

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: P322407

Luminaire Tested: **GLEON-SA3C-830-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322407
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3C-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12505 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

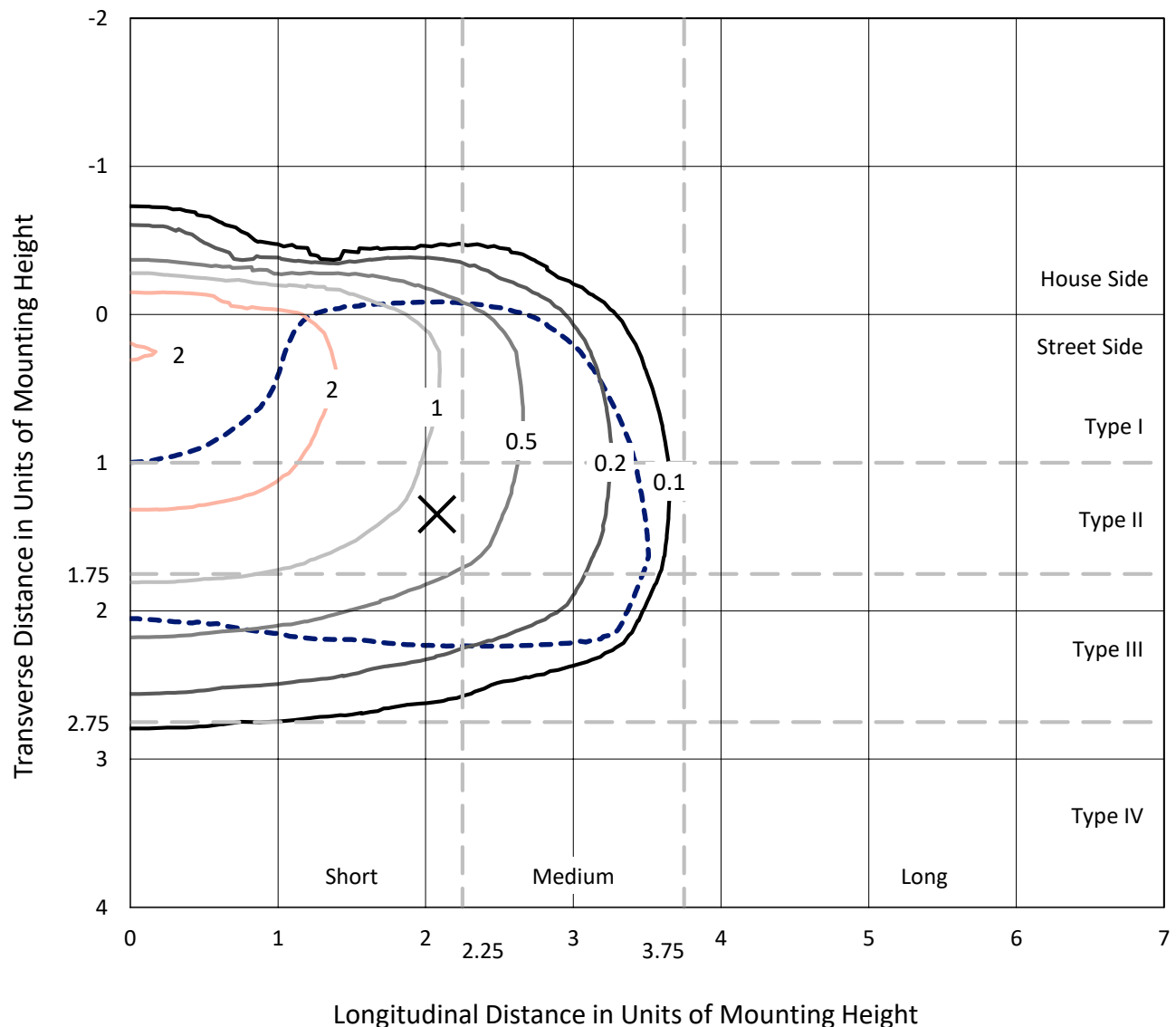
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P322407
 CATALOG NUMBER: GLEON-SA3C-830-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

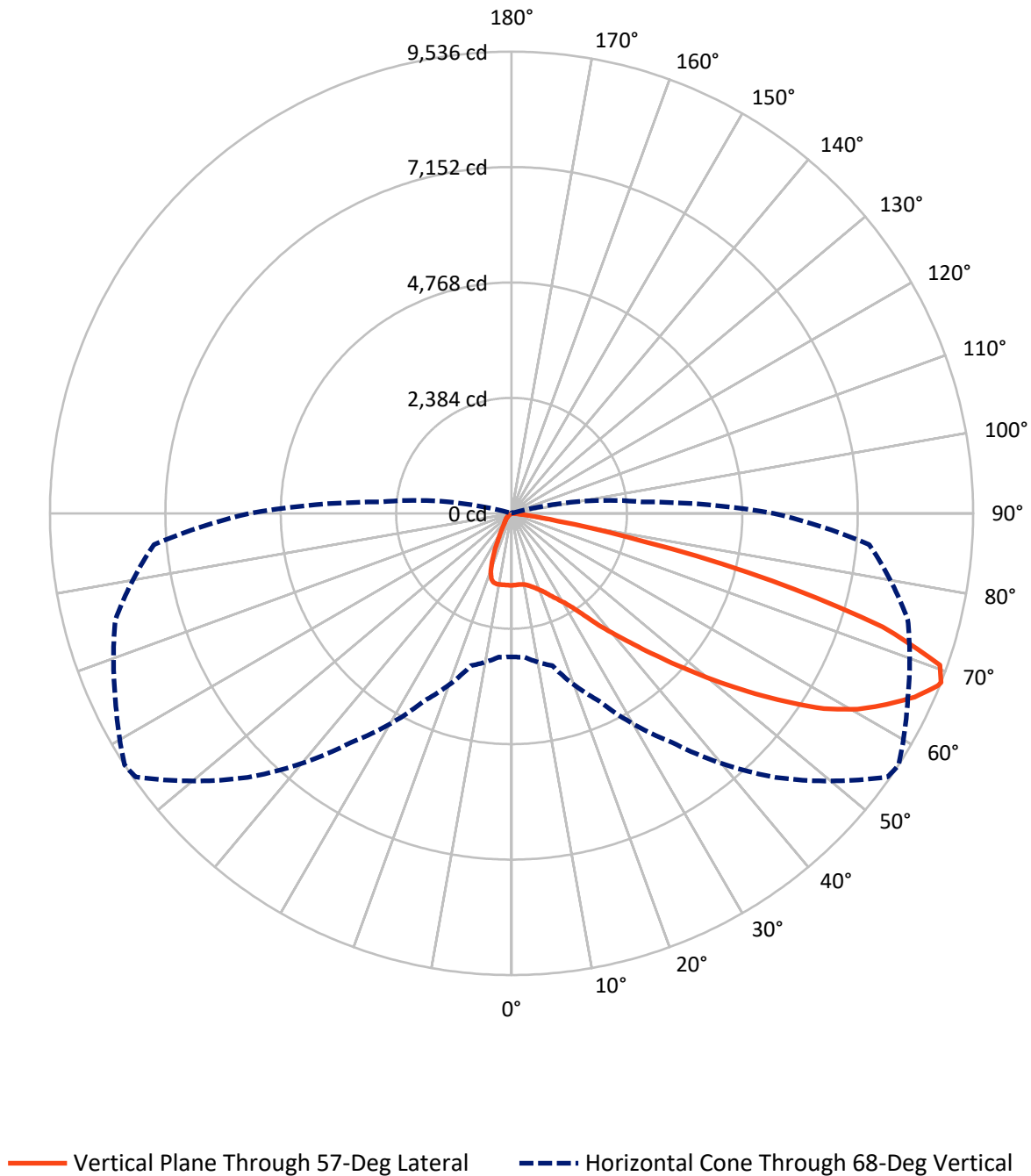
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type III - Short - N/A

REPORT NUMBER: P322407
CATALOG NUMBER: GLEON-SA3C-830-U-T3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P322407

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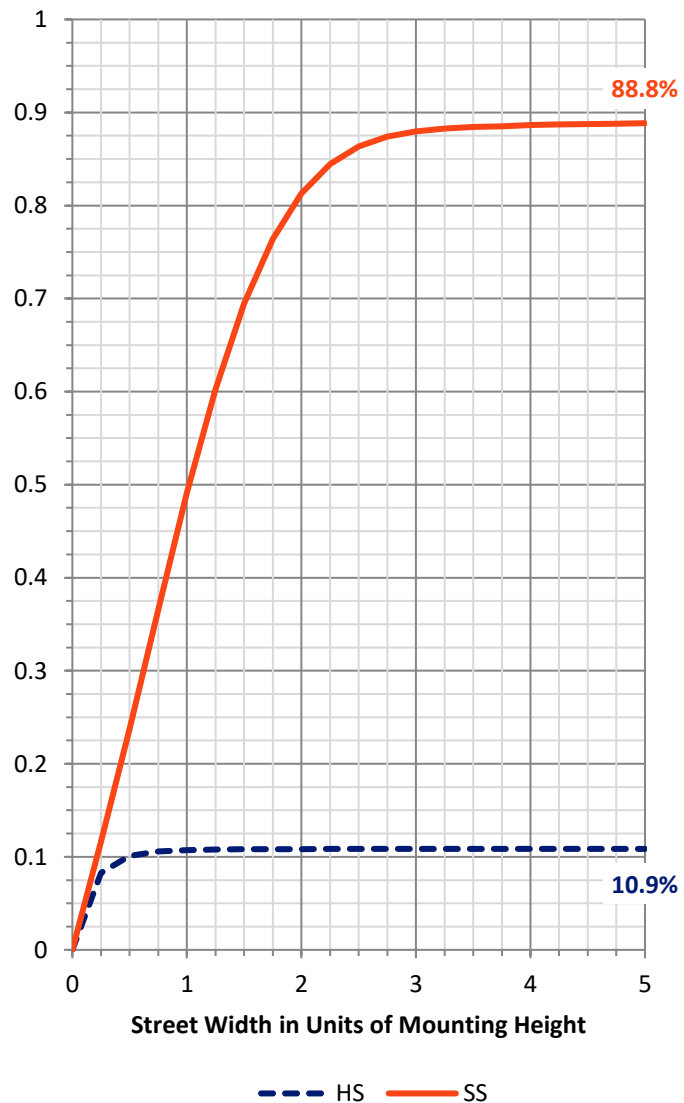
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1371.3	0.0	1371.3
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	11133.8	0.0	11133.8
	% Fixture	89.0	0.0	89.0
Total	Lumens	12505.0	0.0	12505.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.1	1.1
10°-20°	385.3	3.1
20°-30°	664.8	5.3
30°-40°	1147.3	9.2
40°-50°	1962.6	15.7
50°-60°	3139.9	25.1
60°-70°	3627.8	29.0
70°-80°	1386.2	11.1
80°-90°	52.0	0.4
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°	12505.0	100.0
0°-180°	12505.0	100.0

Coefficient of Utilization



REPORT NUMBER: P322407

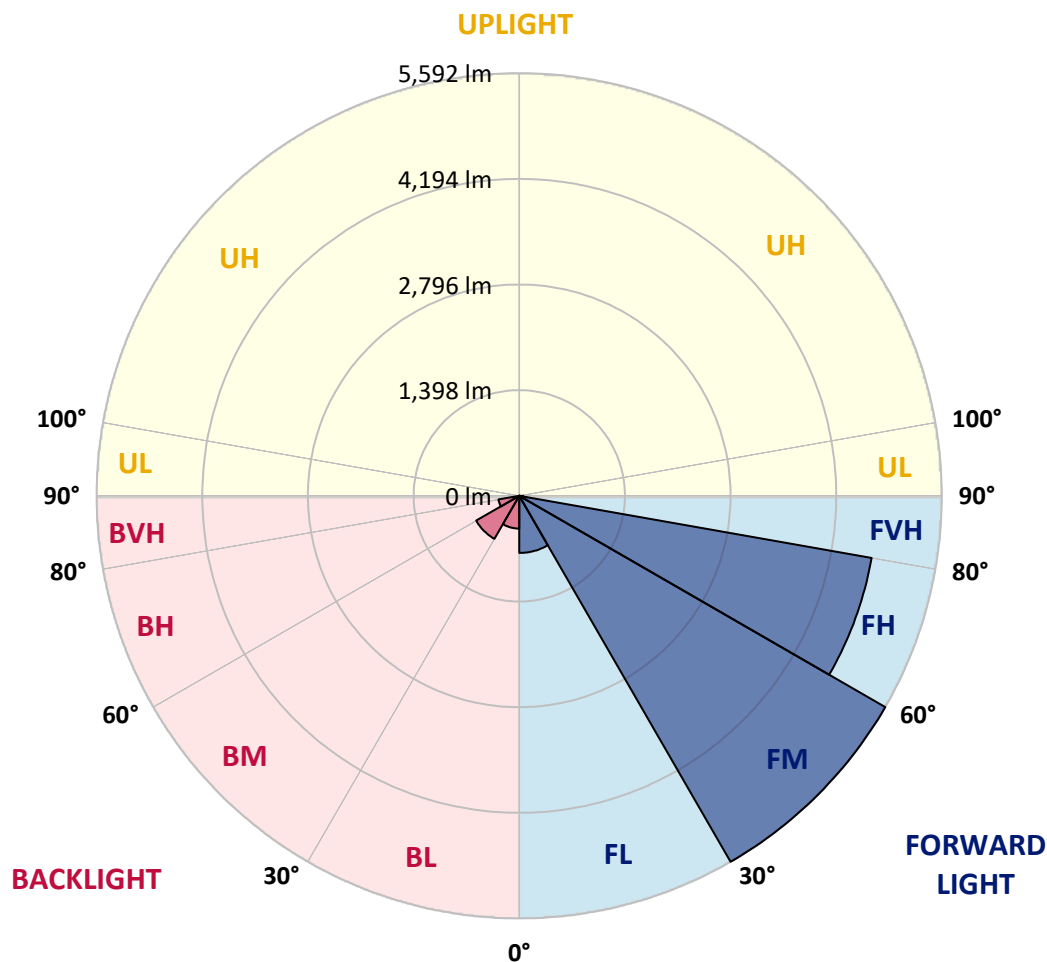
CATALOG NUMBER: GLEON-SA3C-830-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	755.8	6.0			
FM	(30°-60°)	5592.1	44.7			
FH	(60°-80°)	4734.8	37.9			G2/5000
FVH	(80°-90°)	51.0	0.4			G1/100
BL	(0°-30°)	433.4	3.5	B1/500		
BM	(30°-60°)	657.7	5.3	B1/1000		
BH	(60°-80°)	279.3	2.2	B1/500		G1/500
BVH	(80°-90°)	1.0	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-G2

Type III Short





REPORT NUMBER: P322407

CATALOG NUMBER: GLEON-SA3C-830-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1485.9	1485.9	1485.9	1485.9	1485.9	1485.9	1485.9	1485.9	1485.9	1485.9	1485.9
2.5°	1451.0	1457.5	1462.3	1465.2	1468.8	1476.5	1478.8	1482.4	1484.1	1484.1	1488.3
5°	1393.7	1400.8	1410.8	1419.1	1435.7	1457.0	1472.3	1478.2	1488.9	1498.3	1503.7
7.5°	1340.5	1348.7	1360.6	1380.1	1408.5	1442.8	1474.7	1483.0	1503.7	1523.8	1533.8
10°	1306.2	1312.7	1328.0	1355.8	1393.1	1441.0	1485.9	1496.0	1531.5	1565.2	1584.1
12.5°	1294.3	1300.3	1316.2	1347.6	1393.7	1449.9	1511.9	1526.7	1578.8	1627.8	1654.4
15°	1311.5	1312.7	1329.8	1359.4	1404.9	1471.7	1555.1	1572.8	1638.5	1702.3	1735.5
17.5°	1377.7	1372.4	1381.3	1394.3	1430.3	1500.7	1600.6	1627.2	1714.8	1789.8	1821.2
20°	1543.3	1543.3	1523.2	1487.7	1488.3	1545.6	1662.1	1692.3	1799.3	1886.2	1914.6
22.5°	1826.5	1821.2	1781.0	1694.1	1614.2	1623.1	1737.2	1776.2	1901.0	1993.8	2003.3
25°	2167.1	2160.6	2098.5	1976.1	1837.7	1748.5	1838.9	1883.9	2022.2	2104.4	2084.9
27.5°	2527.8	2522.5	2461.0	2309.0	2112.1	1948.3	1960.1	2002.7	2145.8	2226.8	2164.7
30°	2877.2	2879.0	2818.1	2662.0	2439.1	2203.2	2113.9	2138.7	2265.8	2348.0	2259.3
32.5°	3209.5	3211.9	3159.3	2984.9	2776.7	2499.4	2326.7	2320.2	2405.4	2486.4	2384.7
35°	3505.8	3511.7	3475.6	3340.2	3119.7	2829.3	2602.9	2587.5	2603.5	2695.1	2576.9
37.5°	3791.4	3794.9	3767.7	3653.6	3469.1	3191.8	2951.7	2929.9	2895.6	2965.9	2830.5
40°	4104.2	4095.3	4064.0	3960.5	3802.0	3592.1	3326.6	3288.8	3229.1	3291.7	3164.0
42.5°	4395.1	4385.0	4390.4	4273.3	4139.7	4003.7	3763.6	3698.5	3663.7	3735.8	3573.2
45°	4758.7	4753.4	4771.2	4669.5	4561.2	4462.5	4264.4	4193.5	4178.1	4262.6	4068.1
47.5°	5117.7	5130.7	5185.7	5142.5	5098.7	5011.8	4794.8	4762.9	4772.3	4874.6	4590.2
50°	5416.9	5432.2	5583.0	5632.7	5695.9	5645.1	5427.5	5408.0	5445.2	5537.5	5152.0
52.5°	5633.3	5664.6	5852.0	6080.9	6311.5	6345.8	6128.8	6111.0	6161.3	6175.5	5586.0
55°	5783.5	5811.2	6023.5	6442.2	6911.6	7059.5	6924.7	6856.1	6846.6	6706.5	6042.4
57.5°	5810.1	5807.1	6112.2	6675.7	7382.3	7763.7	7678.6	7611.1	7417.2	7197.2	6565.7
60°	5659.9	5677.0	6031.2	6756.7	7678.0	8296.5	8303.0	8215.4	7913.3	7674.4	7073.1
62.5°	5197.5	5267.3	5625.0	6544.5	7674.4	8511.1	8760.6	8693.8	8332.5	8065.3	7587.5
65°	4447.7	4472.6	4813.7	5817.2	7155.8	8421.2	9172.8	9147.9	8710.4	8444.9	7851.8
67.5°	3248.0	3194.2	3552.5	4580.8	6058.4	7897.3	9468.4	9499.7	9001.9	8522.9	7570.3
68°	2964.2	2980.1	3259.2	4275.1	5771.0	7712.3	9487.9	9535.8	9030.8	8472.1	7416.6
70°	1766.8	1797.5	2046.5	2943.5	4390.4	6665.1	9277.4	9386.8	8858.2	7947.6	6415.0
72.5°	451.2	487.8	723.2	1317.4	2507.7	4696.1	7831.7	8016.8	7691.0	6447.5	4330.6
75°	185.7	195.1	258.4	434.0	934.2	2115.7	5162.0	5558.2	5331.7	3860.0	1957.2
77.5°	128.3	134.8	166.2	240.7	404.4	717.2	2530.7	2816.9	2537.8	1317.4	426.9
80°	92.2	97.6	118.9	160.2	232.4	256.0	824.9	953.8	757.4	289.1	105.8
82.5°	55.0	59.1	88.7	114.1	141.3	122.4	205.2	233.0	219.4	143.7	47.3
85°	27.2	31.9	59.7	81.6	76.3	51.4	62.7	69.8	86.3	87.5	25.4
87.5°	1.8	3.5	34.9	49.1	21.3	11.8	18.3	22.5	30.7	43.2	10.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P322407

CATALOG NUMBER: GLEON-SA3C-830-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1485.9	1485.9	1485.9	1485.9	1485.9	1485.9	1485.9	1485.9	1485.9	1485.9	1485.9
2.5°	1490.1	1490.7	1486.5	1484.7	1485.9	1478.8	1475.9	1477.1	1477.1	1478.8	1475.9
5°	1504.8	1504.8	1497.7	1488.3	1483.0	1469.4	1460.5	1458.1	1456.4	1455.2	1452.8
7.5°	1536.8	1533.2	1520.8	1500.1	1482.4	1452.8	1430.3	1418.5	1412.6	1410.2	1408.5
10°	1588.2	1581.7	1561.0	1522.6	1481.8	1429.2	1380.1	1345.2	1316.2	1304.4	1297.3
12.5°	1657.4	1647.9	1613.1	1549.2	1477.6	1380.7	1274.2	1171.9	1076.7	1037.7	1018.2
15°	1737.2	1723.6	1668.6	1571.7	1453.4	1271.3	1040.1	860.9	729.1	679.4	658.1
17.5°	1818.2	1800.5	1717.1	1585.9	1380.7	1044.8	729.7	551.1	463.0	439.3	431.1
20°	1899.8	1873.8	1759.1	1575.2	1216.3	753.3	481.3	402.7	377.2	370.2	367.8
22.5°	1977.3	1937.1	1796.9	1533.8	963.2	505.6	380.8	356.0	347.7	343.5	342.4
25°	2044.7	1988.5	1830.1	1406.1	681.8	382.0	343.0	334.7	324.0	316.3	316.9
27.5°	2108.0	2040.0	1850.2	1195.6	454.7	326.4	317.5	306.3	286.8	275.5	275.5
30°	2184.2	2108.6	1864.9	920.1	334.7	288.6	281.5	264.3	237.7	222.9	222.9
32.5°	2299.0	2212.6	1855.5	645.7	277.3	253.7	237.1	213.5	184.5	170.3	169.7
35°	2474.6	2373.5	1788.1	423.4	244.8	220.6	193.9	165.0	139.5	127.7	127.1
37.5°	2711.1	2588.7	1636.7	302.7	219.4	189.8	157.9	125.9	107.0	99.3	98.7
40°	3018.0	2838.8	1420.3	245.4	195.7	160.2	121.8	97.6	84.6	78.6	79.2
42.5°	3386.3	3106.7	1160.7	211.7	172.7	131.9	95.2	76.9	68.6	64.5	63.3
45°	3795.5	3371.0	888.7	188.6	149.6	106.4	74.5	60.9	54.4	52.0	52.0
47.5°	4245.5	3628.2	650.4	168.5	124.8	82.2	59.7	49.7	44.3	42.6	42.0
50°	4654.1	3806.8	468.9	147.2	102.3	65.0	48.5	41.4	37.8	35.5	35.5
52.5°	4994.7	3862.9	345.3	124.2	82.8	52.0	40.2	35.5	31.9	30.2	30.2
55°	5294.5	3839.9	256.6	102.3	66.8	42.6	34.3	30.2	27.2	25.4	25.4
57.5°	5581.8	3765.4	191.6	83.4	53.8	34.3	29.0	25.4	22.5	21.3	21.3
60°	5816.6	3641.2	142.5	67.4	43.2	27.8	24.2	20.7	18.3	16.6	16.6
62.5°	6007.0	3504.0	104.7	55.6	34.3	21.9	18.9	17.1	13.6	11.8	11.8
65°	6008.1	3276.4	78.6	46.1	26.6	17.1	14.2	13.6	8.9	7.1	6.5
67.5°	5573.5	2824.6	60.3	39.6	20.7	13.0	10.6	11.2	4.7	3.0	2.4
68°	5415.7	2709.9	56.8	39.0	19.5	12.4	10.1	11.2	4.1	2.4	1.8
70°	4566.0	2155.9	45.5	37.8	17.1	9.5	8.3	11.2	3.5	1.8	1.2
72.5°	2920.4	1251.2	33.7	30.2	13.0	7.1	5.3	10.1	3.5	1.2	0.6
75°	1242.9	387.9	23.1	21.3	7.7	5.3	3.5	6.5	2.4	0.6	0.0
77.5°	261.9	87.5	13.6	13.0	5.3	3.5	2.4	1.8	0.6	0.0	0.0
80°	67.4	25.4	7.1	6.5	3.0	1.8	1.2	0.0	0.0	0.0	0.0
82.5°	21.3	10.1	4.1	3.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.6	5.9	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.9	1.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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.

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
 CIE u' : 0.2476
 CIE v' : 0.5251
 Duv: 0.0034
 CIE x: 0.4383
 CIE y: 0.4131
 CIE z: 0.1487
 Peak Wavelength (nm): 603
 Dominant Wavelength (nm): 581
 Purity: 55.55201
 Rf: 81.5
 Rg: 99.2

CRI (Ra): 81.0
 R1: 79.6
 R2: 85.6
 R3: 92.0
 R4: 82.6
 R5: 78.9
 R6: 81.7
 R7: 85.2
 R8: 62.0
 R9: 7.1
 R10: 67.0
 R11: 82.7
 R12: 63.2
 R13: 80.3
 R14: 95.0
 R15: 71.7



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



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 ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /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



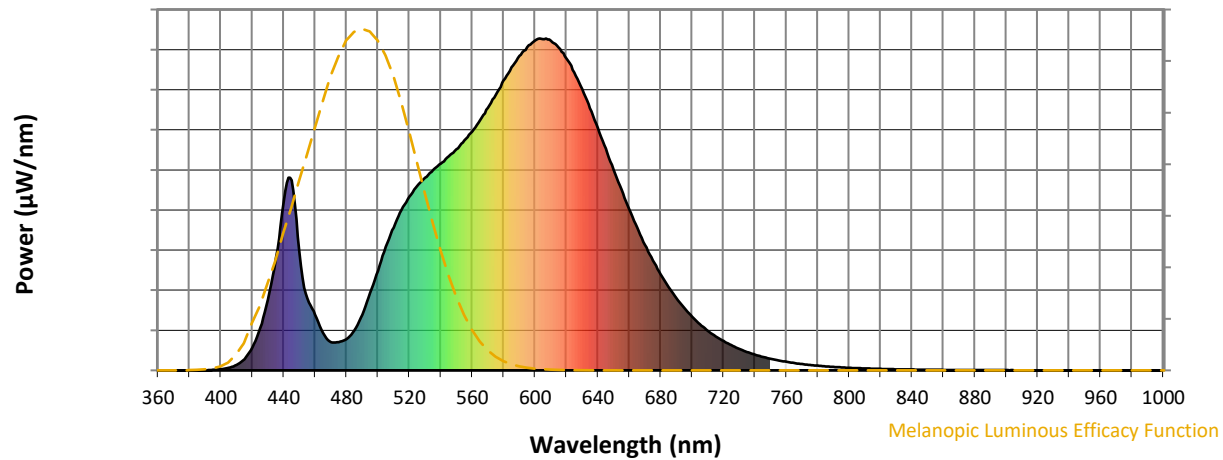
Scotopic Lumens: NR

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 $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	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

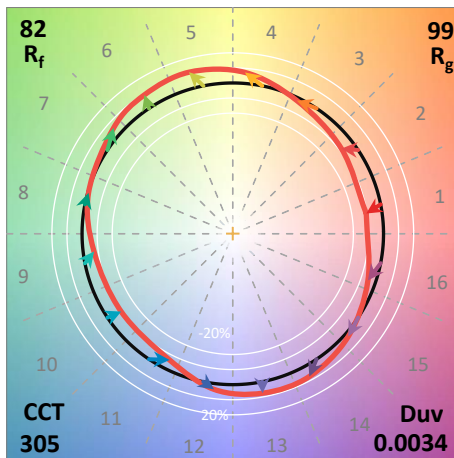
TM-30-18

Summary

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



Color Vector Graphics

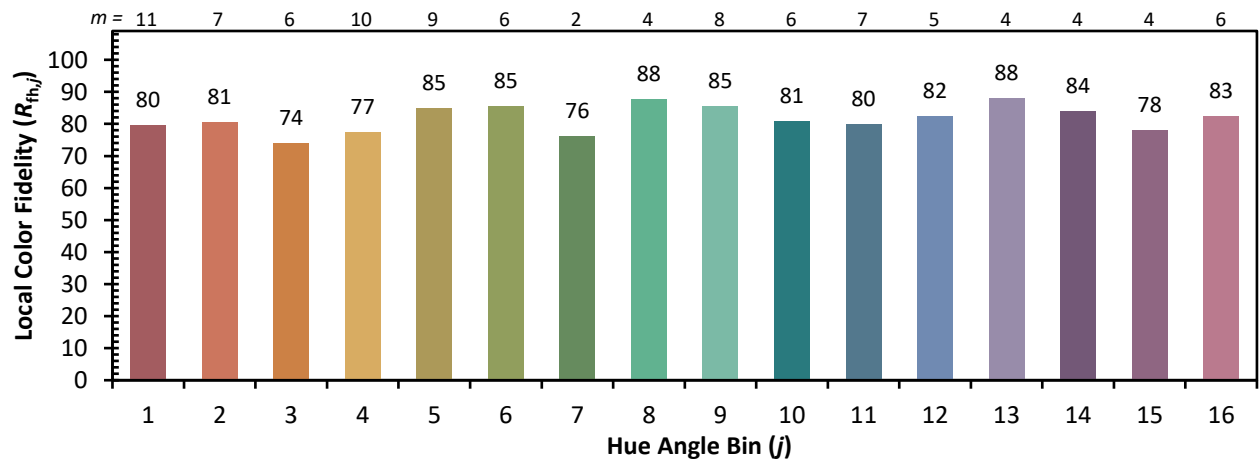
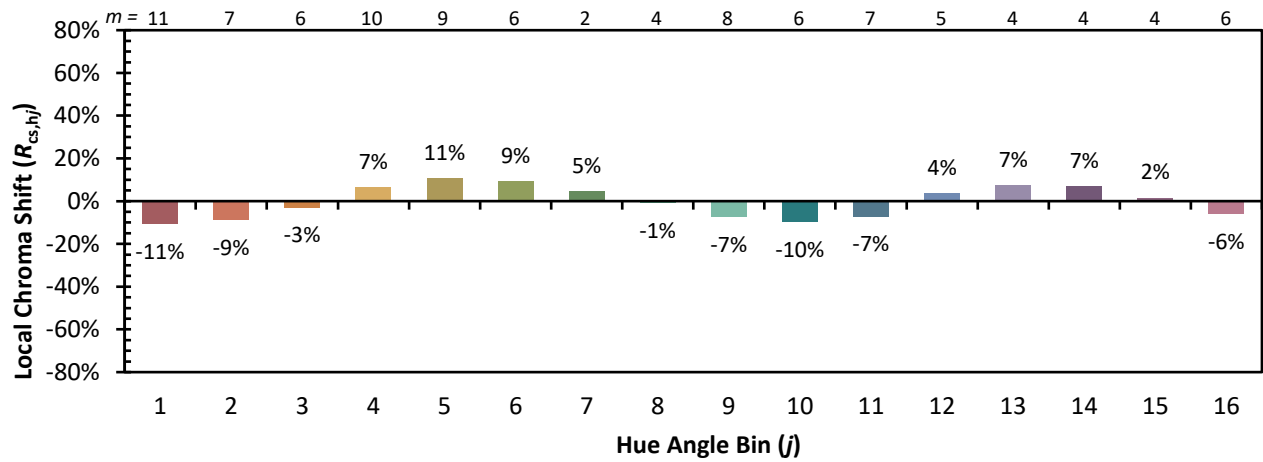


Individual Sample Fidelity Index ($R_{f,i}$)

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	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)