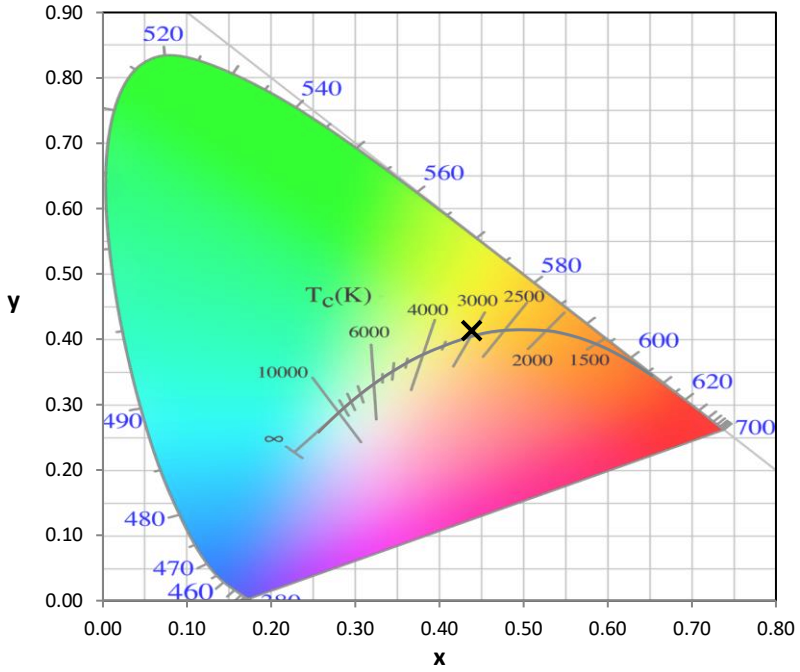
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

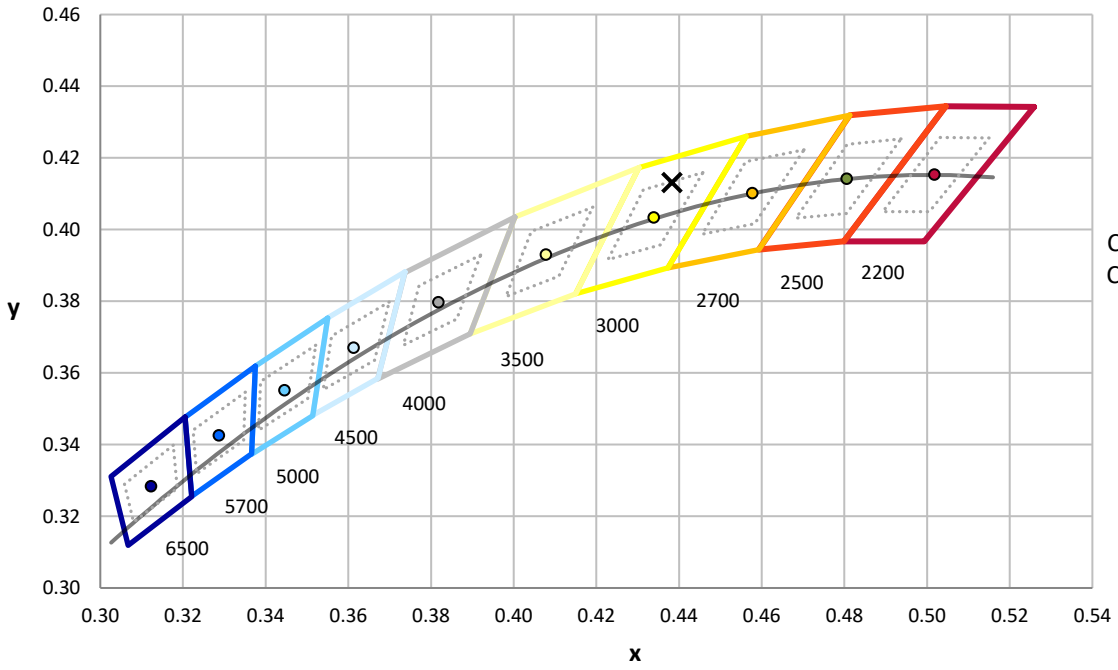
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

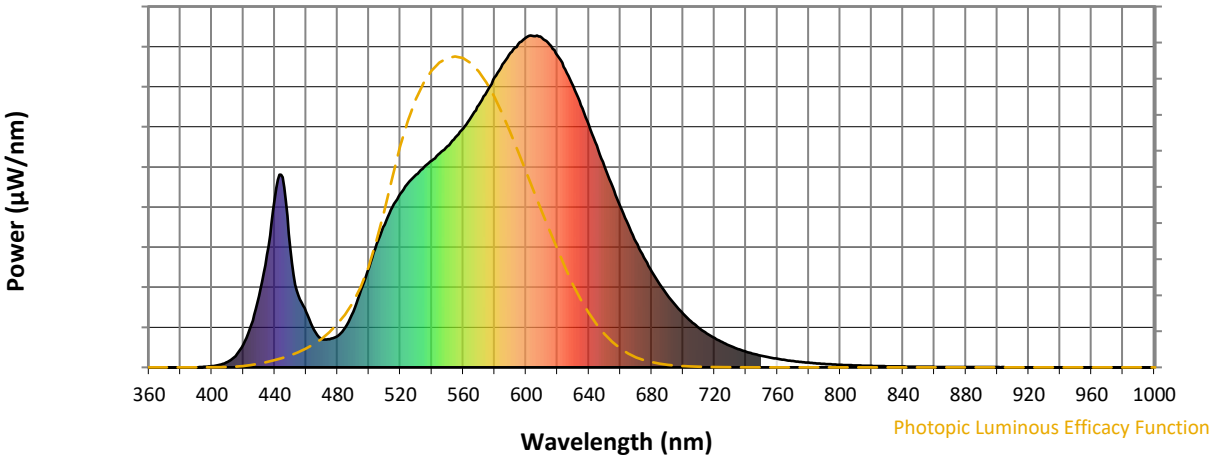


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

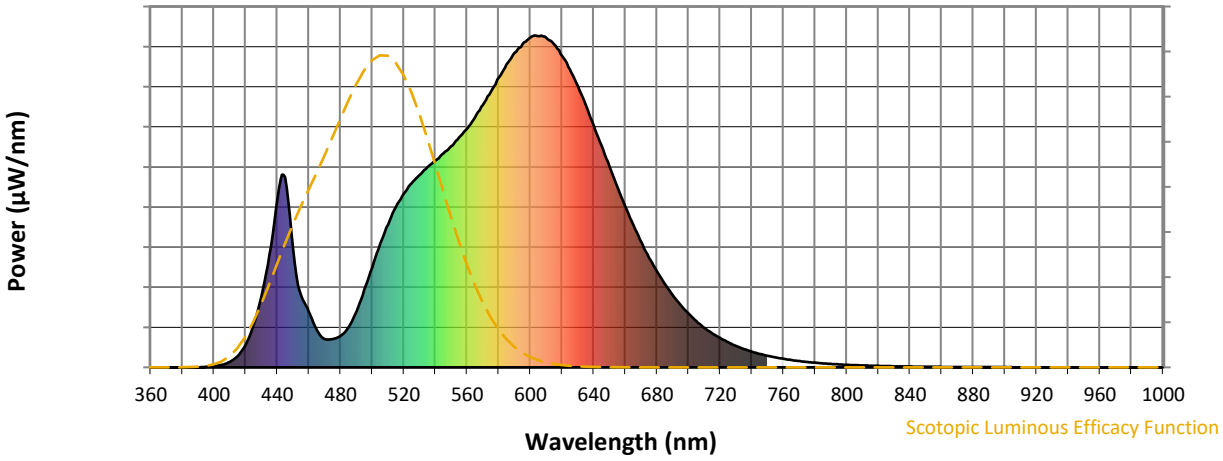


Photopic Lumens: NR

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

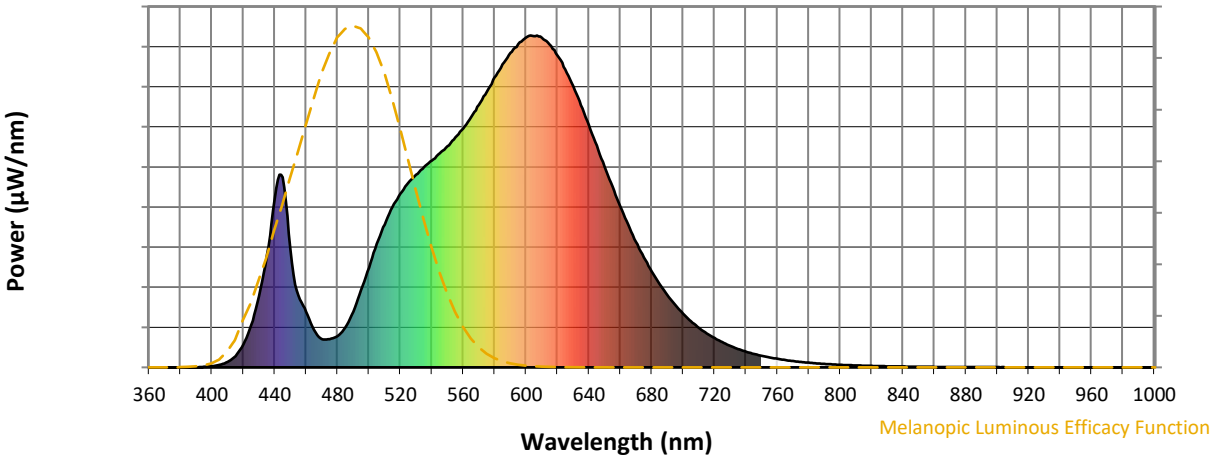


Scotopic Lumens: NR **S/P: 1.27**

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			

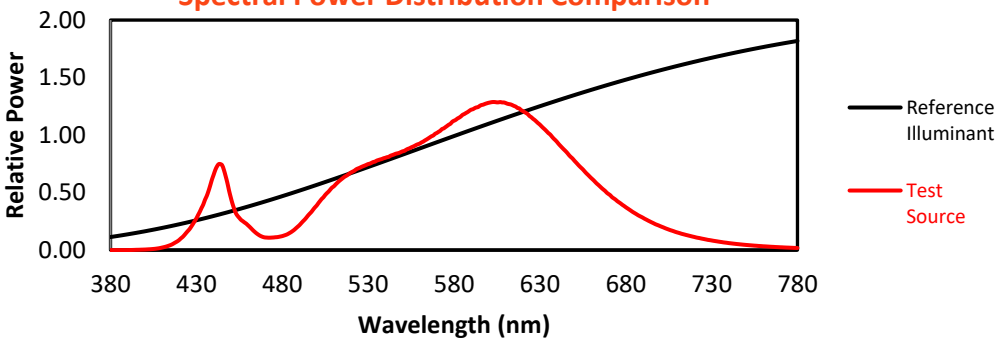
REPORT NUMBER: SP1-2408-195-9

TM-30-18

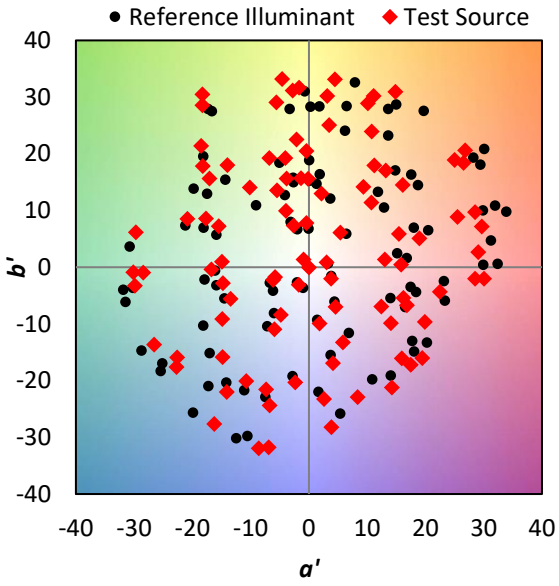
Summary

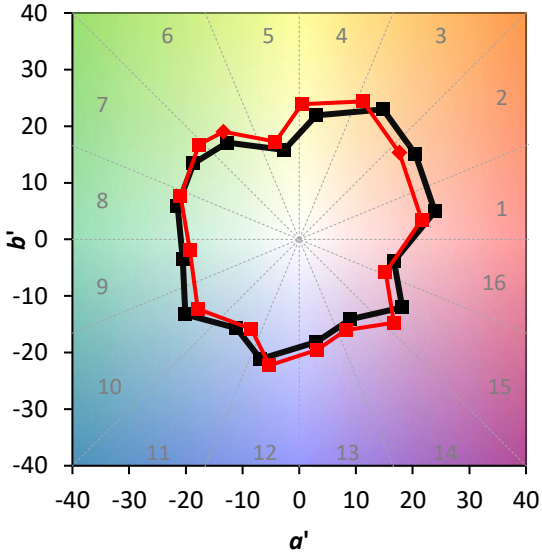
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

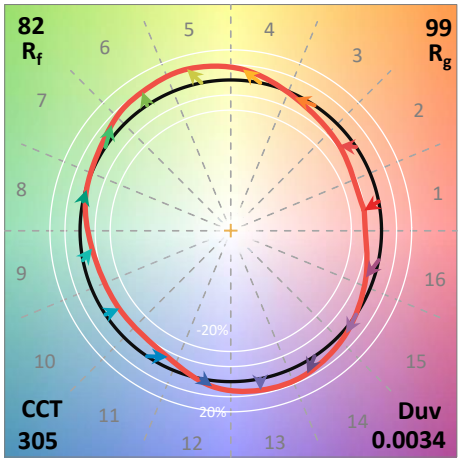
Spectral Power Distribution Comparison

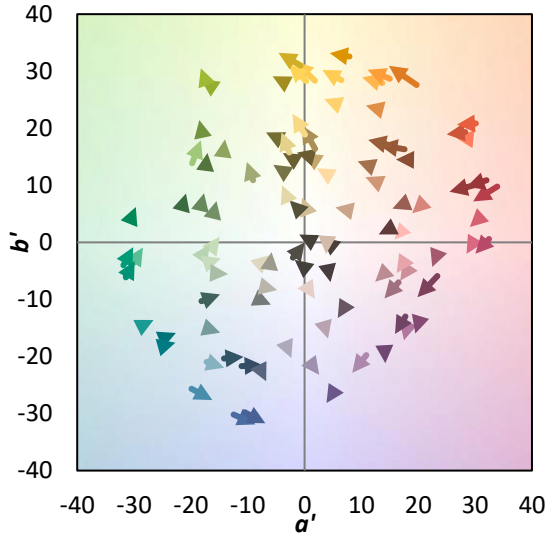


Color Vector Graphics







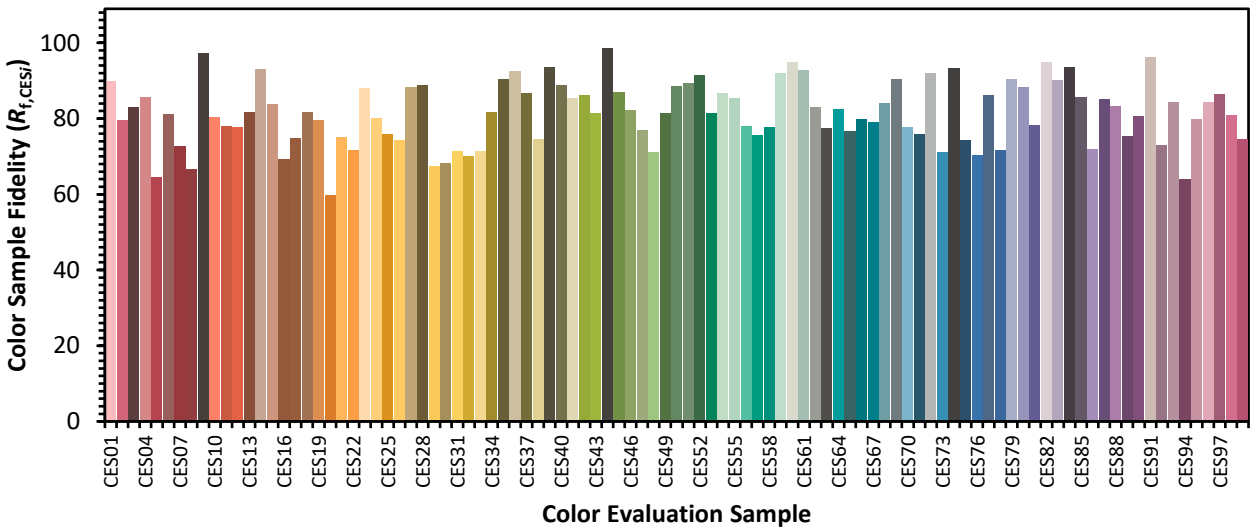


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

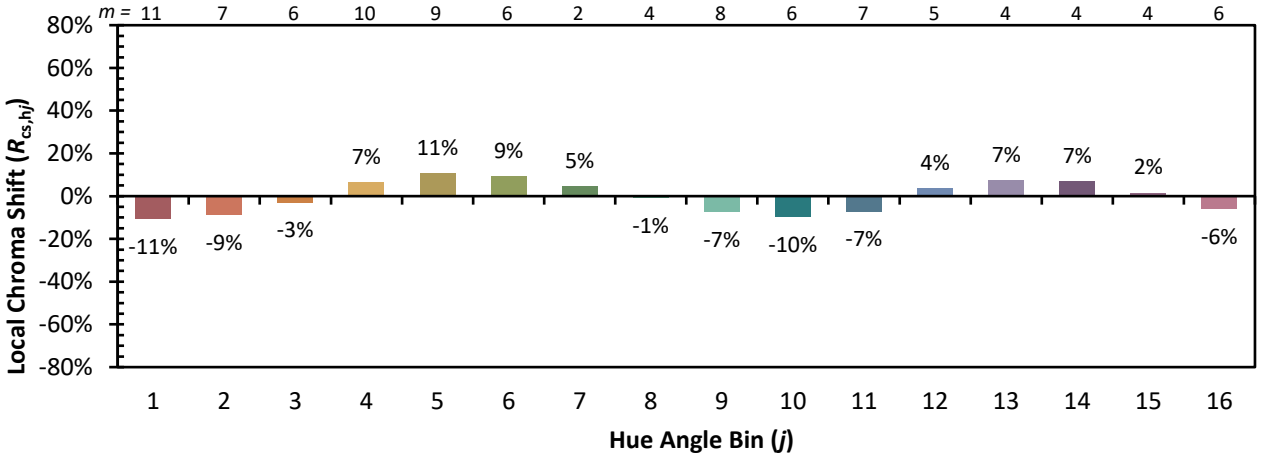
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

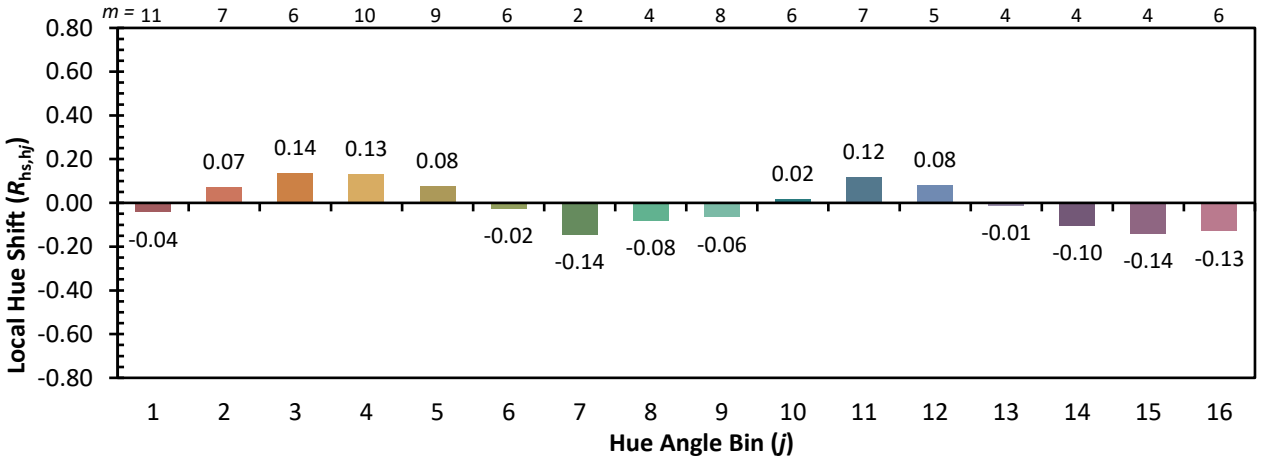


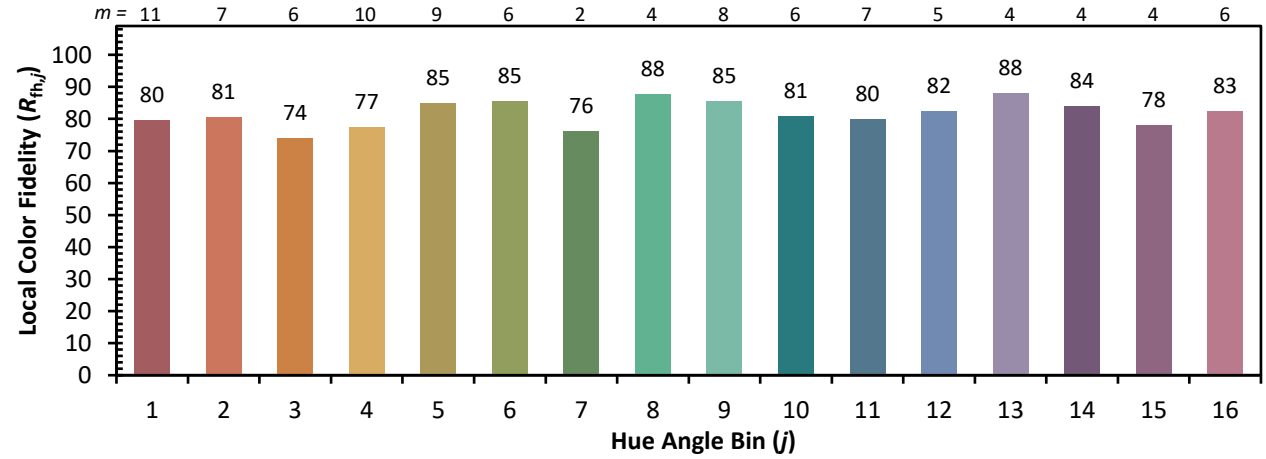
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



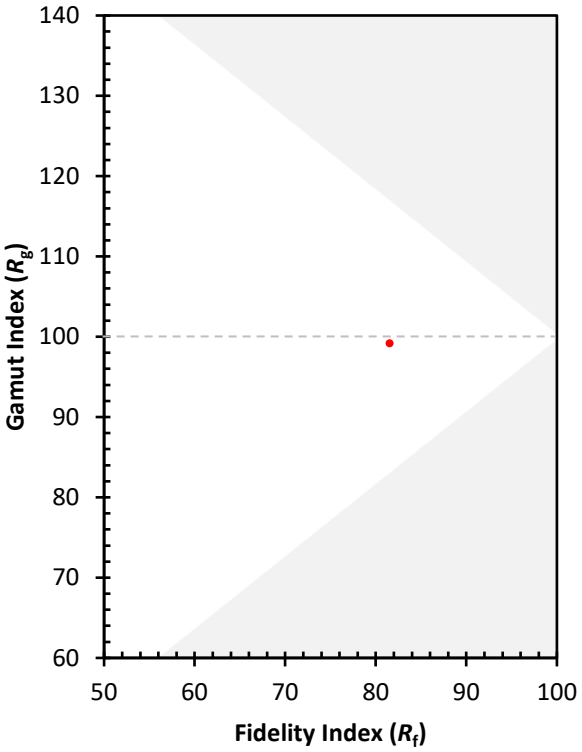


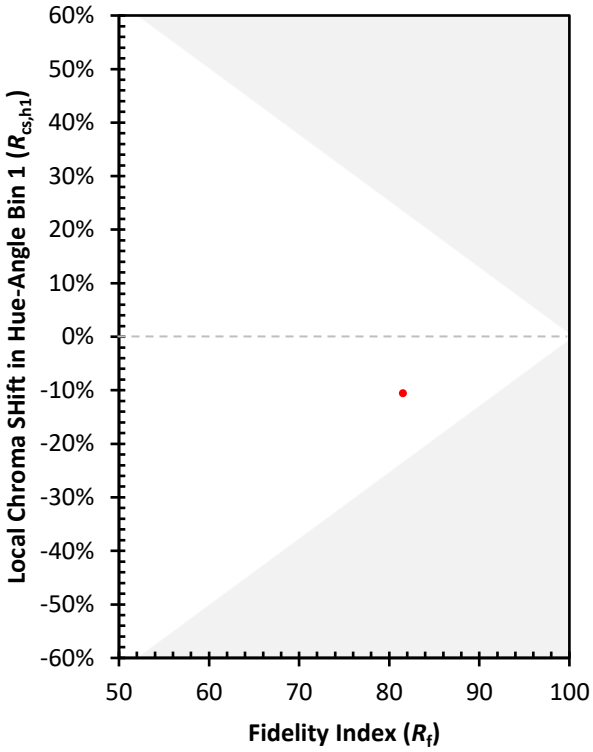


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)