

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: P321763

Luminaire Tested: **GLEON-SA9B-830-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321763
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA9B-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31224 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

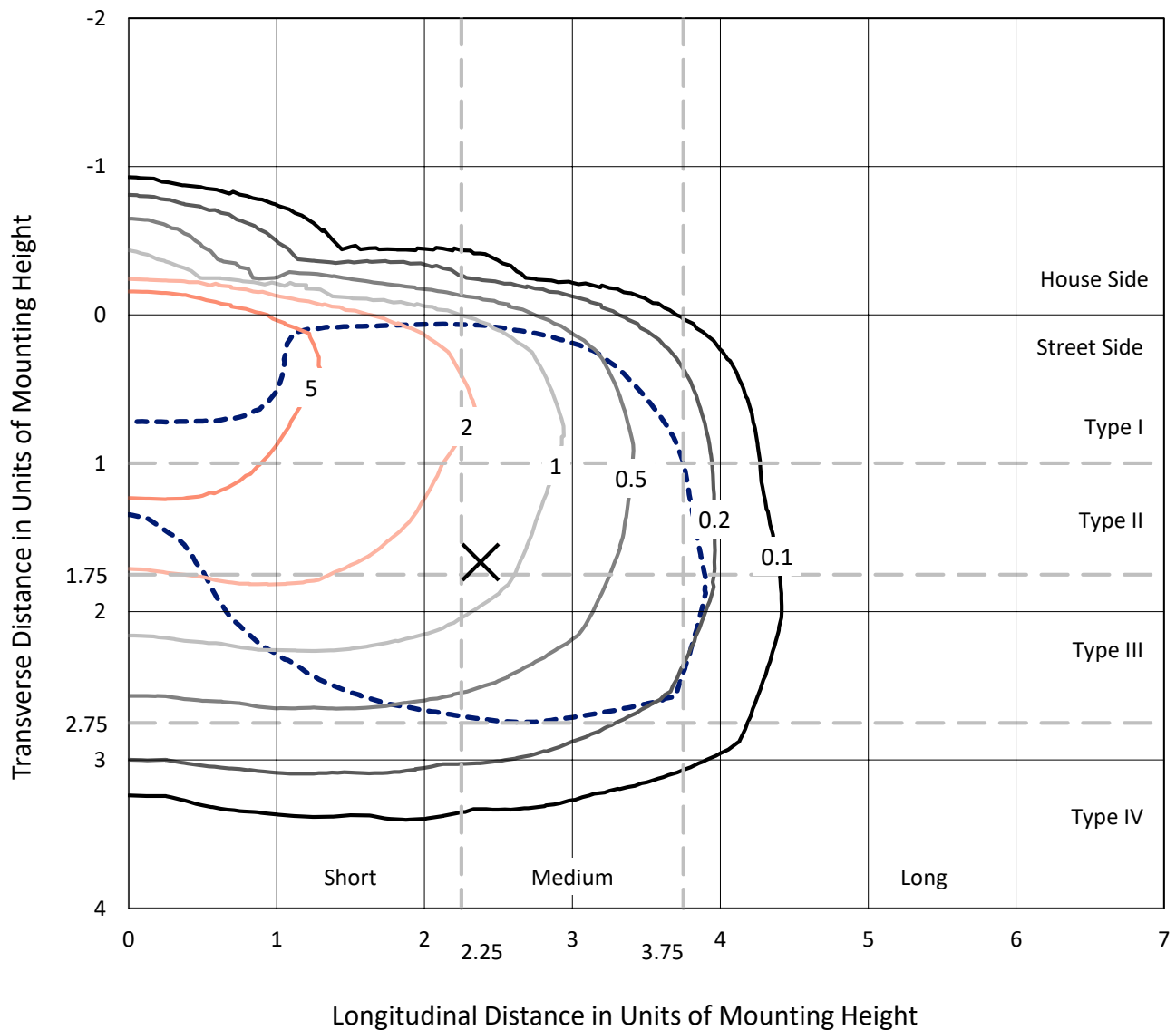
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

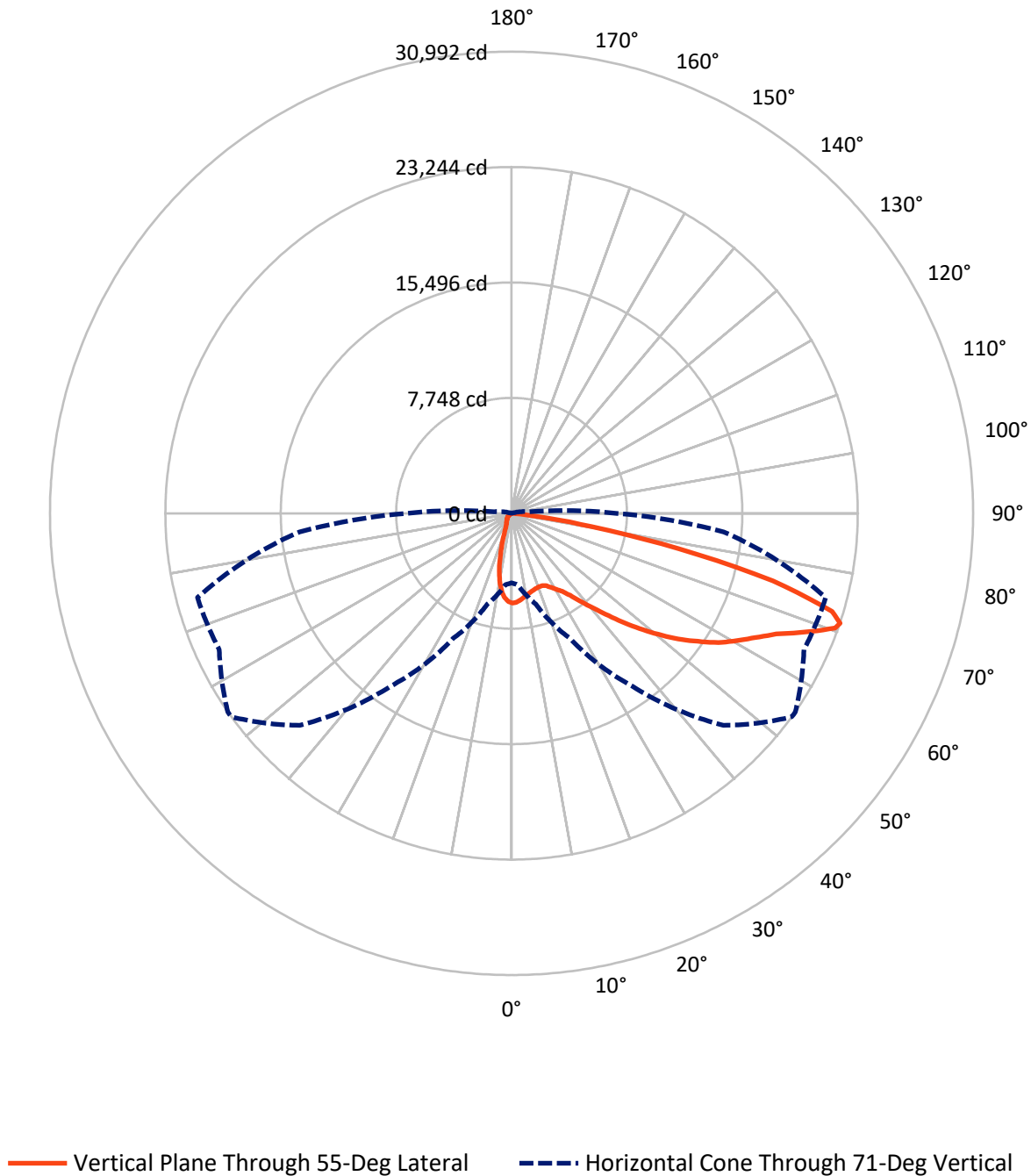
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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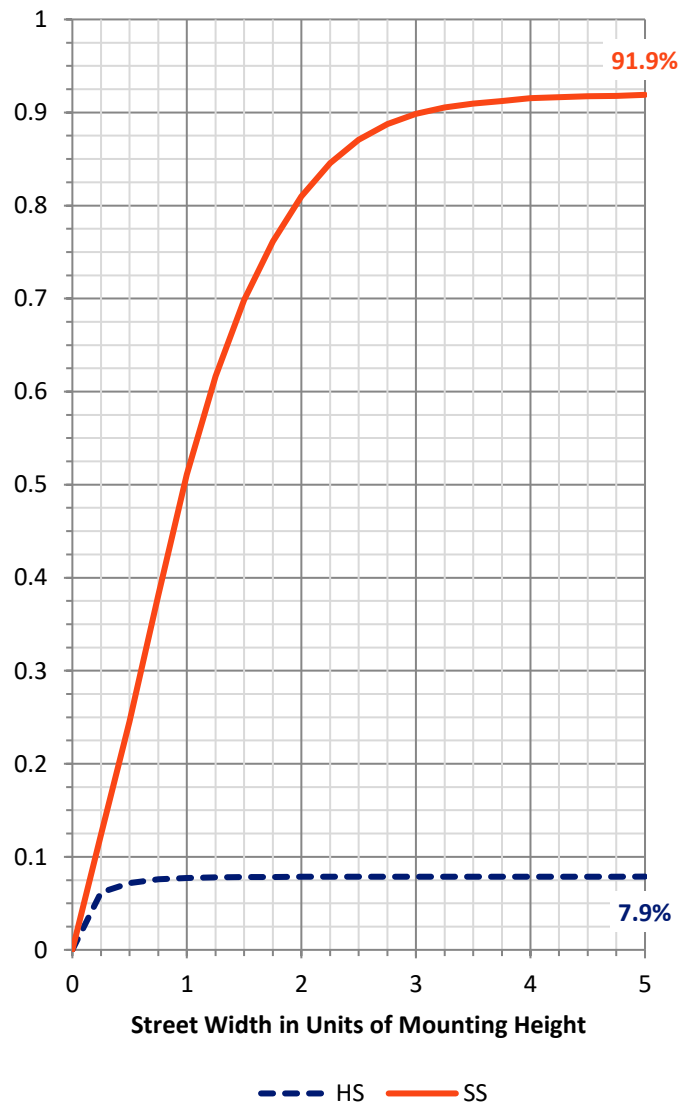
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2472.1	0.0	2472.1
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	28751.9	0.0	28751.9
	% Fixture	92.1	0.0	92.1
Total	Lumens	31224.0	0.0	31224.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	513.4	1.6
10°-20°	1159.1	3.7
20°-30°	1862.7	6.0
30°-40°	3164.8	10.1
40°-50°	4912.2	15.7
50°-60°	6604.4	21.2
60°-70°	8079.3	25.9
70°-80°	4723.8	15.1
80°-90°	204.2	0.7
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°	31224.0	100.0
0°-180°	31224.0	100.0

Coefficient of Utilization



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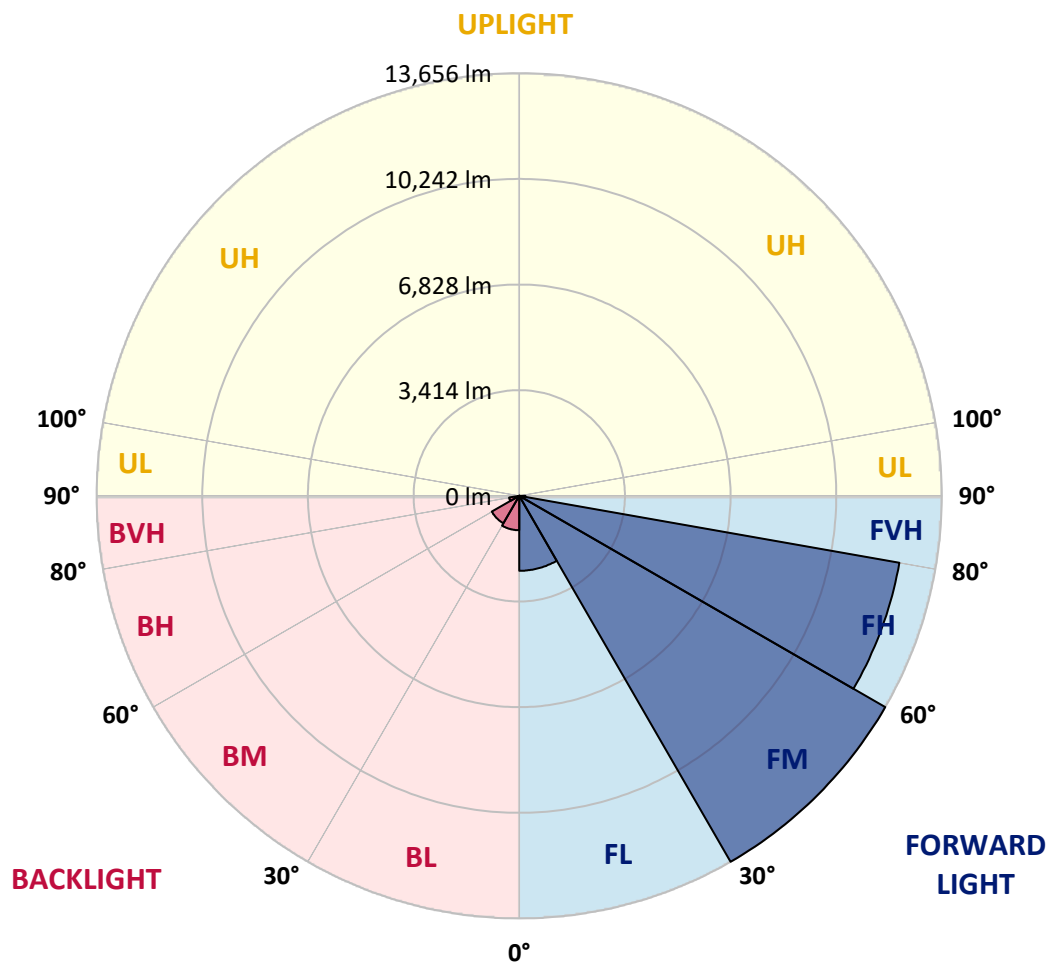
CATALOG NUMBER: GLEON-SA9B-830-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2422.6	7.8			
FM	(30°-60°)	13656.5	43.7			
FH	(60°-80°)	12471.9	39.9			G5
FVH	(80°-90°)	201.0	0.6			G2/225
BL	(0°-30°)	1112.7	3.6	B3/2500		
BM	(30°-60°)	1025.0	3.3	B2/2500		
BH	(60°-80°)	331.2	1.1	B1/500		G1/500
BVH	(80°-90°)	3.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6021.7	6021.7	6021.7	6021.7	6021.7	6021.7	6021.7	6021.7	6021.7	6021.7	6021.7
2.5°	5845.0	5852.0	5877.3	5888.5	5915.1	5960.0	5982.4	5983.8	6020.3	6034.3	6045.5
5°	5431.4	5473.5	5515.5	5560.4	5641.7	5749.7	5856.2	5866.0	5983.8	6070.7	6117.0
7.5°	5075.3	5113.2	5163.6	5235.1	5350.1	5519.7	5697.8	5718.8	5941.7	6139.4	6243.2
10°	4709.4	4740.2	4813.1	4918.3	5076.7	5303.8	5543.6	5578.6	5903.9	6232.0	6414.2
12.5°	4318.2	4336.4	4424.8	4576.2	4808.9	5097.7	5413.2	5459.5	5880.1	6338.5	6616.1
15°	4021.0	4029.4	4113.5	4270.5	4536.9	4912.7	5312.2	5368.3	5885.7	6466.1	6836.2
17.5°	3945.3	3949.5	3994.3	4102.3	4337.8	4747.2	5232.3	5301.0	5902.5	6590.9	7057.8
20°	4252.3	4222.9	4176.6	4159.8	4260.7	4647.7	5184.7	5261.8	5924.9	6701.6	7256.8
22.5°	5094.9	5008.0	4815.9	4559.4	4403.7	4654.7	5197.3	5274.4	5996.4	6837.6	7486.8
25°	6345.5	6225.0	5898.3	5393.6	4908.5	4856.6	5302.4	5380.9	6135.2	7000.3	7706.9
27.5°	7768.6	7649.4	7249.8	6529.2	5702.0	5256.2	5543.6	5616.5	6341.3	7144.7	7875.1
30°	9131.3	9097.7	8626.6	7807.8	6700.2	5903.9	5854.8	5916.5	6494.1	7231.6	8008.3
32.5°	10286.6	10233.3	9854.8	9058.4	7842.9	6682.0	6220.7	6239.0	6609.1	7343.8	8182.2
35°	11357.7	11291.8	10959.6	10206.7	9015.0	7632.6	6784.4	6757.7	6860.1	7569.5	8434.5
37.5°	12292.9	12353.2	11984.4	11268.0	10066.5	8621.0	7544.3	7464.3	7252.6	7936.8	8800.5
40°	13075.2	13075.2	12883.1	12285.9	11202.1	9643.1	8403.7	8298.5	7842.9	8503.2	9264.5
42.5°	13357.0	13417.3	13488.8	13150.9	12218.6	10705.8	9361.3	9251.9	8674.3	9306.6	9850.6
45°	13373.8	13469.2	13835.1	13833.7	13136.9	11761.5	10440.8	10388.9	9739.8	10338.5	10576.8
47.5°	13136.9	13256.1	13858.9	14201.0	13864.5	12744.3	11621.3	11556.8	10991.8	11603.1	11336.7
50°	12771.0	12902.8	13603.8	14345.4	14359.5	13599.6	12864.9	12768.2	12370.0	13048.6	12121.8
52.5°	12116.2	12371.4	13375.2	14379.1	14684.7	14338.4	14048.2	14006.1	13912.2	14440.8	12747.1
55°	10715.6	10998.8	12801.8	14390.3	14986.2	14993.2	15157.2	15168.4	15357.7	15741.8	13212.6
57.5°	10053.9	10213.7	11800.8	14443.6	15433.4	15736.2	16287.2	16374.1	16667.2	16977.0	13744.0
60°	9637.5	9826.7	11307.3	14370.7	16135.8	16710.6	17334.5	17364.0	17678.0	18251.4	14463.2
62.5°	9305.2	9491.7	10996.0	14090.3	16925.1	17882.7	18358.0	18360.8	18596.3	19769.8	15280.6
65°	8485.0	8642.0	10366.5	13774.8	17446.7	19042.2	19546.9	19528.7	19720.8	21370.9	16229.7
67.5°	7298.9	7419.5	9080.9	12578.9	17250.4	20096.5	21341.5	21281.2	21048.5	22754.7	16602.7
70°	5643.1	5686.6	7157.3	10482.9	15411.0	20501.7	23075.8	23044.9	21863.0	22506.6	15235.7
71°	4664.5	4807.5	6307.7	9251.9	14178.6	20127.3	23244.0	23262.3	21658.3	21830.8	14295.0
72.5°	2708.7	2830.7	4572.0	7105.4	12037.7	18565.5	22372.0	22503.8	20702.2	19856.8	12210.2
75°	580.4	621.1	1695.0	3439.1	6621.7	13012.1	17658.4	18128.1	16873.3	13508.4	7359.2
77.5°	403.8	436.0	726.2	1560.4	2188.5	6429.6	10969.4	11499.3	10080.5	5076.7	2355.4
80°	319.7	356.1	566.4	771.1	591.7	2073.6	5138.4	5462.3	3362.0	1132.8	396.8
82.5°	178.1	211.7	441.6	416.4	227.1	394.0	1438.5	1626.3	673.0	228.5	93.9
85°	51.9	63.1	284.6	302.8	96.7	75.7	245.4	304.2	127.6	60.3	42.1
87.5°	0.0	0.0	137.4	116.4	28.0	11.2	22.4	25.2	25.2	25.2	28.0
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-SA9B-830-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6021.7	6021.7	6021.7	6021.7	6021.7	6021.7	6021.7	6021.7	6021.7	6021.7	6021.7
2.5°	6045.5	6055.3	6020.3	5974.0	5924.9	5864.6	5801.5	5752.5	5751.1	5727.2	5703.4
5°	6119.8	6114.2	6017.5	5870.2	5696.4	5515.5	5343.1	5148.2	5083.7	5003.8	4977.2
7.5°	6257.2	6217.9	6013.2	5690.8	5309.4	4930.9	4539.7	4145.8	3977.5	3826.1	3799.5
10°	6429.6	6355.3	5986.6	5421.6	4722.0	4023.8	3433.5	2898.0	2662.4	2481.6	2473.2
12.5°	6609.1	6495.5	5912.3	5015.0	3952.3	2970.9	2290.9	1763.7	1567.5	1441.3	1452.5
15°	6797.0	6627.3	5752.5	4466.8	3076.0	2016.1	1407.6	1097.8	1019.3	987.0	995.4
17.5°	6989.1	6718.5	5529.6	3806.5	2211.0	1301.1	974.4	887.5	887.5	894.5	897.3
20°	7155.9	6767.5	5201.5	3066.2	1498.8	947.8	852.4	839.8	846.8	858.0	859.4
22.5°	7321.3	6770.3	4773.9	2316.1	1048.7	830.0	811.8	806.2	810.4	823.0	824.4
25°	7455.9	6736.7	4238.3	1647.4	837.0	782.3	773.9	771.1	773.9	789.3	789.3
27.5°	7510.6	6614.7	3585.0	1158.1	750.1	729.0	726.2	729.0	733.3	744.5	745.9
30°	7516.2	6401.6	2872.7	838.4	680.0	657.5	663.2	673.0	668.8	666.0	668.8
32.5°	7530.2	6154.9	2178.7	689.8	621.1	586.0	579.0	579.0	562.2	552.4	546.8
35°	7576.5	5864.6	1580.1	619.7	560.8	520.1	493.5	462.7	430.4	413.6	409.4
37.5°	7649.4	5560.4	1131.4	573.4	507.5	461.3	410.8	356.1	309.8	297.2	297.2
40°	7782.6	5246.3	837.0	537.0	465.5	408.0	332.3	260.8	218.7	211.7	211.7
42.5°	7992.9	4915.5	667.4	504.7	429.0	353.3	253.8	189.3	158.4	154.2	152.8
45°	8211.6	4550.9	583.2	473.9	389.8	290.2	187.9	140.2	122.0	117.8	117.8
47.5°	8430.3	4162.6	542.6	444.4	351.9	225.7	140.2	110.8	102.3	102.3	103.7
50°	8615.4	3757.4	513.1	412.2	302.8	171.0	110.8	93.9	91.1	96.7	98.1
52.5°	8661.7	3359.2	476.7	371.5	242.5	130.4	91.1	82.7	82.7	82.7	82.7
55°	8633.6	3050.8	429.0	321.1	179.5	103.7	78.5	72.9	71.5	71.5	71.5
57.5°	8729.0	2868.5	343.5	249.6	129.0	84.1	68.7	64.5	61.7	60.3	60.3
60°	8921.0	2749.4	245.4	179.5	96.7	70.1	58.9	54.7	50.5	47.7	47.7
62.5°	9176.2	2645.6	182.3	133.2	74.3	56.1	49.1	44.9	39.3	36.5	36.5
65°	9372.5	2460.5	138.8	99.5	56.1	44.9	37.9	36.5	28.0	25.2	23.8
67.5°	9072.4	2054.0	112.2	72.9	42.1	35.1	29.4	28.0	16.8	14.0	14.0
70°	7781.2	1430.1	89.7	53.3	30.8	28.0	23.8	18.2	12.6	11.2	11.2
71°	7056.3	1194.5	81.3	44.9	26.6	26.6	22.4	15.4	11.2	9.8	9.8
72.5°	5861.8	848.2	68.7	35.1	23.8	28.0	23.8	14.0	11.2	9.8	8.4
75°	3402.7	354.7	47.7	23.8	18.2	33.6	30.8	12.6	8.4	7.0	7.0
77.5°	1023.5	130.4	26.6	15.4	14.0	29.4	35.1	11.2	4.2	1.4	1.4
80°	186.5	56.1	16.8	9.8	9.8	18.2	26.6	5.6	0.0	0.0	0.0
82.5°	65.9	28.0	9.8	5.6	4.2	8.4	12.6	0.0	0.0	0.0	0.0
85°	37.9	19.6	5.6	2.8	0.0	1.4	2.8	0.0	0.0	0.0	0.0
87.5°	25.2	5.6	0.0	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
 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

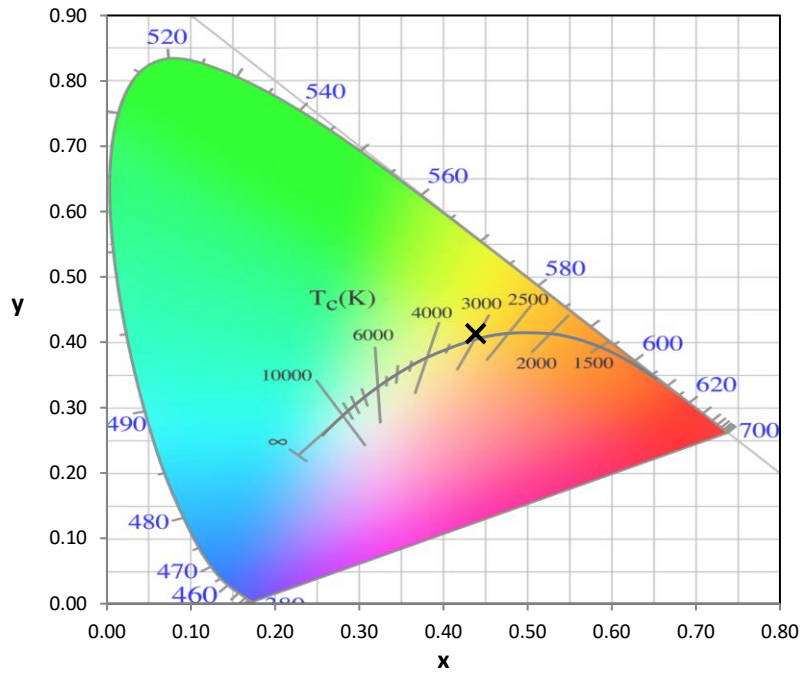
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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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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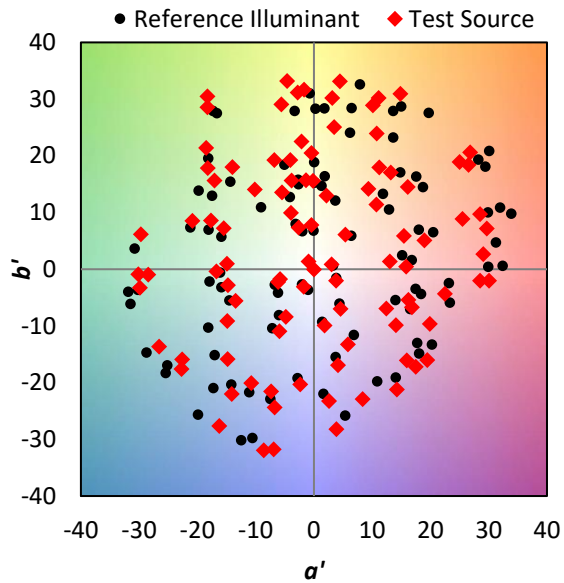
TM-30-18

Summary

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



Color Vector Graphics

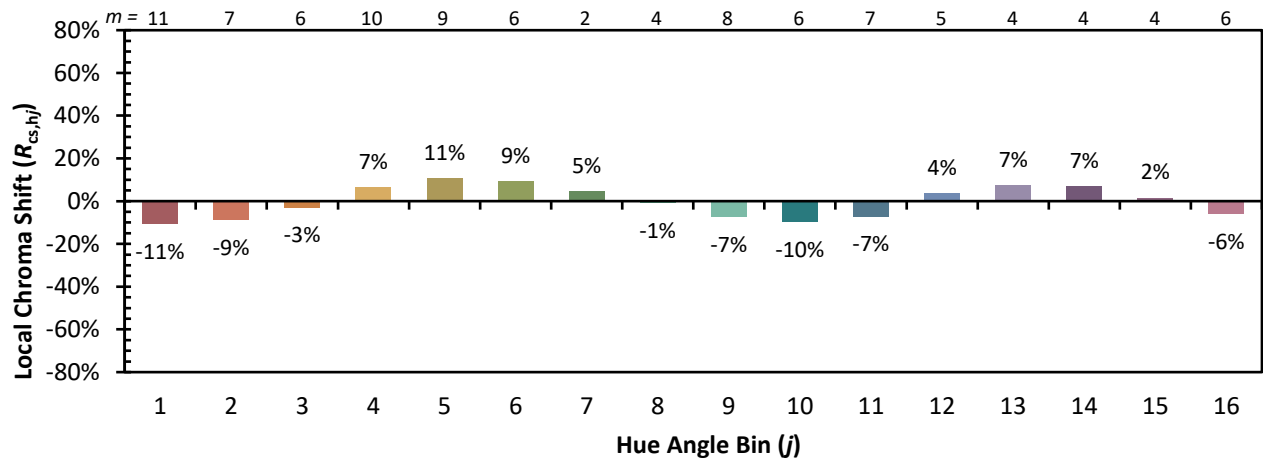


Individual Sample Fidelity Index ($R_{f,i}$)

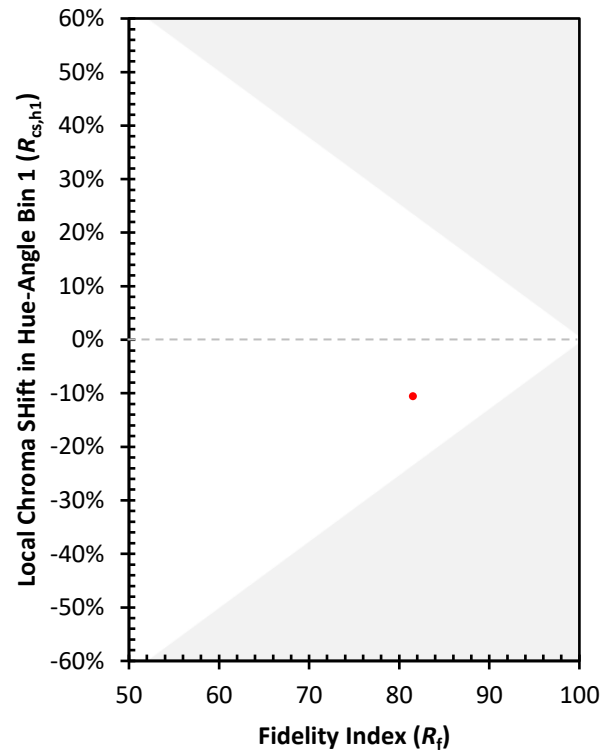
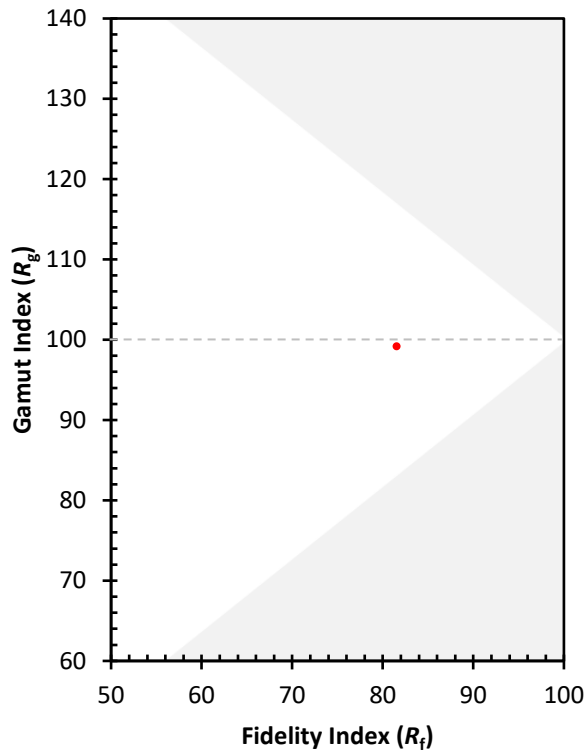
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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