

Signify Classified - Internal
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: P319847

Luminaire Tested: **GLEON-SA3C-830-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319847
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
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-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17161 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

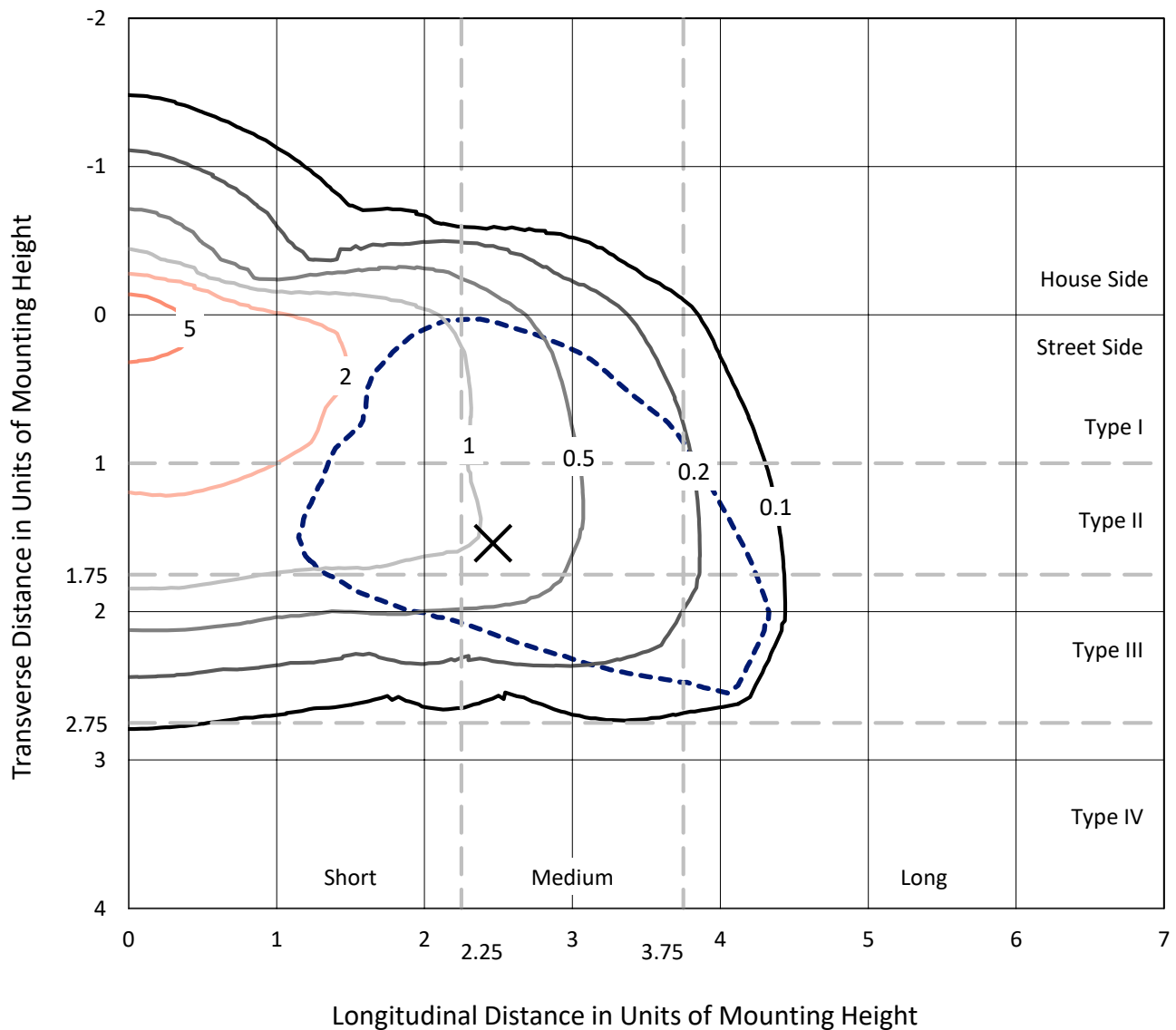
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

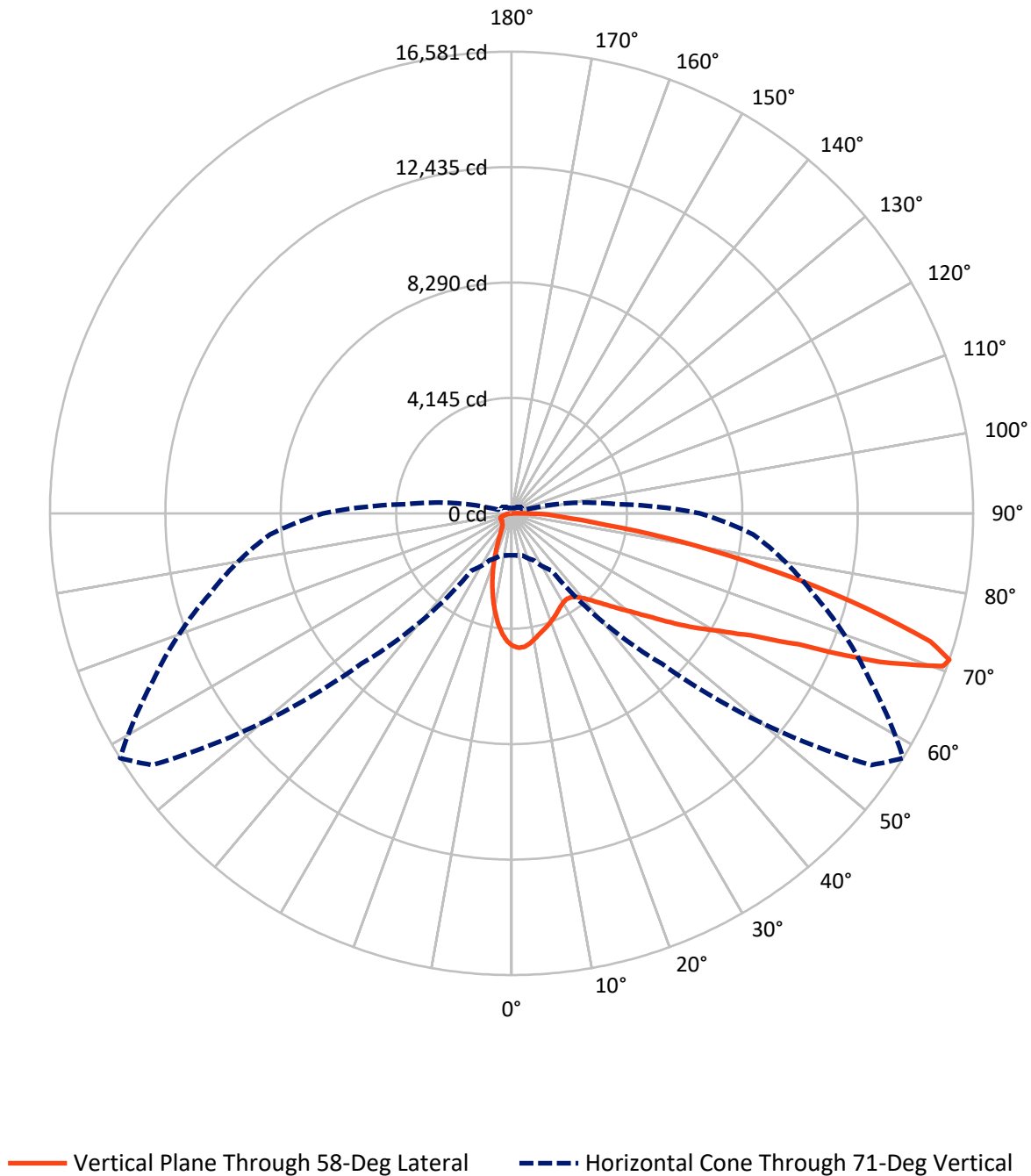
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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CATALOG NUMBER: GLEON-SA3C-830-U-SL3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2565.7	0.0	2565.7
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	14595.3	0.0	14595.3
	% Fixture	85.0	0.0	85.0
Total	Lumens	17161.0	0.0	17161.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.2	2.4
10°-20°	912.1	5.3
20°-30°	1159.2	6.8
30°-40°	1476.6	8.6
40°-50°	2093.9	12.2
50°-60°	3240.3	18.9
60°-70°	4411.3	25.7
70°-80°	2942.9	17.1
80°-90°	514.5	3.0
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°	17161.0	100.0
0°-180°	17161.0	100.0

Coefficient of Utilization



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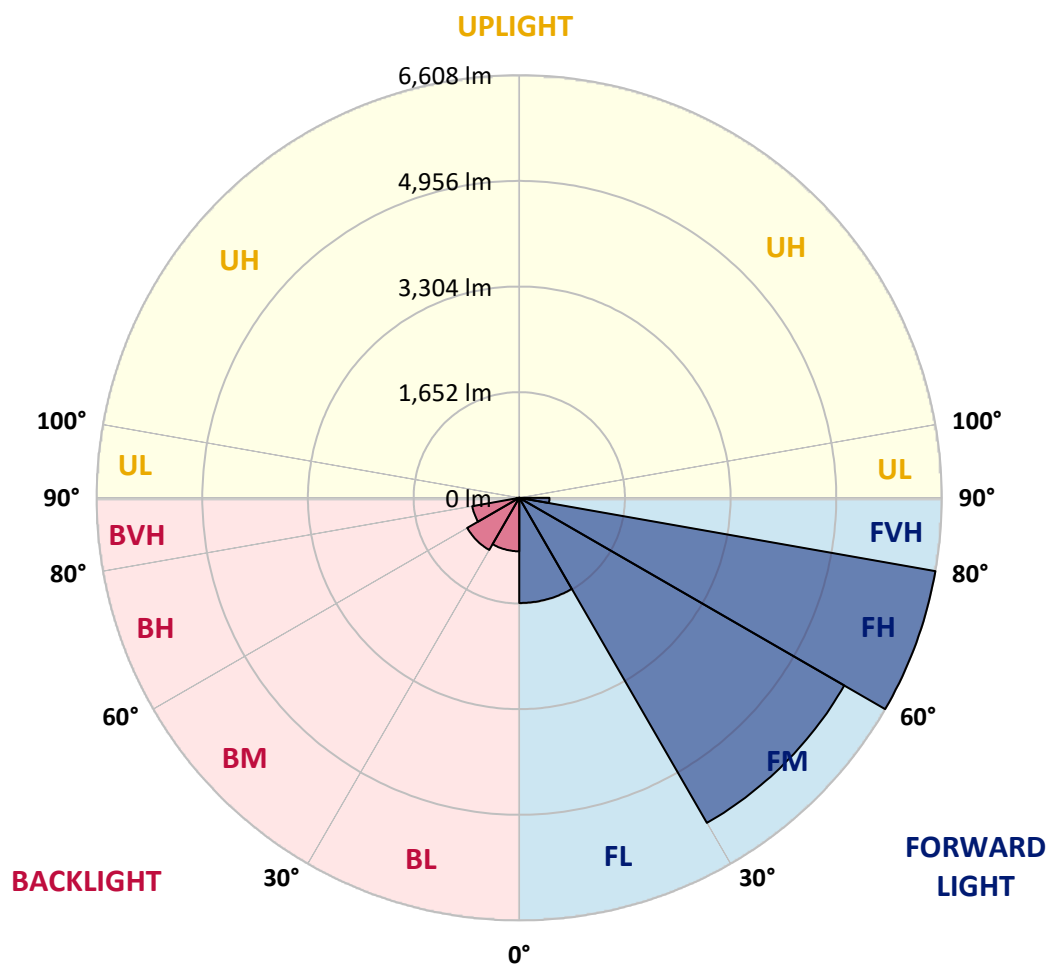
CATALOG NUMBER: GLEON-SA3C-830-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1645.2	9.6			
FM	(30°-60°)	5869.9	34.2			
FH	(60°-80°)	6608.5	38.5			G3/7500
FVH	(80°-90°)	471.8	2.7			G3/500
BL	(0°-30°)	836.3	4.9	B2/1000		
BM	(30°-60°)	940.9	5.5	B1/1000		
BH	(60°-80°)	745.7	4.3	B2/1000		G2/1000
BVH	(80°-90°)	42.7	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4754.7	4754.7	4754.7	4754.7	4754.7	4754.7	4754.7	4754.7	4754.7	4754.7	4754.7
2.5°	4880.9	4874.3	4876.7	4871.9	4860.6	4849.2	4832.5	4835.4	4812.1	4777.5	4734.4
5°	4788.8	4786.4	4804.4	4814.5	4822.9	4816.3	4811.5	4817.5	4783.4	4735.6	4660.9
7.5°	4595.7	4569.4	4592.1	4626.2	4658.5	4683.0	4715.3	4719.5	4698.0	4647.7	4549.7
10°	4321.4	4296.2	4329.7	4382.9	4447.5	4506.1	4571.2	4583.2	4587.4	4541.9	4423.0
12.5°	4036.8	4017.7	4051.2	4125.9	4232.9	4323.1	4427.2	4445.1	4482.2	4451.7	4305.8
15°	3782.2	3775.0	3815.6	3889.2	4012.3	4150.4	4300.4	4333.3	4396.1	4385.9	4214.4
17.5°	3562.2	3560.4	3591.5	3668.6	3804.9	3979.4	4174.3	4229.9	4323.1	4335.1	4139.0
20°	3398.4	3394.8	3416.3	3473.1	3613.6	3811.4	4038.0	4114.5	4249.0	4290.9	4061.3
22.5°	3310.5	3309.9	3310.5	3337.4	3452.2	3636.3	3905.3	3998.6	4176.7	4255.6	3975.2
25°	3295.6	3293.8	3280.6	3277.6	3342.8	3489.8	3773.8	3876.6	4107.9	4231.1	3893.3
27.5°	3334.4	3336.8	3319.5	3291.4	3304.5	3393.6	3659.6	3769.6	4053.0	4226.3	3836.6
30°	3415.1	3413.9	3399.0	3369.7	3344.0	3357.7	3578.3	3688.3	4015.9	4247.2	3797.7
32.5°	3504.2	3510.8	3507.8	3491.6	3453.4	3398.4	3553.8	3661.4	4005.1	4297.4	3781.0
35°	3611.2	3618.4	3639.9	3652.4	3607.6	3519.1	3606.4	3699.7	4036.2	4391.9	3807.9
37.5°	3712.8	3731.3	3791.7	3844.9	3806.7	3708.0	3746.3	3812.6	4132.5	4540.7	3880.2
40°	3830.0	3846.1	3944.8	4057.7	4051.8	3949.5	3971.7	4015.9	4302.2	4754.1	4011.1
42.5°	3945.3	3977.6	4120.5	4280.7	4326.7	4236.5	4271.7	4295.1	4541.3	5036.9	4239.5
45°	4099.0	4133.7	4332.1	4525.2	4632.8	4582.0	4638.2	4647.1	4842.0	5421.9	4571.2
47.5°	4331.5	4371.0	4602.3	4805.0	4969.3	4974.7	5067.4	5063.8	5217.4	5862.4	4989.1
50°	4693.8	4750.6	4940.1	5129.6	5329.2	5440.4	5564.1	5546.8	5667.6	6331.7	5470.3
52.5°	5168.4	5194.7	5335.2	5475.1	5723.1	5972.4	6150.0	6134.4	6178.1	6814.1	6016.7
55°	5660.4	5680.1	5738.1	5814.6	6148.2	6554.7	6930.1	6905.6	6795.0	7315.0	6556.5
57.5°	6102.7	6142.8	6182.8	6214.5	6576.2	7163.2	7728.1	7729.9	7464.5	7855.4	7114.2
60°	6171.5	6206.8	6471.6	6721.4	7308.5	7975.0	8582.3	8564.4	8157.3	8441.9	7735.9
62.5°	5455.3	5534.8	5977.2	6641.9	8013.8	9459.9	9672.1	9650.0	8985.8	9164.6	8459.8
65°	3909.5	3999.7	4533.6	5532.5	7671.9	11096.0	11638.8	11341.1	10115.6	10053.5	9307.4
67.5°	2255.4	2276.9	2508.3	3310.5	5841.5	11181.5	14639.0	14222.4	11870.1	11061.9	9722.3
70°	1667.8	1667.2	1722.2	2037.2	3161.1	9125.7	16065.9	16439.6	13717.3	11393.7	9135.9
71°	1508.2	1510.0	1571.6	1854.3	2503.5	7638.4	15762.9	16580.6	14203.9	11229.9	8711.5
72.5°	1290.0	1296.0	1381.5	1663.0	2106.0	5267.6	14457.3	15734.2	14434.6	10825.8	8047.3
75°	978.6	992.3	1110.7	1401.8	1924.9	2671.5	10610.6	12564.1	12823.0	9552.5	5979.6
77.5°	698.2	713.7	847.7	1178.8	1829.8	2013.3	7105.8	9164.6	9436.6	6121.9	2697.2
80°	441.2	459.7	560.7	937.9	1719.2	1911.7	4465.4	6160.1	5145.7	1958.9	686.3
82.5°	258.8	273.2	347.9	612.7	1404.2	1841.2	2627.2	3414.5	2002.6	591.8	312.0
85°	150.0	156.6	217.0	390.4	1019.8	1737.7	1930.2	1908.7	869.2	289.3	147.7
87.5°	69.9	77.7	128.5	203.8	566.1	1259.5	1525.5	1318.1	540.4	135.7	69.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CATALOG NUMBER: GLEON-SA3C-830-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4754.7	4754.7	4754.7	4754.7	4754.7	4754.7	4754.7	4754.7	4754.7	4754.7	4754.7
2.5°	4713.5	4703.3	4660.9	4623.2	4583.8	4532.4	4475.6	4468.4	4433.7	4440.3	4428.4
5°	4620.2	4594.5	4492.3	4399.7	4290.3	4192.2	4085.8	4036.8	3966.3	3961.5	3943.6
7.5°	4486.9	4439.1	4280.7	4105.0	3929.2	3761.8	3596.2	3487.5	3376.3	3329.0	3324.9
10°	4336.9	4255.6	4022.5	3762.4	3509.0	3264.5	3027.8	2852.6	2694.8	2620.1	2617.1
12.5°	4194.6	4074.5	3754.7	3400.8	3054.1	2737.2	2412.6	2182.5	1984.6	1918.3	1890.2
15°	4073.9	3904.7	3494.0	3041.5	2620.7	2180.7	1811.3	1569.2	1386.3	1322.9	1310.9
17.5°	3956.7	3739.1	3226.8	2678.7	2169.9	1686.3	1316.3	1136.4	1038.9	1013.2	1012.6
20°	3840.1	3568.7	2947.7	2307.4	1734.2	1261.3	1012.0	931.3	898.5	895.5	890.7
22.5°	3708.0	3388.2	2654.1	1935.0	1353.4	991.7	860.2	827.9	823.7	834.5	834.5
25°	3584.3	3208.9	2356.4	1570.4	1052.7	827.3	768.1	761.6	772.9	792.1	793.9
27.5°	3468.9	3036.1	2065.9	1246.4	843.5	728.7	704.2	712.0	732.3	754.4	755.0
30°	3373.9	2872.9	1783.8	982.2	712.6	655.2	651.0	666.5	688.6	706.0	710.2
32.5°	3300.3	2733.6	1511.2	789.7	627.1	600.2	603.8	616.9	630.7	640.2	646.8
35°	3266.3	2614.1	1259.5	665.9	572.7	557.7	562.5	569.7	575.7	582.8	588.2
37.5°	3272.2	2521.4	1034.8	588.8	536.2	528.4	528.4	528.4	528.4	532.0	532.6
40°	3327.8	2468.2	851.8	539.8	511.7	503.3	496.8	490.8	486.0	488.4	487.2
42.5°	3470.1	2463.5	717.9	508.7	492.0	478.2	465.1	456.7	450.7	453.1	454.3
45°	3711.6	2523.2	627.7	486.6	473.4	452.5	435.8	426.8	422.6	430.4	431.6
47.5°	4024.3	2653.5	572.7	470.5	456.1	428.6	410.7	402.3	403.5	414.9	417.8
50°	4427.2	2865.2	546.4	460.3	444.2	408.3	389.8	382.6	386.2	402.3	405.9
52.5°	4869.5	3170.0	549.4	457.3	436.4	393.3	373.6	365.2	371.2	386.2	389.2
55°	5380.0	3536.5	599.0	461.5	425.0	383.8	360.5	346.1	350.9	364.6	367.0
57.5°	5947.3	3956.1	698.8	460.3	410.7	374.8	346.7	325.2	328.8	337.1	339.5
60°	6537.9	4463.0	853.6	463.9	404.1	364.0	328.2	301.3	300.1	307.3	308.5
62.5°	7246.9	5049.4	1030.6	466.3	408.3	350.3	303.7	277.4	273.8	275.6	276.8
65°	7977.4	5473.9	964.2	456.7	421.4	338.9	282.2	254.1	247.5	246.3	246.9
67.5°	8000.1	5019.0	676.1	437.6	426.8	333.0	266.0	234.3	223.6	219.4	218.8
70°	7174.6	4077.5	526.6	417.3	405.3	323.4	251.1	218.2	202.0	195.5	194.9
71°	6771.7	3753.5	499.1	407.1	389.2	313.8	244.5	211.0	194.3	187.1	185.9
72.5°	6139.8	3364.9	465.7	390.9	358.1	289.3	231.9	200.9	183.5	175.1	173.4
75°	4406.2	2200.4	399.9	348.5	296.5	230.7	203.2	180.5	165.6	155.4	154.2
77.5°	1697.7	875.7	302.5	289.9	227.2	180.5	167.4	156.0	145.3	135.1	134.5
80°	524.9	391.5	220.6	218.2	164.4	134.5	130.3	127.3	123.1	112.4	110.0
82.5°	280.4	224.8	151.8	141.1	107.6	89.7	94.4	95.6	96.2	84.9	83.7
85°	133.9	119.0	85.5	80.1	62.8	50.2	58.0	62.8	63.4	52.0	48.4
87.5°	64.0	62.2	40.1	30.5	23.3	16.7	20.3	25.1	27.5	19.7	17.3
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
 R_f: 81.5
 R_g: 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

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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

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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

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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			

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Scotopic Flux vs. Wavelength



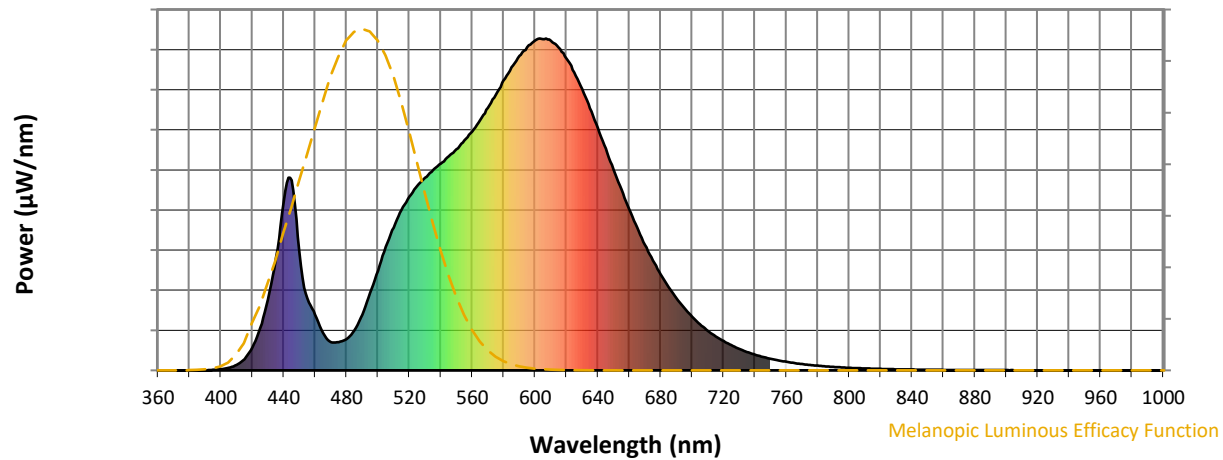
Scotopic Lumens: NR

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			

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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			

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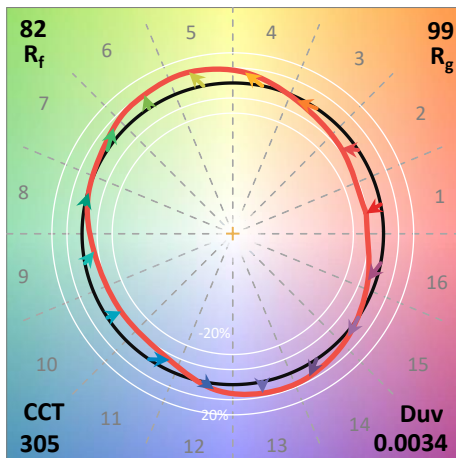
TM-30-18

Summary

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



Color Vector Graphics

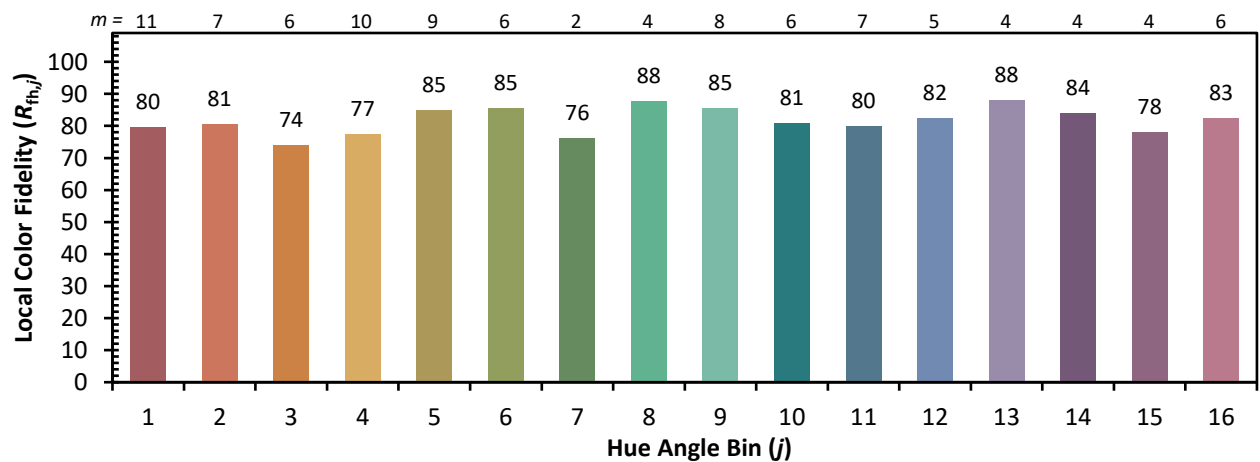
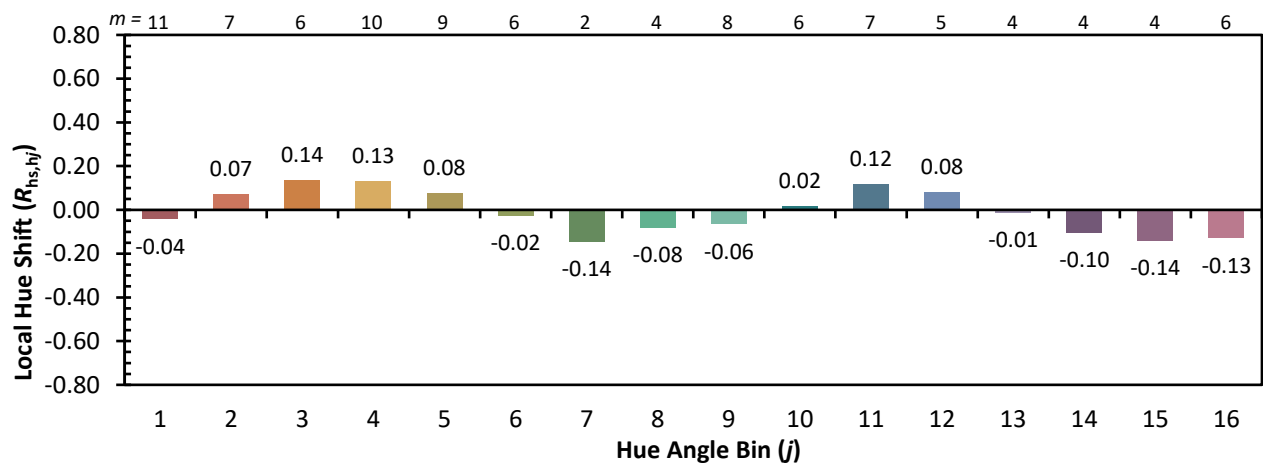
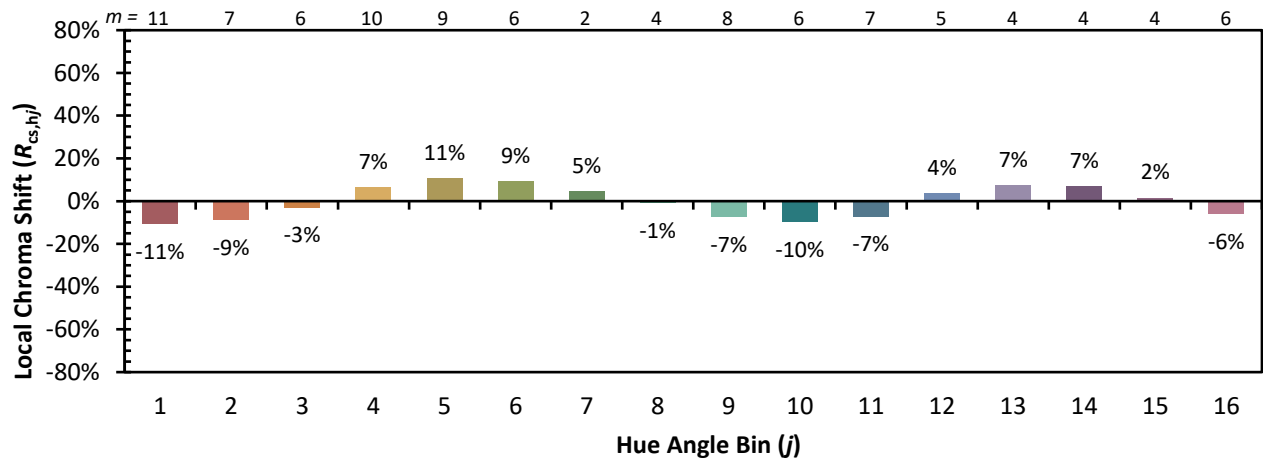


Individual Sample Fidelity Index ($R_{f,i}$)

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)