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: P324024

Luminaire Tested: **GLEON-SA0D-830-U-SL4-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:	P324024
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA0D-830-U-SL4-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(10) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
	SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	49531 lumens
Efficiency:	N/A
Efficacy:	77.4 lumens/watt
Luminous Opening:	Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B3 - U0 - G5

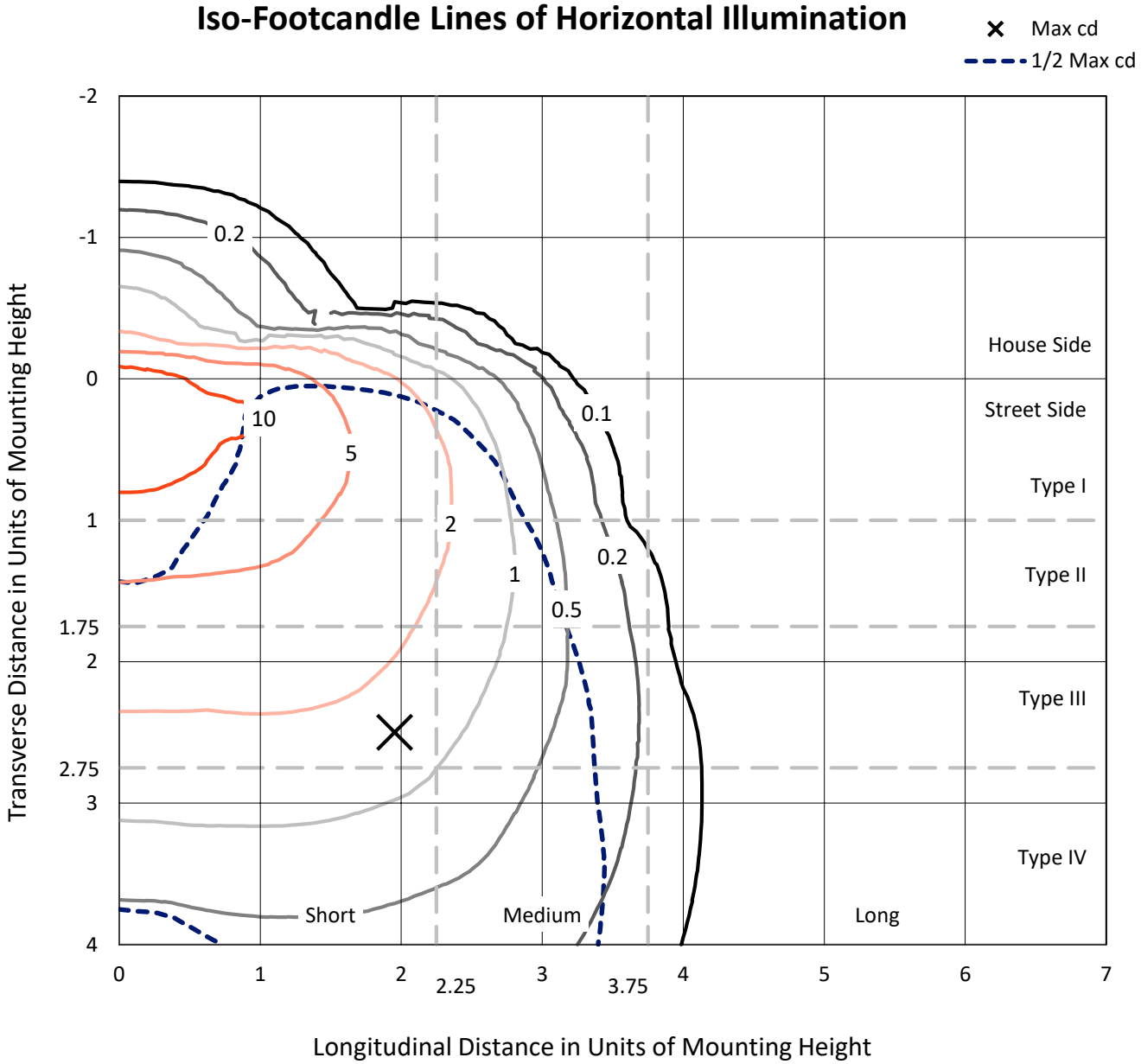
Input Watts (W):	640
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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

Scaled Data Report

REPORT NUMBER: P324024
CATALOG NUMBER: GLEON-SA0D-830-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination



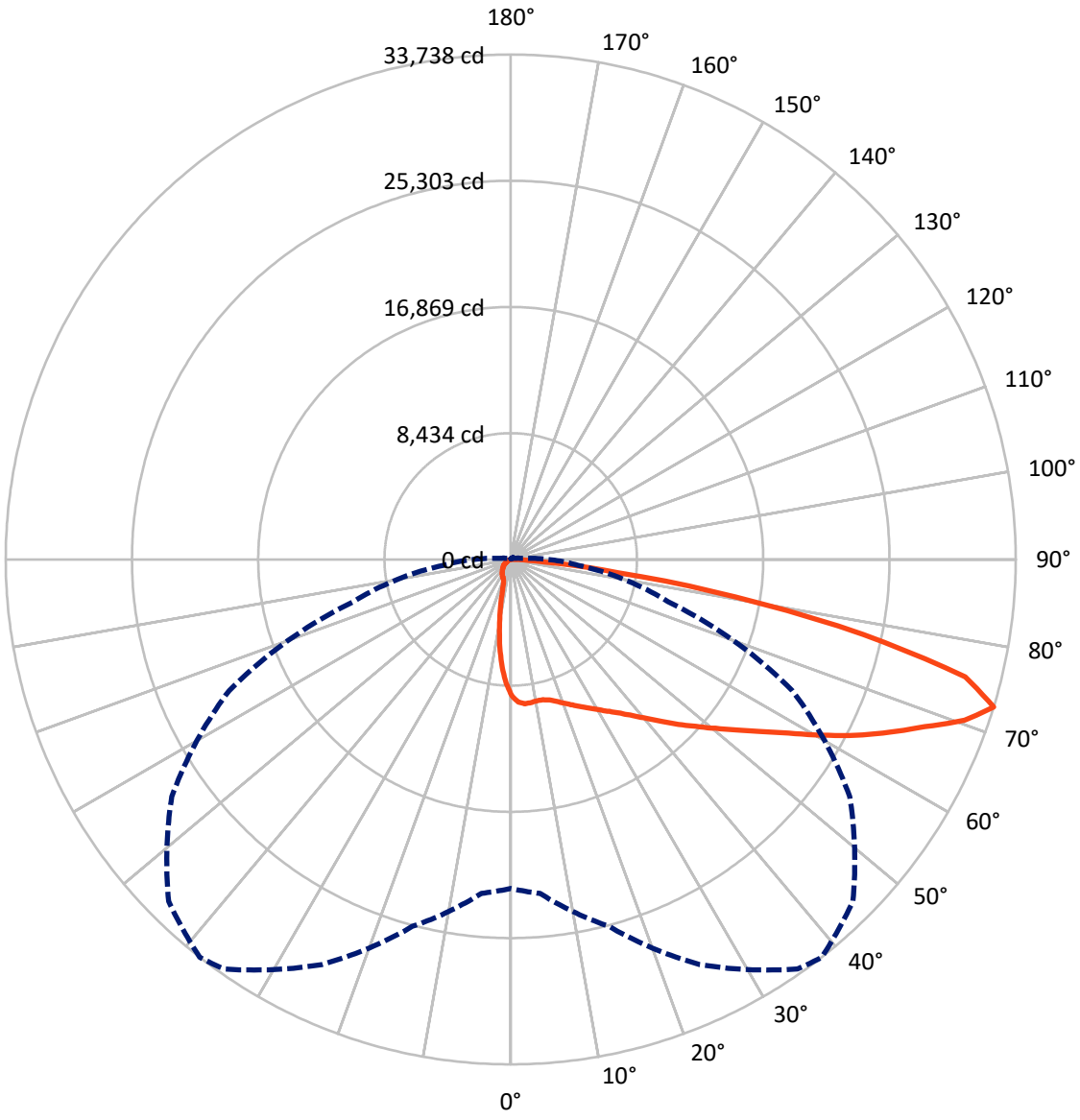
Based on 25 foot mounting height. Maximum calculated value = 15.4 fc
Type IV - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P324024
CATALOG NUMBER: GLEON-SA0D-830-U-SL4-HSS

Luminous Intensity Polar Plot



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

Scaled Data Report

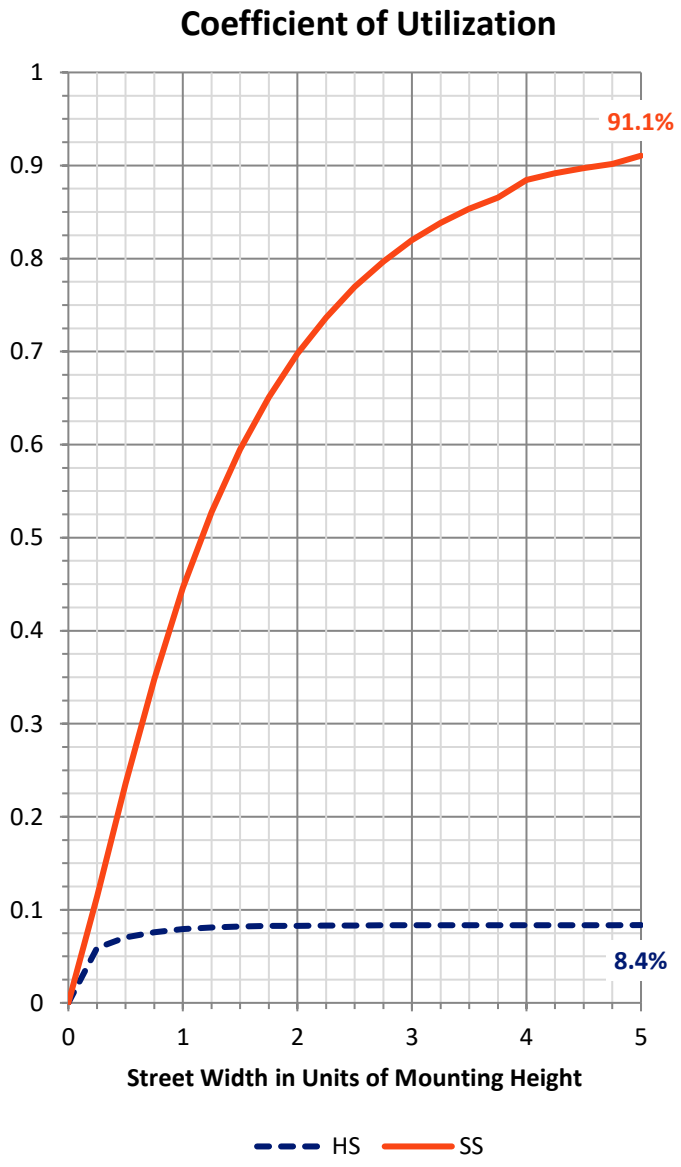
REPORT NUMBER: P324024
CATALOG NUMBER: GLEON-SA0D-830-U-SL4-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4168.2	0.0	4168.2
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	45362.8	0.0	45362.8
	% Fixture	91.6	0.0	91.6
Total	Lumens	49531.0	0.0	49531.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	776.2	1.6
10°-20°	1898.1	3.8
20°-30°	3018.8	6.1
30°-40°	4538.5	9.2
40°-50°	6923.7	14.0
50°-60°	9785.6	19.8
60°-70°	12274.4	24.8
70°-80°	9177.8	18.5
80°-90°	1138.0	2.3
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°	49531.0	100.0
0°-180°	49531.0	100.0



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

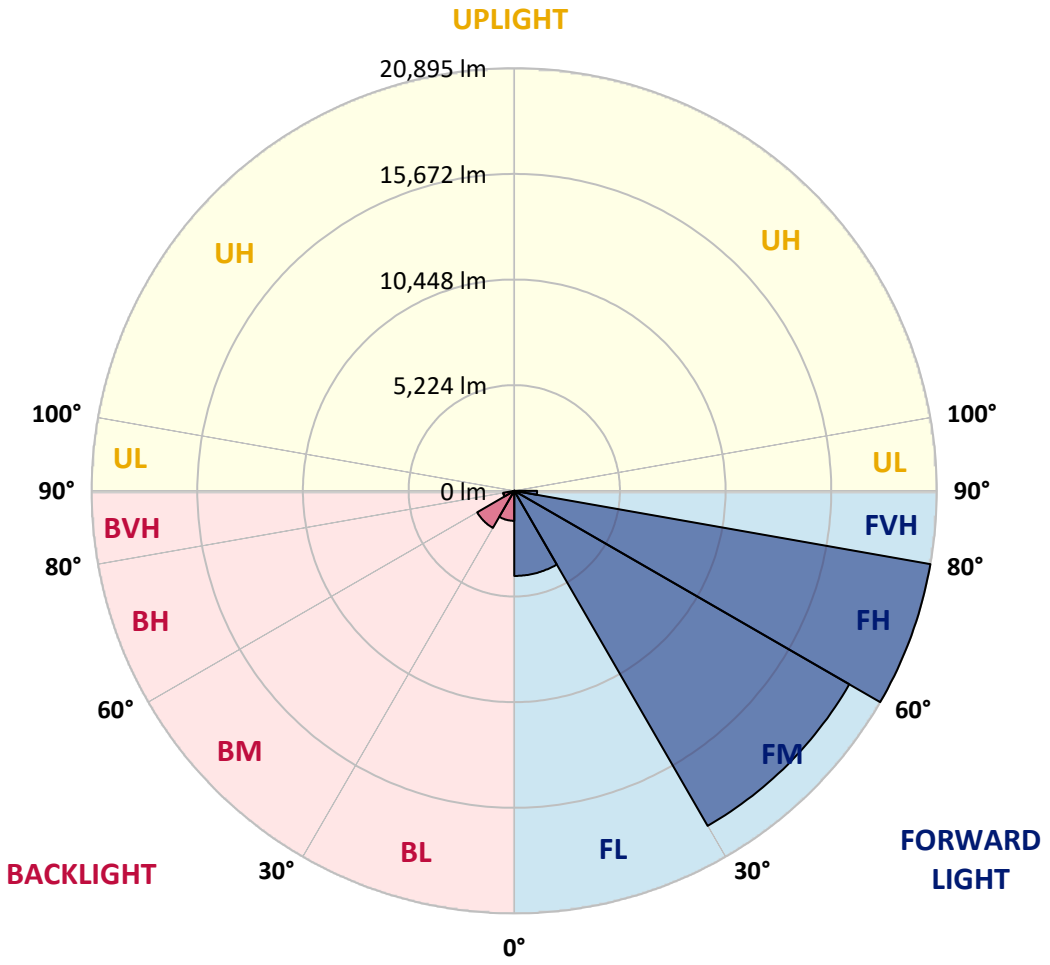
Scaled Data Report

REPORT NUMBER: P324024
CATALOG NUMBER: GLEON-SA0D-830-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	4208.9	8.5			
FM	(30°-60°)	19131.1	38.6			
FH	(60°-80°)	20895.4	42.2			G5
FVH	(80°-90°)	1127.4	2.3			G5
BL	(0°-30°)	1484.1	3.0	B3/2500		
BM	(30°-60°)	2116.7	4.3	B2/2500		
BH	(60°-80°)	556.8	1.1	B2/1000		G2/1000
BVH	(80°-90°)	10.6	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
Type IV Short



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

Scaled Data Report

REPORT NUMBER: P324024
CATALOG NUMBER: GLEON-SA0D-830-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	9108.6	9108.6	9108.6	9108.6	9108.6	*9108.6*	9108.6	9108.6	9108.6	9108.6	9108.6
2.5°	9668.1	9670.2	9647.5	9610.5	9563.2	*9538.5*	9497.4	9431.5	9361.6	9236.1	9100.4
5°	9865.6	9865.6	9836.8	9787.4	9711.3	*9688.7*	9610.5	9505.6	9361.6	9158.0	8929.6
7.5°	9845.0	9849.1	9810.0	9758.6	9682.5	*9661.9*	9567.3	9450.1	9271.1	9024.2	8732.1
10°	9738.0	9748.3	9717.5	9692.8	9622.8	*9600.2*	9511.8	9394.5	9215.6	8952.3	8617.0
12.5°	9629.0	9639.3	9649.6	9672.2	9629.0	*9620.8*	9550.9	9452.1	9281.4	9007.8	8629.3
15°	9559.1	9579.7	9653.7	9742.2	9752.4	*9744.2*	9699.0	9606.4	9433.6	9149.7	8717.7
17.5°	9559.1	9592.0	9746.3	9914.9	9974.6	*9980.8*	9941.7	9812.1	9606.4	9301.9	8800.0
20°	9639.3	9684.6	9925.2	10163.9	10262.6	*10262.6*	10186.5	10005.5	9764.8	9439.8	8855.6
22.5°	9845.0	9904.7	10207.0	10482.7	10587.6	*10565.0*	10462.1	10198.8	9929.3	9596.1	8925.5
25°	10250.2	10295.5	10610.2	10887.9	10951.7	*10900.3*	10770.7	10433.3	10139.2	9808.0	9053.0
27.5°	10772.7	10778.9	11103.9	11338.4	11299.3	*11264.4*	11101.9	10727.5	10441.6	10110.4	9273.2
30°	11346.7	11346.7	11632.6	11811.5	11692.2	*11663.4*	11500.9	11083.3	10828.3	10521.8	9585.8
32.5°	11902.1	11926.7	12159.2	12272.3	12138.6	*12109.8*	11951.4	11533.8	11342.5	11149.2	10073.3
35°	12438.9	12457.5	12677.6	12739.3	12611.7	*12620.0*	12506.8	12153.0	12081.0	12056.3	10807.7
37.5°	12959.4	12963.5	13187.7	13226.8	13163.0	*13233.0*	13243.2	12930.6	13064.3	13263.8	11842.4
40°	13434.5	13438.7	13660.8	13761.6	13870.6	*13961.2*	14041.4	13874.8	14317.0	14779.9	13074.6
42.5°	13815.1	13858.3	14140.1	14331.4	14619.4	*14792.2*	15010.2	15002.0	15808.4	16503.7	14563.9
45°	14150.4	14224.5	14617.3	14952.6	15446.3	*15722.0*	16063.5	16330.9	17486.9	18422.9	16071.7
47.5°	14592.7	14662.6	15111.0	15660.3	16318.5	*16680.6*	17246.3	17824.3	19332.1	20307.1	17544.5
50°	15215.9	15185.1	15627.4	16415.2	17260.7	*17735.8*	18542.2	19408.2	21162.9	21948.7	18410.5
52.5°	15880.4	15868.0	16195.1	17236.0	18371.5	*18926.9*	19992.4	21045.6	22913.4	23080.0	18807.5
55°	16703.2	16614.7	16890.4	18171.9	19690.0	*20286.6*	21541.4	22666.6	24308.1	23717.7	19007.1
57.5°	17565.1	17419.0	17682.3	19214.8	21177.3	*21882.8*	23256.9	24246.4	25235.8	24153.8	19005.0
60°	18455.8	18283.0	18595.7	20519.0	23024.5	*23841.1*	25116.5	25314.0	26101.8	24373.9	18865.1
62.5°	19200.4	19097.6	19562.5	21913.7	25087.7	*25889.9*	26521.5	26284.9	26832.1	24544.6	18538.1
65°	19988.3	19994.5	20745.3	23540.8	27280.5	*27821.5*	27875.0	27543.8	27443.0	24509.7	17431.4
67.5°	21053.8	21152.6	22405.3	25750.1	29413.7	*29831.2*	29827.1	28907.6	27889.4	23119.1	14977.3
70°	22181.1	22413.5	24318.4	28278.2	31742.2	*32166.0*	31947.9	29775.7	26260.2	18694.4	10599.9
72.5°	*21991.8*	*22395.0*	*25381.9*	*29872.4*	*33414.6*	*33737.6*	*32320.3*	*27642.5*	*20755.6*	*10865.3*	*4513.2*
75°	16966.5	17433.4	23273.4	28292.6	31660.0	*31369.9*	27770.1	21510.5	11342.5	3032.1	1016.2
77.5°	8962.5	9211.4	15374.3	21553.7	24686.6	*24079.7*	19562.5	11932.9	3457.9	750.8	456.7
80°	4694.2	4751.8	6699.8	12229.1	15236.5	*15240.6*	11593.5	5241.3	1425.5	384.7	306.5
82.5°	2513.7	2563.1	3540.2	5650.7	7983.4	*7236.7*	4439.1	2884.0	829.0	218.0	294.2
85°	604.8	615.1	2007.7	2581.6	3139.0	*2242.2*	1318.6	2421.1	224.2	127.5	238.6
87.5°	232.4	236.6	744.6	1117.0	800.2	*518.4*	617.1	903.0	28.8	49.4	37.0
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

Scaled Data Report

REPORT NUMBER: P324024
CATALOG NUMBER: GLEON-SA0D-830-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9108.6	9108.6	9108.6	9108.6	9108.6	9108.6	9108.6	9108.6	9108.6	9108.6	9108.6
2.5°	9018.1	8964.6	8832.9	8666.3	8518.2	8411.2	8250.8	8145.9	8076.0	8073.9	8047.2
5°	8789.7	8680.7	8396.9	8059.5	7753.0	7477.4	7152.3	6895.2	6703.9	6673.0	6607.2
7.5°	8545.0	8366.0	7929.9	7403.3	6889.0	6366.5	5759.7	5383.3	5060.3	4906.0	4889.6
10°	8394.8	8143.8	7524.7	6763.6	5957.2	5107.6	4313.6	3764.4	3367.4	3254.2	3169.9
12.5°	8363.9	8032.8	7212.0	6162.9	5011.0	3887.8	3009.5	2425.3	2108.5	2007.7	1980.9
15°	8394.8	7981.3	6948.7	5568.4	4052.4	2758.5	2020.0	1680.6	1561.3	1532.5	1530.4
17.5°	8413.3	7919.6	6650.4	4908.1	3122.6	1970.6	1546.9	1448.2	1429.6	1427.6	1431.7
20°	8411.2	7825.0	6294.6	4171.7	2322.4	1549.0	1398.8	1378.2	1374.1	1376.2	1374.1
22.5°	8396.9	7713.9	5903.7	3412.6	1754.7	1384.4	1335.0	1322.7	1320.6	1320.6	1320.6
25°	8423.6	7625.5	5473.8	2686.5	1446.1	1308.3	1277.4	1267.1	1265.1	1265.1	1261.0
27.5°	8520.3	7576.1	5002.7	2067.3	1306.2	1240.4	1215.7	1213.7	1207.5	1205.4	1209.5
30°	8676.6	7576.1	4486.4	1608.6	1221.9	1170.5	1151.9	1147.8	1145.8	1143.7	1145.8
32.5°	8952.3	7633.7	3922.8	1337.1	1141.7	1092.3	1079.9	1086.1	1079.9	1079.9	1079.9
35°	9450.1	7806.5	3332.4	1166.3	1057.3	1016.2	1003.8	1012.1	1008.0	1008.0	1005.9
37.5°	10176.2	8127.4	2737.9	1063.5	983.3	940.1	923.6	936.0	931.8	931.8	929.8
40°	11060.7	8594.3	2172.2	985.3	911.3	866.0	851.6	857.8	847.5	847.5	851.6
42.5°	12153.0	9186.8	1678.5	909.2	839.3	796.1	787.8	781.7	763.2	752.9	754.9
45°	13366.7	9803.9	1308.3	835.2	771.4	736.4	724.1	707.6	676.8	656.2	658.3
47.5°	14450.7	10279.0	1063.5	763.2	709.7	682.9	664.4	633.6	588.3	563.6	565.7
50°	15020.5	10351.0	905.1	691.2	652.1	625.3	598.6	551.3	497.8	471.1	469.0
52.5°	15166.6	10013.7	787.8	625.3	594.5	563.6	528.7	464.9	405.2	376.4	372.3
55°	15220.1	9499.4	682.9	563.6	532.8	497.8	452.5	380.6	325.0	296.2	294.2
57.5°	15043.2	8732.1	600.7	508.1	471.1	427.9	372.3	304.4	251.0	228.3	228.3
60°	14650.3	7693.3	536.9	448.4	407.3	357.9	300.3	236.6	187.2	168.7	168.7
62.5°	13866.5	6348.0	477.2	386.7	347.6	296.2	242.7	179.0	131.7	121.4	123.4
65°	12387.5	4815.5	417.6	331.2	296.2	244.8	189.2	127.5	88.5	88.5	92.6
67.5°	10102.1	3344.8	355.9	281.8	255.1	199.5	144.0	88.5	61.7	69.9	78.2
70°	6687.4	1876.0	304.4	232.4	218.0	158.4	107.0	59.7	49.4	65.8	80.2
72.5°	*2524.0*	*730.3*	*255.1*	*187.2*	*189.2*	*121.4*	*76.1*	*45.3*	*45.3*	*72.0*	*94.6*
75°	703.5	357.9	183.1	137.8	148.1	88.5	55.5	39.1	43.2	82.3	111.1
77.5°	413.5	263.3	119.3	80.2	100.8	61.7	37.0	30.9	37.0	69.9	107.0
80°	333.2	139.9	69.9	41.1	55.5	35.0	24.7	18.5	10.3	26.7	55.5
82.5°	333.2	84.3	32.9	28.8	28.8	18.5	12.3	8.2	2.1	0.0	14.4
85°	224.2	35.0	20.6	18.5	14.4	6.2	4.1	2.1	0.0	0.0	0.0
87.5°	37.0	14.4	8.2	4.1	2.1	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

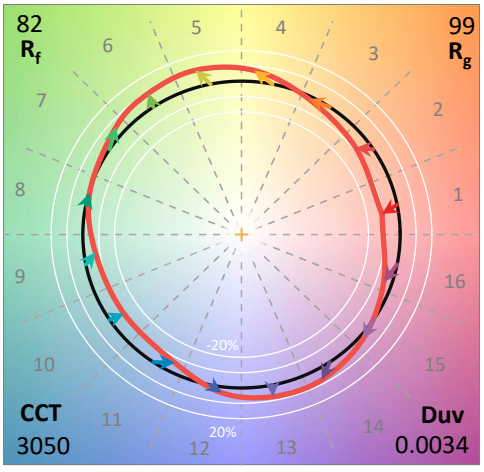
Test Information

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

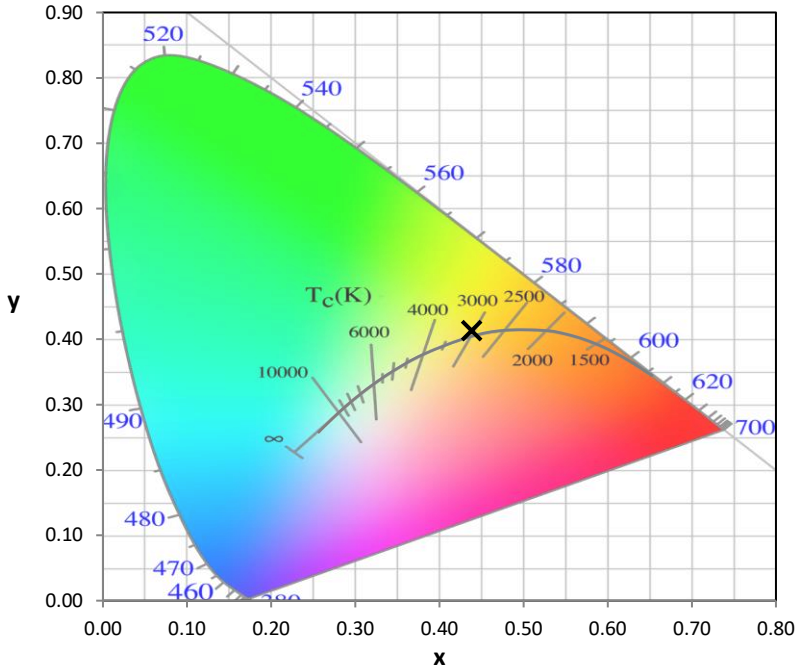
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

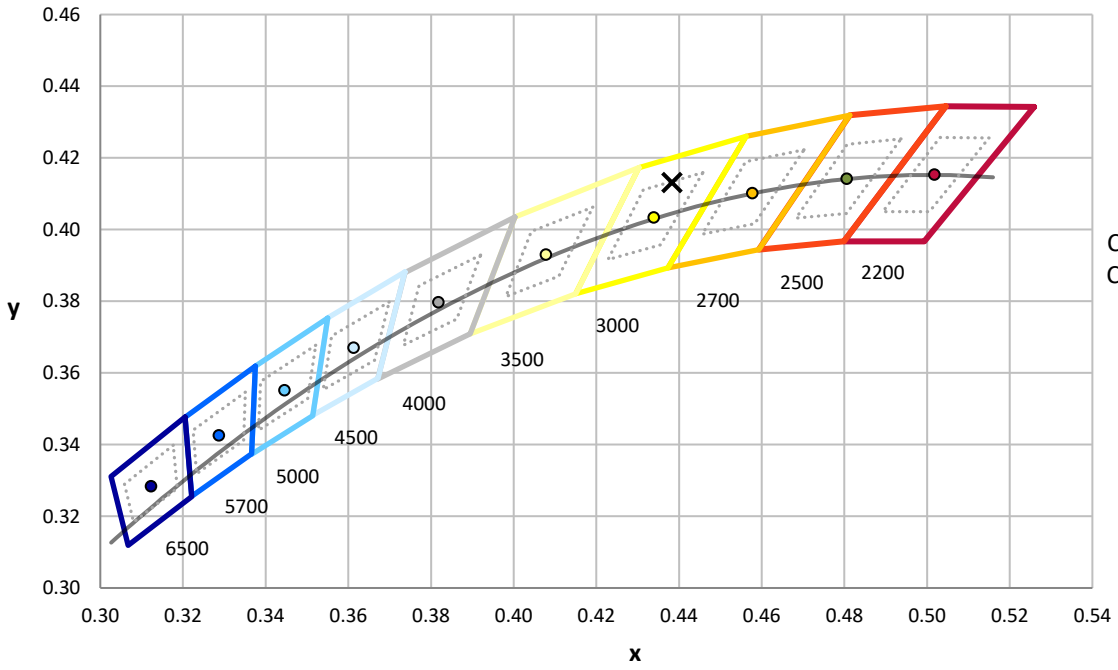
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

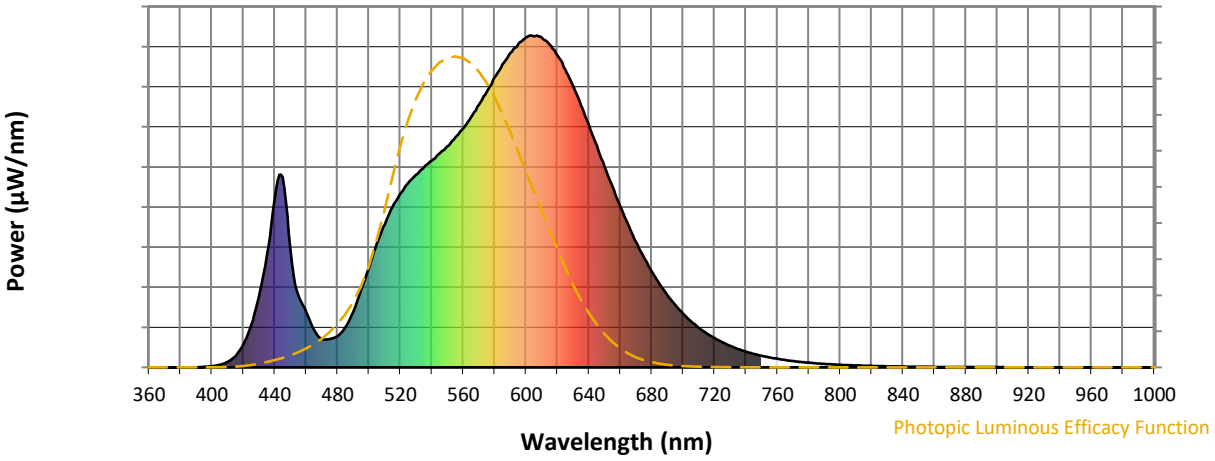


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

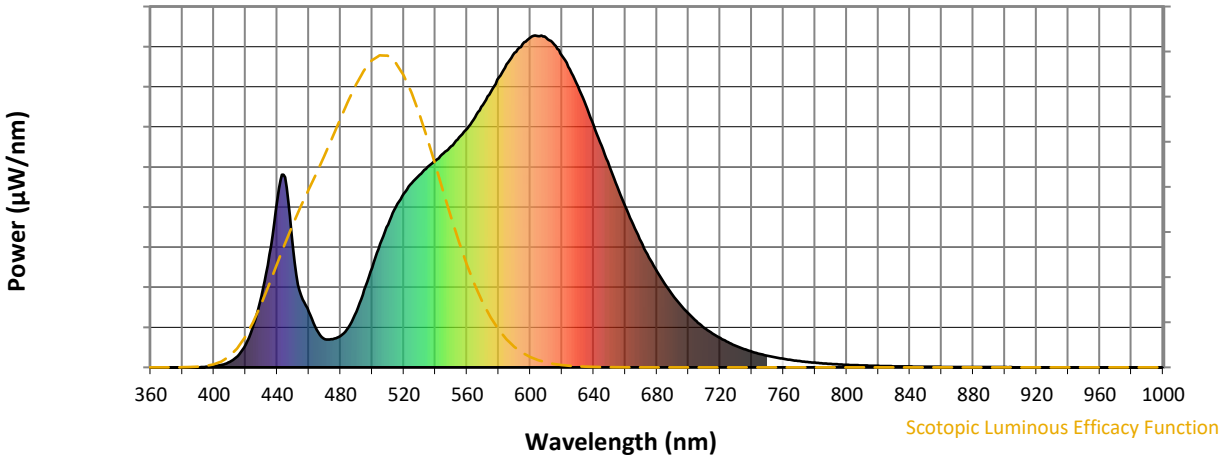


Photopic Lumens: NR

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

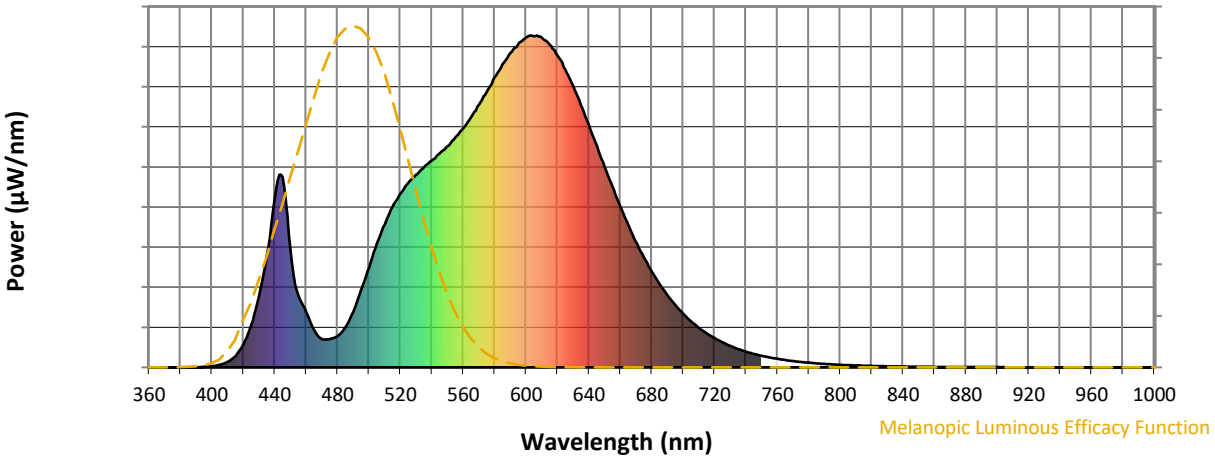


Scotopic Lumens: NR **S/P: 1.27**

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			

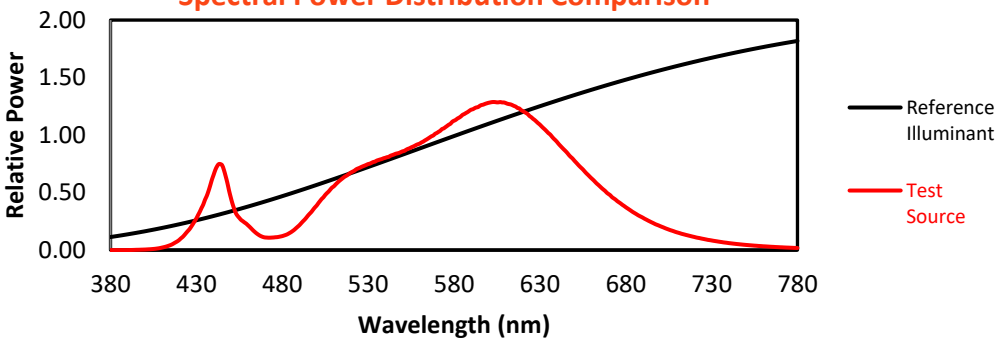
REPORT NUMBER: SP1-2408-195-9

TM-30-18

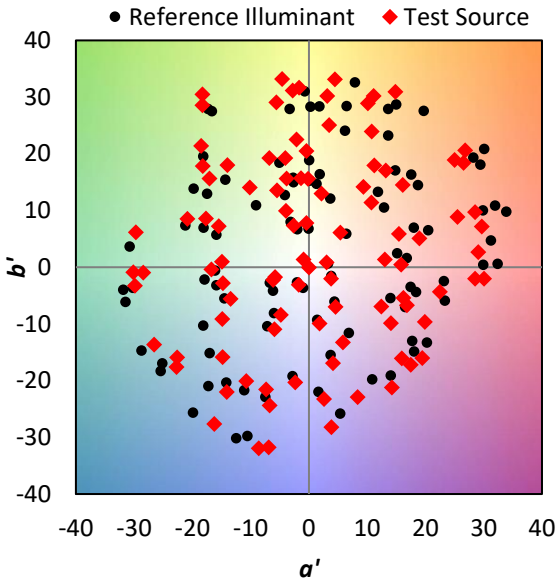
Summary

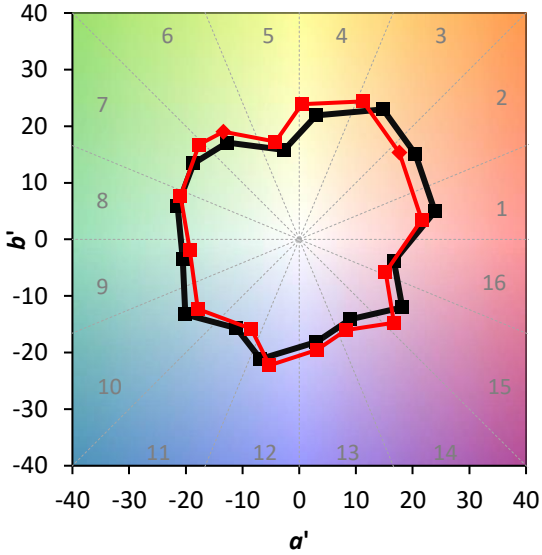
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

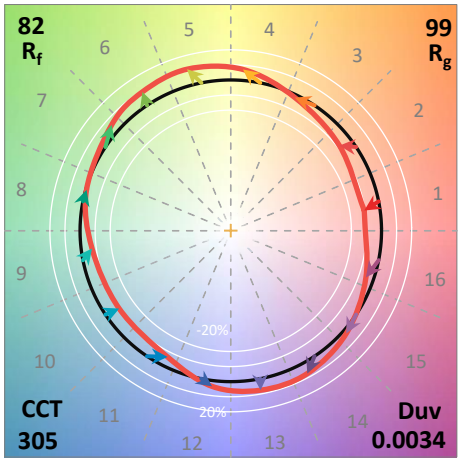
Spectral Power Distribution Comparison

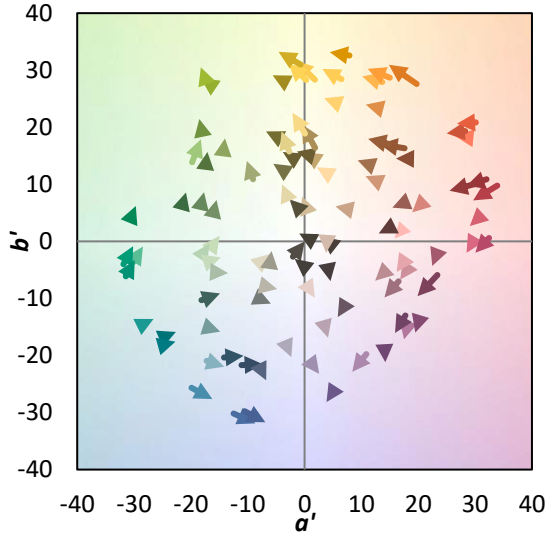


Color Vector Graphics







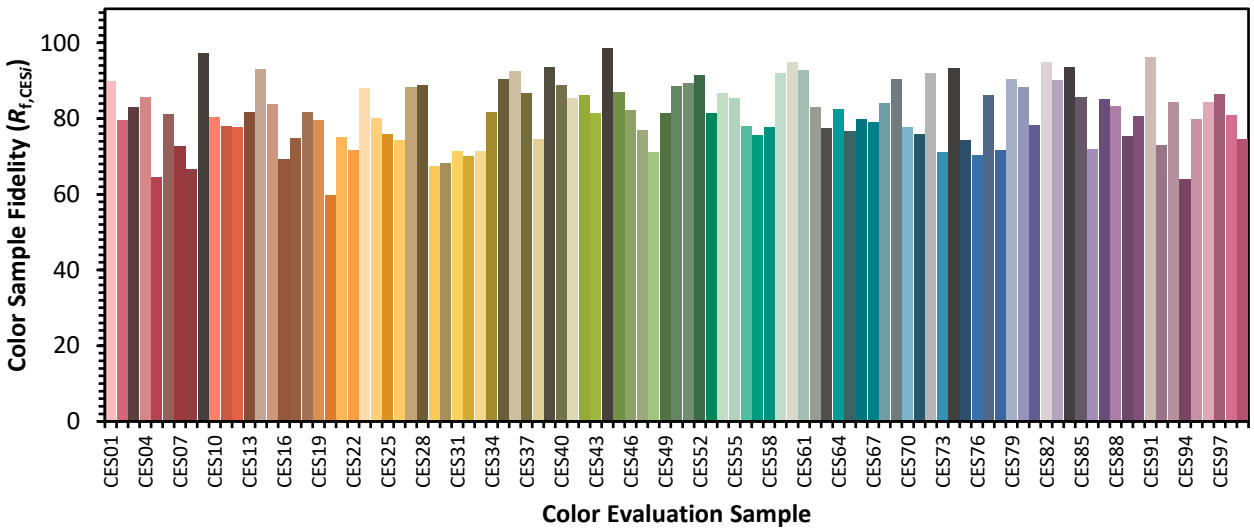


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

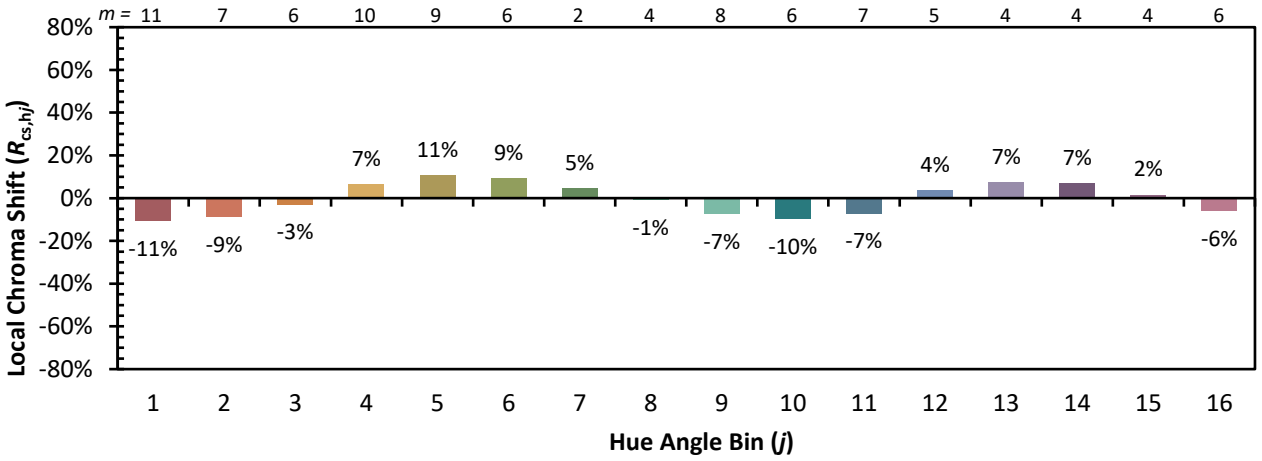
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

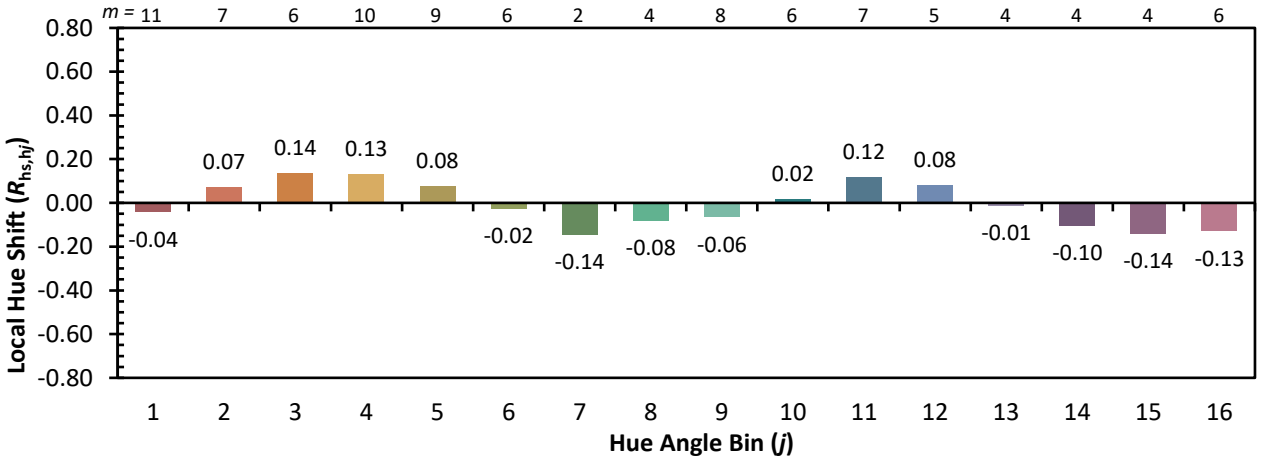


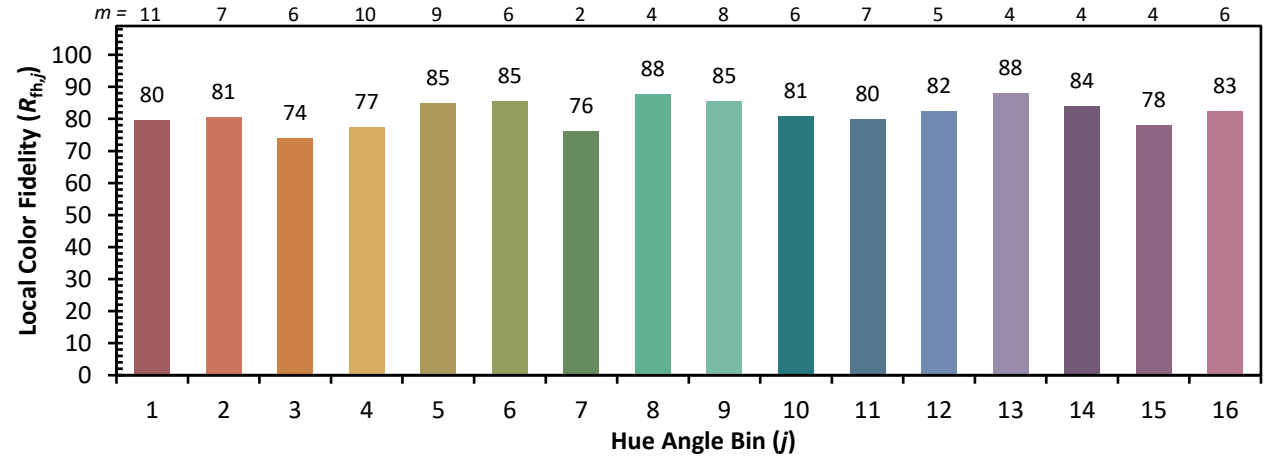
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



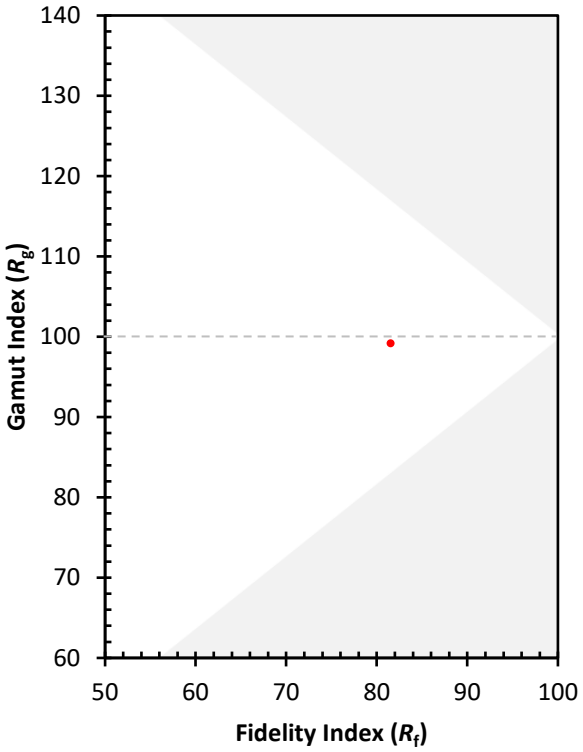


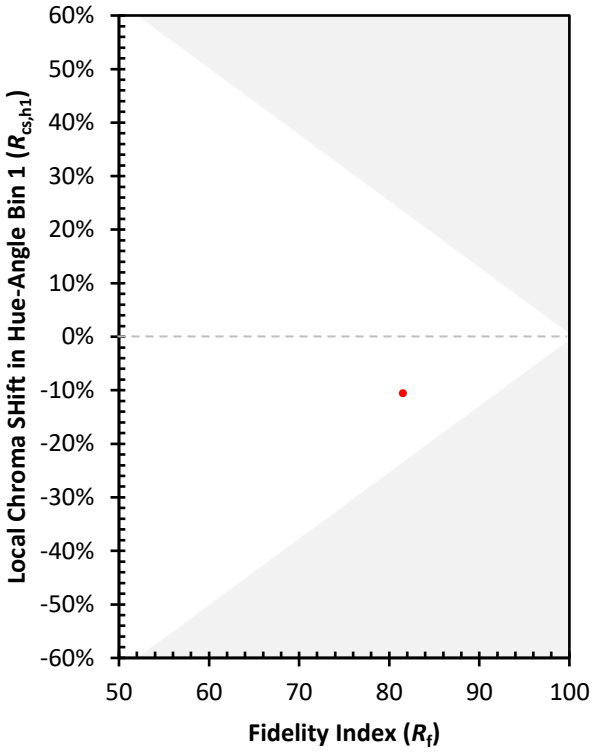


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)