

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P639956

Luminaire Tested: GWS-SA5C-830-U-SL2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639956
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-30)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5C-830-U-SL2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14995.3 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

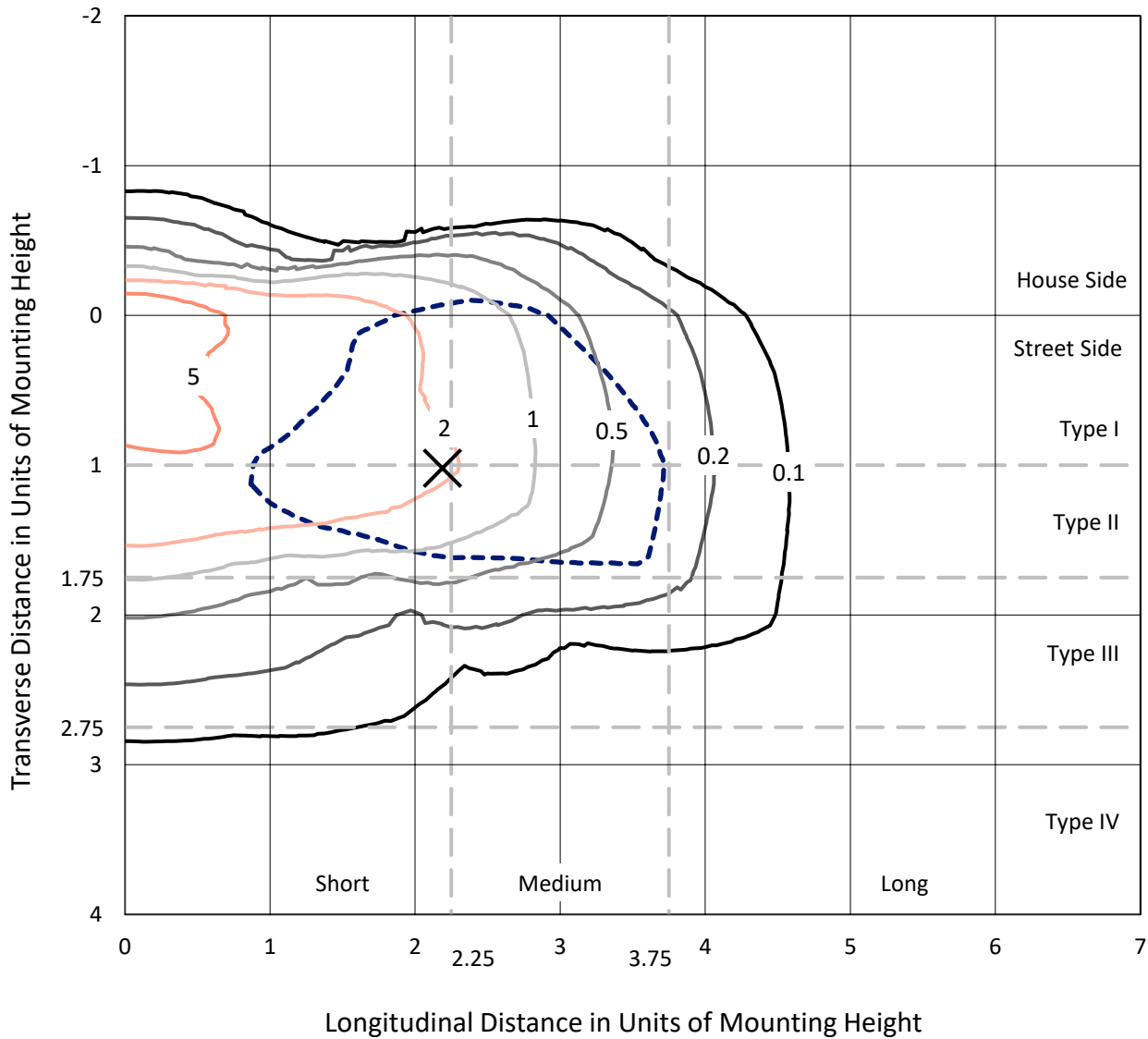
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P639956
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Iso-Footcandle Lines of Horizontal Illumination

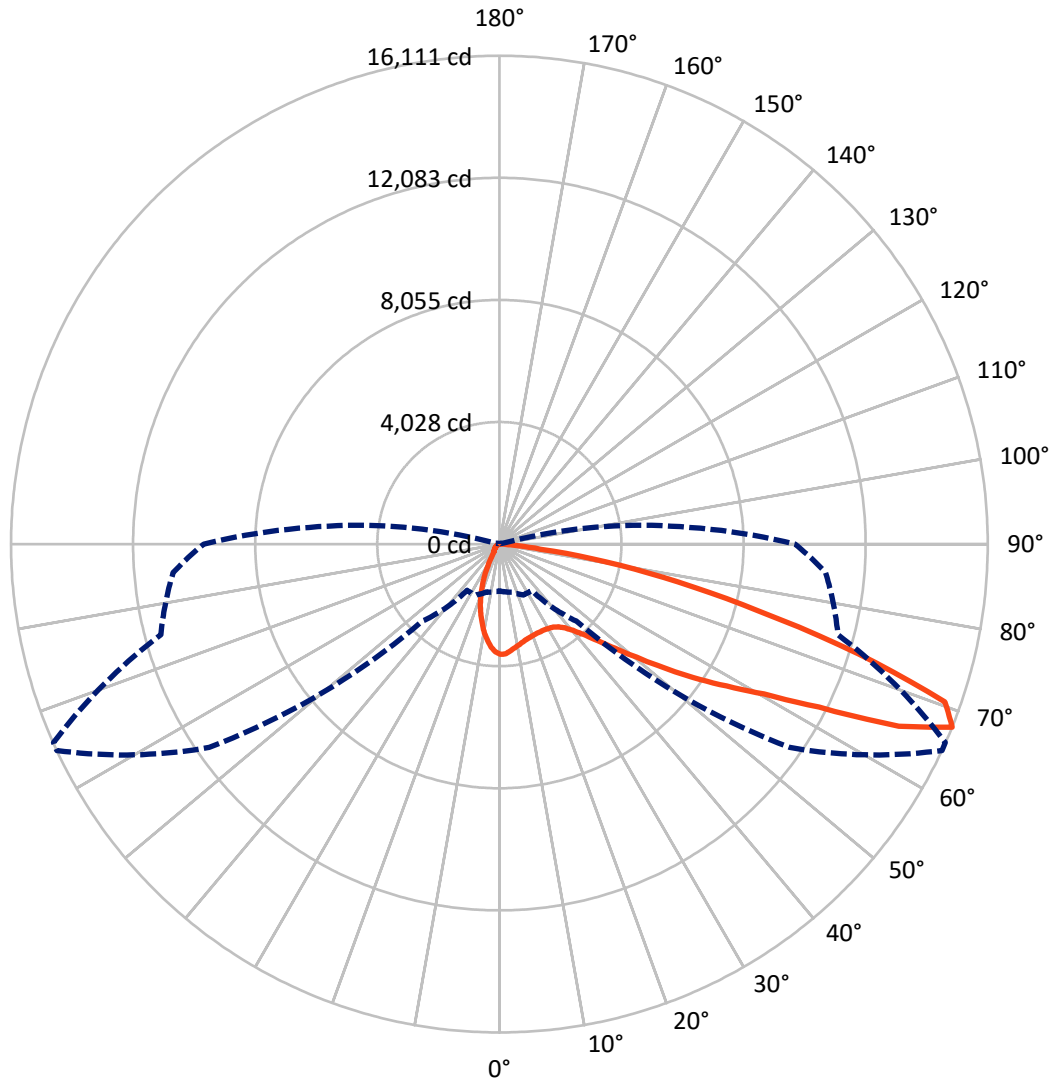
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Short - N/A

REPORT NUMBER: P639956
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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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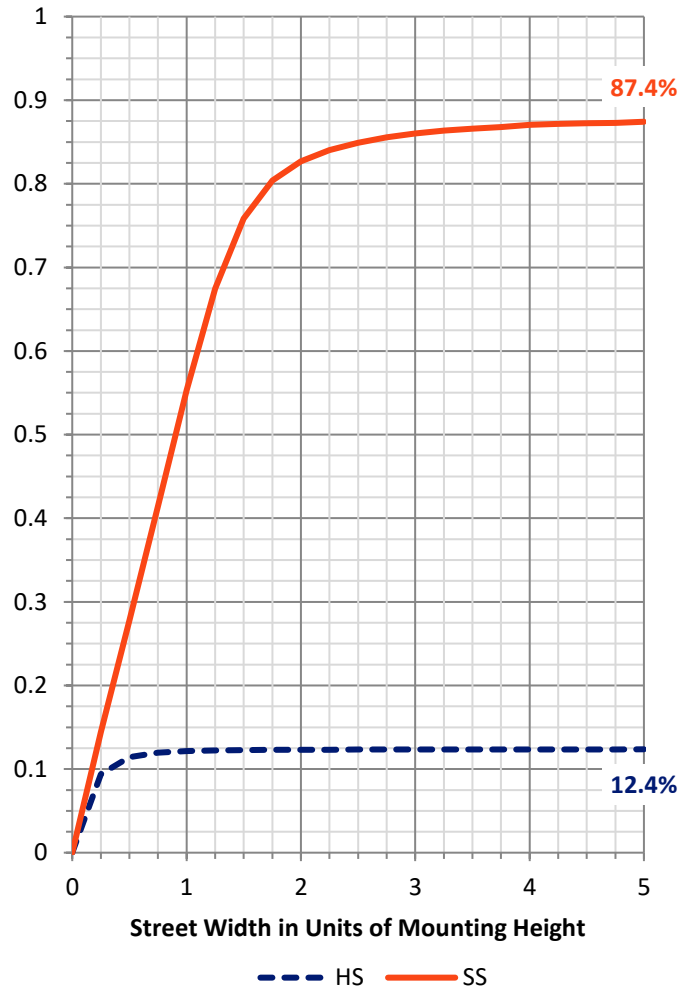
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1872.5	0.0	1872.5
	% Fixture	12.5	0.0	12.5
Street Side	Lumens	13122.8	0.0	13122.8
	% Fixture	87.5	0.0	87.5
Total	Lumens	14995.3	0.0	14995.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.1	2.0
10°-20°	679.0	4.5
20°-30°	970.3	6.5
30°-40°	1411.6	9.4
40°-50°	2210.8	14.7
50°-60°	3449.0	23.0
60°-70°	3788.5	25.3
70°-80°	2016.2	13.4
80°-90°	167.9	1.1
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°	14995.3	100.0
0°-180°	14995.3	100.0

Coefficient of Utilization

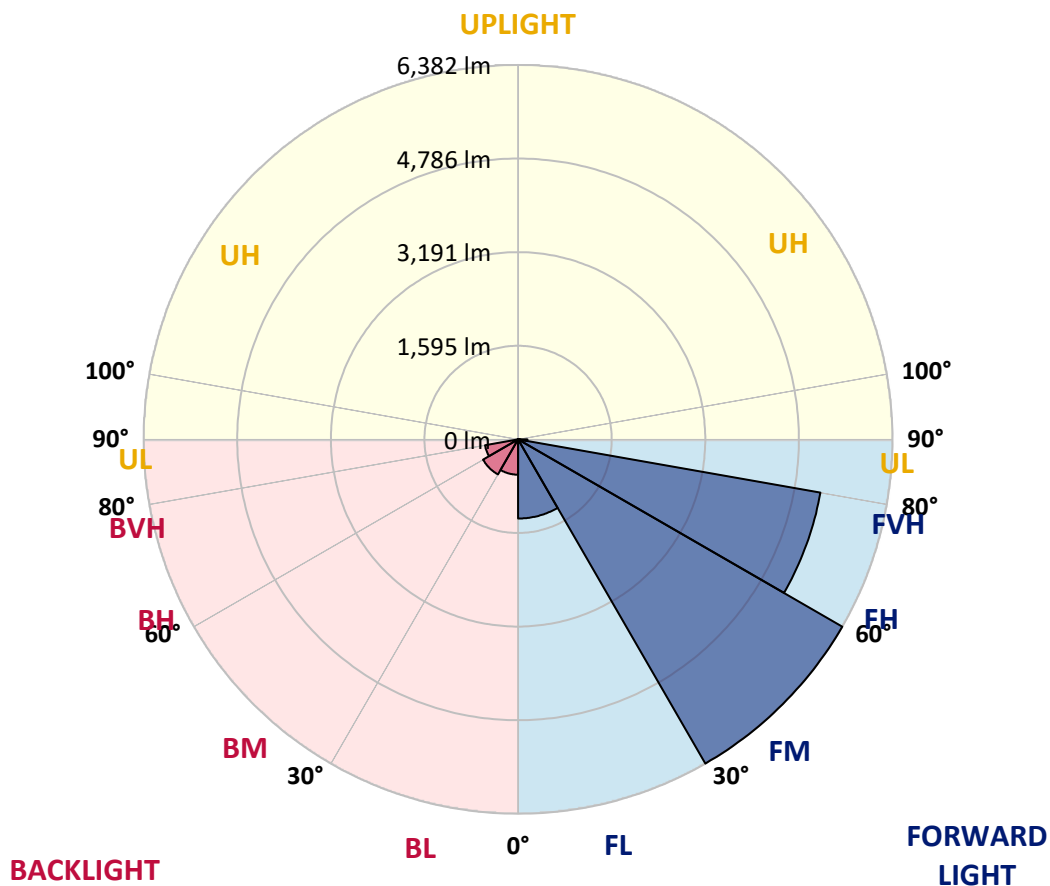


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1349.5	9.0			
FM (30°-60°)	6381.7	42.6			
FH (60°-80°)	5232.8	34.9			G3/7500
FVH (80°-90°)	158.9	1.1			G2/225
BL (0°-30°)	601.8	4.0	B2/1000		
BM (30°-60°)	689.7	4.6	B1/1000		
BH (60°-80°)	571.9	3.8	B2/1000		G2/1000
BVH (80°-90°)	9.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8
2.5°	3510.7	3521.6	3506.7	3543.3	3550.0	3590.7	3613.8	3630.1	3628.7	3649.0	3649.0
5°	3304.6	3315.5	3307.3	3346.6	3377.8	3441.6	3494.5	3555.5	3558.2	3620.6	3643.6
7.5°	3129.7	3131.0	3131.0	3179.9	3220.5	3299.2	3377.8	3471.4	3482.2	3578.5	3639.5
10°	2985.9	2990.0	2991.4	3047.0	3091.7	3186.6	3287.0	3399.5	3411.7	3541.9	3636.8
12.5°	2887.0	2888.3	2893.7	2952.0	3000.9	3099.9	3201.6	3330.4	3346.6	3499.9	3624.6
15°	2839.5	2836.8	2839.5	2888.3	2937.1	3032.0	3136.5	3274.8	3292.4	3464.6	3626.0
17.5°	2836.8	2832.7	2830.0	2866.6	2897.8	2981.9	3087.6	3238.2	3257.1	3448.3	3640.9
20°	2876.1	2873.4	2859.8	2876.1	2882.9	2952.0	3056.5	3209.7	3228.7	3445.6	3673.4
22.5°	2979.2	2972.4	2952.0	2937.1	2900.5	2941.2	3034.8	3189.3	3211.0	3452.4	3715.5
25°	3132.4	3129.7	3103.9	3067.3	2973.7	2957.5	3036.1	3189.3	3209.7	3460.6	3760.2
27.5°	3362.9	3346.6	3314.1	3250.4	3116.1	3021.2	3063.2	3197.5	3217.8	3471.4	3796.8
30°	3597.5	3596.2	3585.3	3520.2	3320.9	3143.2	3120.2	3219.2	3238.2	3480.9	3830.7
32.5°	3840.2	3844.3	3871.4	3821.3	3602.9	3324.9	3223.2	3263.9	3277.5	3499.9	3860.6
35°	4070.8	4078.9	4150.8	4168.4	3946.0	3600.2	3391.4	3353.4	3354.8	3541.9	3899.9
37.5°	4291.8	4318.9	4434.2	4519.6	4373.1	3933.8	3634.1	3505.3	3494.5	3626.0	3959.6
40°	4542.7	4594.2	4739.3	4884.4	4838.3	4374.5	3965.0	3738.5	3715.5	3780.6	4066.7
42.5°	4820.6	4876.2	5068.8	5272.2	5293.9	4907.4	4378.6	4078.9	4039.6	4040.9	4267.4
45°	5119.0	5193.5	5417.3	5710.2	5841.7	5501.4	4888.4	4538.6	4499.3	4440.9	4590.1
47.5°	5510.8	5575.9	5791.5	6129.2	6381.4	6138.7	5557.0	5129.8	5057.9	4972.5	5091.8
50°	5848.5	5905.4	6091.2	6514.3	7039.1	6960.4	6315.0	5868.8	5799.7	5654.6	5753.6
52.5°	5923.1	5967.8	6138.7	6614.6	7542.2	7997.8	7243.8	6762.4	6713.6	6445.1	6483.1
55°	5588.1	5655.9	5809.2	6338.0	7673.7	9012.1	8449.3	7770.0	7668.3	7239.8	7307.6
57.5°	4742.0	4862.7	5006.4	5693.9	7317.1	9551.8	10133.5	8837.2	8744.9	8004.6	8005.9
60°	3475.5	3573.1	3669.4	4298.6	6470.9	9515.2	11661.7	10035.9	9867.7	8629.7	8606.6
62.5°	2527.6	2577.8	2576.4	2800.2	4443.7	8888.7	12464.5	11842.1	11450.2	9298.2	9166.7
65°	1987.9	1986.6	2044.9	2118.1	2481.5	6861.4	12563.5	14479.5	14056.5	10194.5	9920.6
67.5°	1547.2	1577.0	1635.4	1851.0	1864.5	3590.7	11692.9	16110.8	16102.7	11562.7	10803.4
70°	1193.3	1234.0	1316.7	1631.3	1722.1	2009.6	8749.0	15594.2	15725.7	12174.3	10178.2
72.5°	766.1	763.4	885.5	1318.0	1654.3	1674.7	4838.3	12387.2	12536.4	11027.1	8229.7
75°	428.5	431.2	500.4	806.8	1541.8	1575.7	2396.1	8833.1	8951.1	8597.1	6323.1
77.5°	168.1	173.6	234.6	424.4	1017.0	1407.5	1423.8	6023.4	6041.0	5327.8	3878.2
80°	67.8	71.9	119.3	263.1	619.7	947.9	1017.0	3548.7	3476.8	2062.5	1128.2
82.5°	20.3	21.7	47.5	149.2	324.1	673.9	686.1	1361.4	1285.5	443.4	287.5
85°	1.4	1.4	10.8	46.1	115.3	169.5	457.0	443.4	393.2	111.2	127.5
87.5°	0.0	0.0	1.4	1.4	2.7	5.4	48.8	81.4	82.7	20.3	57.0
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: P639956

CATALOG NUMBER: GWS-SA5C-830-U-SL2-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8
2.5°	3649.0	3600.2	3596.2	3558.2	3520.2	3472.8	3417.2	3376.5	3348.0	3297.8	3288.3
5°	3643.6	3578.5	3517.5	3409.0	3288.3	3158.2	3044.3	2938.5	2872.0	2827.3	2808.3
7.5°	3632.8	3550.0	3409.0	3204.3	3002.2	2774.4	2596.8	2434.0	2322.9	2257.8	2229.3
10°	3624.6	3513.4	3284.3	2973.7	2660.5	2345.9	2076.1	1834.7	1700.4	1594.7	1577.0
12.5°	3608.4	3460.6	3124.3	2703.9	2299.8	1882.1	1537.7	1242.1	1037.4	945.1	912.6
15°	3592.1	3405.0	2964.2	2419.1	1906.6	1391.3	973.6	688.9	547.8	504.4	501.7
17.5°	3589.4	3354.8	2790.7	2149.3	1494.3	911.2	554.6	446.1	416.3	405.4	405.4
20°	3597.5	3312.7	2619.8	1838.8	1088.9	554.6	413.6	386.5	368.8	359.3	359.3
22.5°	3605.6	3269.4	2455.7	1525.5	722.8	405.4	364.8	341.7	321.4	310.5	305.1
25°	3611.1	3221.9	2274.0	1210.9	471.9	352.6	320.0	290.2	265.8	252.2	252.2
27.5°	3609.7	3164.9	2091.0	903.1	366.1	313.2	273.9	242.7	218.3	203.4	204.8
30°	3598.9	3102.6	1901.1	630.5	320.0	273.9	234.6	202.0	177.6	165.4	164.1
32.5°	3590.7	3036.1	1681.5	443.4	287.5	240.0	199.3	168.1	147.8	138.3	137.0
35°	3581.2	2971.0	1472.6	337.6	259.0	207.5	168.1	142.4	126.1	118.0	118.0
37.5°	3583.9	2903.2	1246.2	290.2	230.5	180.4	143.7	122.0	108.5	100.3	99.0
40°	3626.0	2862.5	1023.8	263.1	204.8	155.9	124.8	105.8	92.2	84.1	82.7
42.5°	3730.4	2863.9	810.9	242.7	181.7	132.9	108.5	90.9	78.6	69.2	67.8
45°	3939.2	2920.9	622.4	221.0	157.3	115.3	93.6	77.3	65.1	57.0	55.6
47.5°	4280.9	3090.4	471.9	202.0	137.0	100.3	80.0	65.1	54.2	47.5	46.1
50°	4824.7	3396.8	371.5	179.0	115.3	86.8	67.8	54.2	44.7	38.0	36.6
52.5°	5478.3	3856.5	318.7	158.7	99.0	75.9	58.3	44.7	36.6	31.2	29.8
55°	6229.5	4405.7	294.3	138.3	84.1	65.1	47.5	36.6	29.8	25.8	23.1
57.5°	6918.4	4900.6	292.9	118.0	71.9	55.6	39.3	31.2	25.8	20.3	19.0
60°	7589.6	5314.2	275.3	97.6	62.4	46.1	33.9	25.8	21.7	17.6	16.3
62.5°	8198.5	5650.5	230.5	78.6	52.9	38.0	28.5	23.1	19.0	14.9	14.9
65°	8963.3	6079.0	176.3	63.7	43.4	31.2	24.4	20.3	17.6	13.6	13.6
67.5°	9753.8	6305.5	126.1	52.9	35.3	27.1	21.7	19.0	14.9	12.2	12.2
70°	8834.4	5327.8	90.9	43.4	29.8	23.1	19.0	17.6	14.9	12.2	10.8
72.5°	6899.4	3841.6	67.8	33.9	25.8	21.7	17.6	16.3	13.6	10.8	10.8
75°	5116.2	2240.1	51.5	27.1	20.3	17.6	17.6	16.3	13.6	10.8	9.5
77.5°	2781.2	781.1	39.3	21.7	16.3	13.6	14.9	14.9	12.2	9.5	8.1
80°	736.3	214.3	27.1	16.3	13.6	10.8	10.8	13.6	10.8	8.1	8.1
82.5°	214.3	62.4	19.0	13.6	10.8	9.5	9.5	9.5	8.1	6.8	5.4
85°	104.4	23.1	13.6	10.8	9.5	8.1	6.8	6.8	5.4	4.1	4.1
87.5°	46.1	9.5	10.8	9.5	9.5	6.8	5.4	4.1	4.1	2.7	1.4
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.

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



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 [^] /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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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 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			

Summary

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



Color Vector Graphics

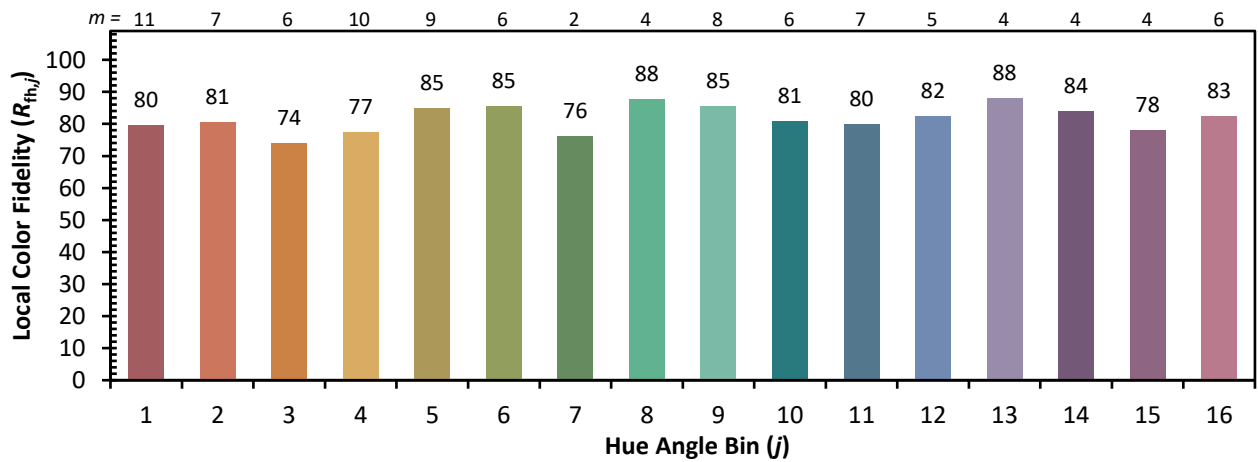
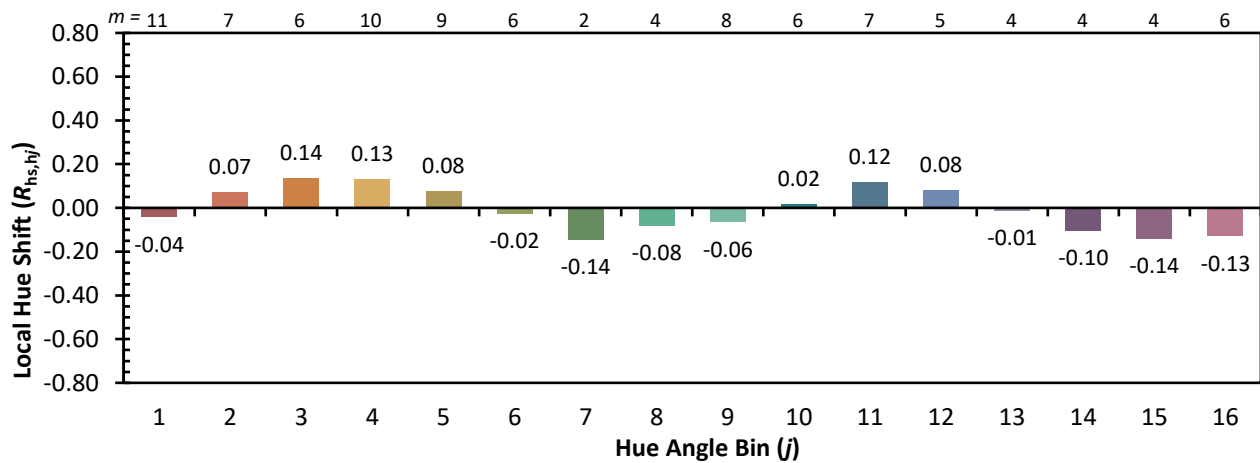
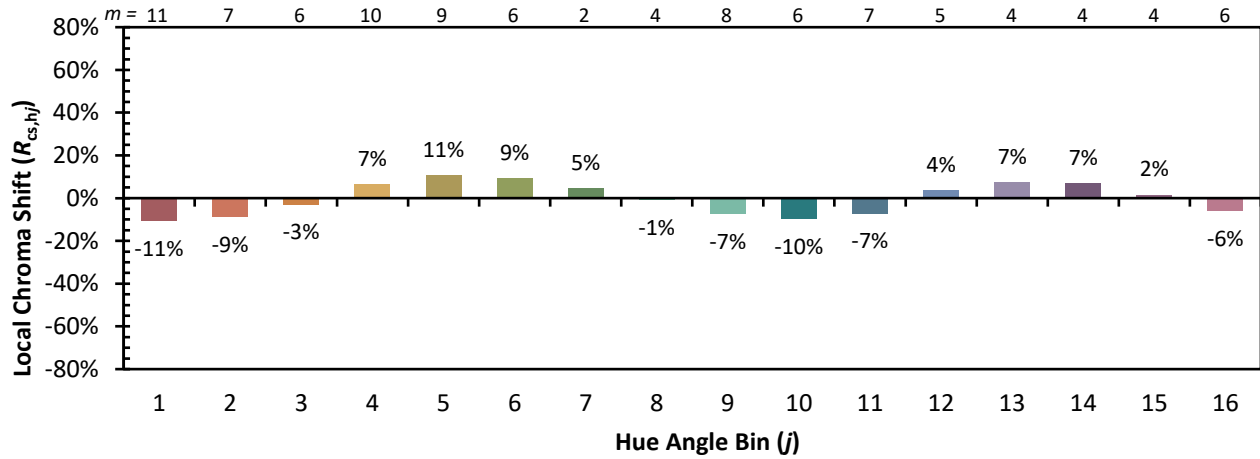


Individual Sample Fidelity Index ($R_{f,i}$)

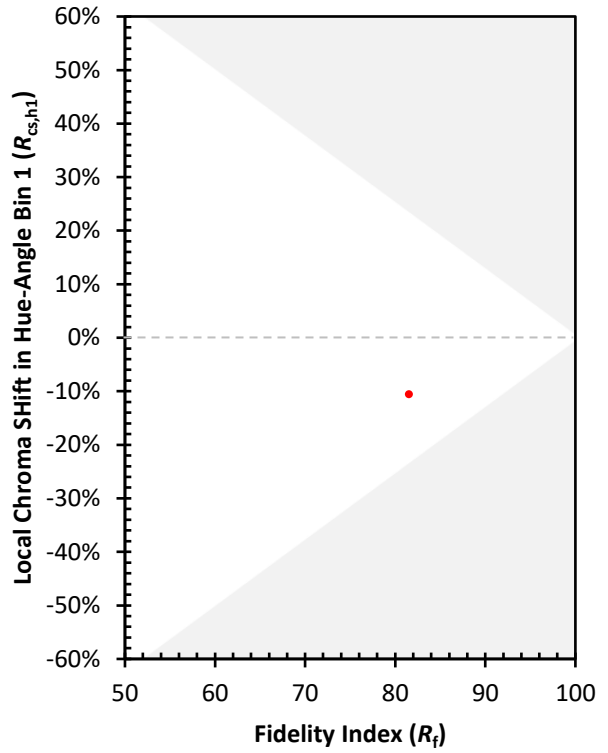
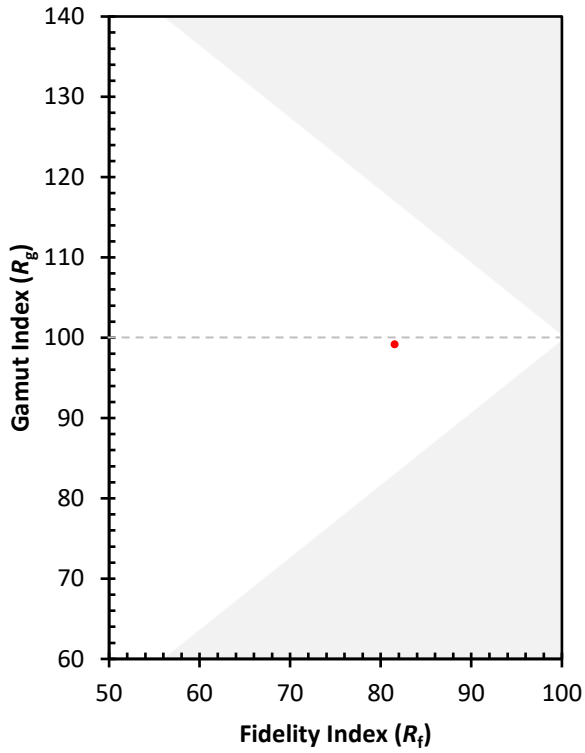
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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