

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: P323361

Luminaire Tested: **GLEON-SA7B-830-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323361
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7B-830-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26605 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

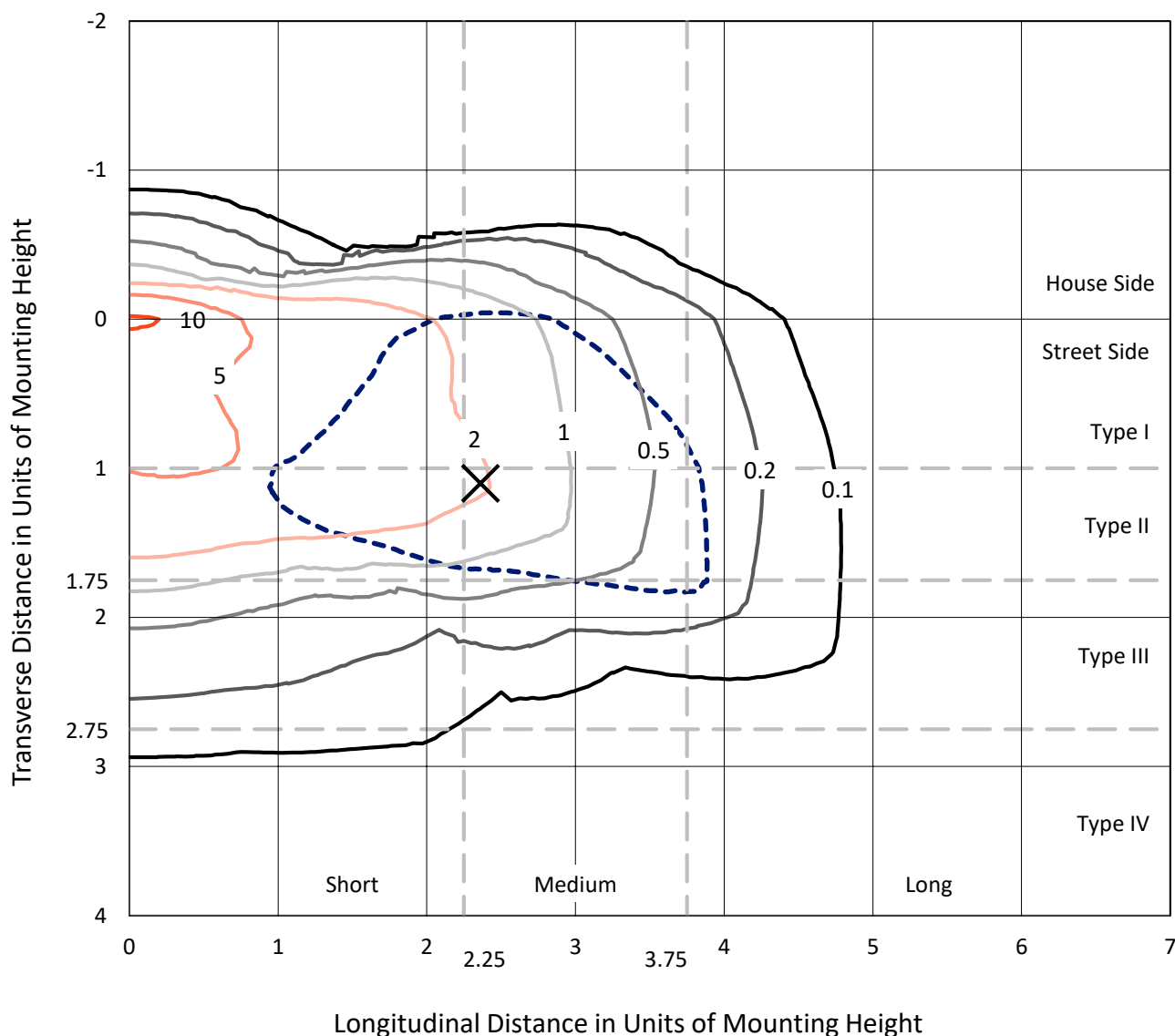
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

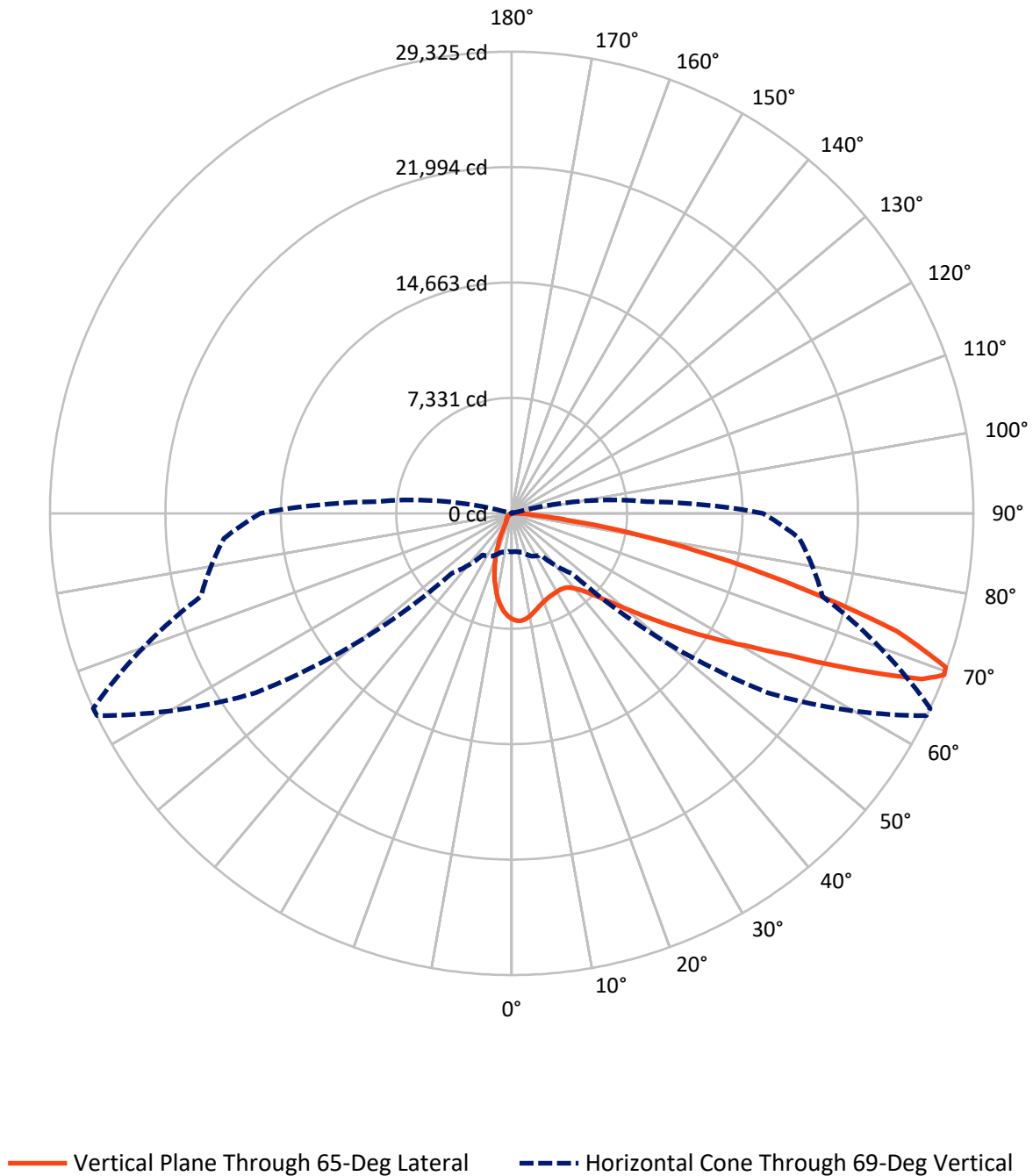
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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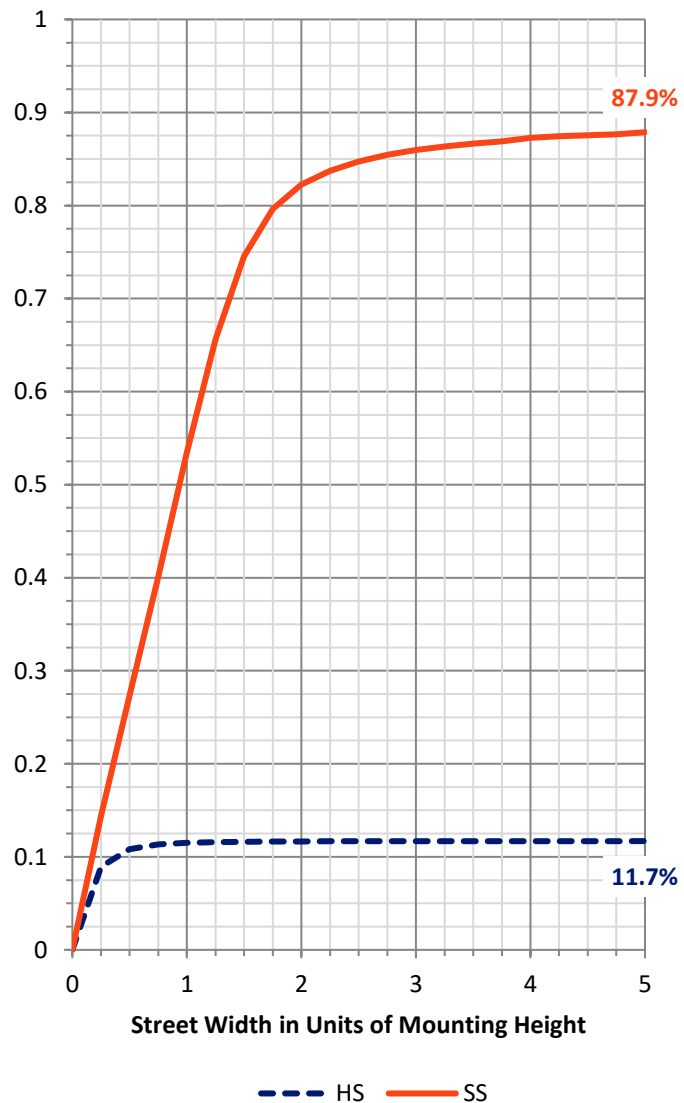
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3136.1	0.0	3136.1
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	23468.9	0.0	23468.9
	% Fixture	88.2	0.0	88.2
Total	Lumens	26605.0	0.0	26605.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	562.2	2.1
10°-20°	1230.7	4.6
20°-30°	1704.5	6.4
30°-40°	2376.6	8.9
40°-50°	3694.1	13.9
50°-60°	5930.4	22.3
60°-70°	6708.3	25.2
70°-80°	3939.9	14.8
80°-90°	458.3	1.7
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°	26605.0	100.0
0°-180°	26605.0	100.0

Coefficient of Utilization



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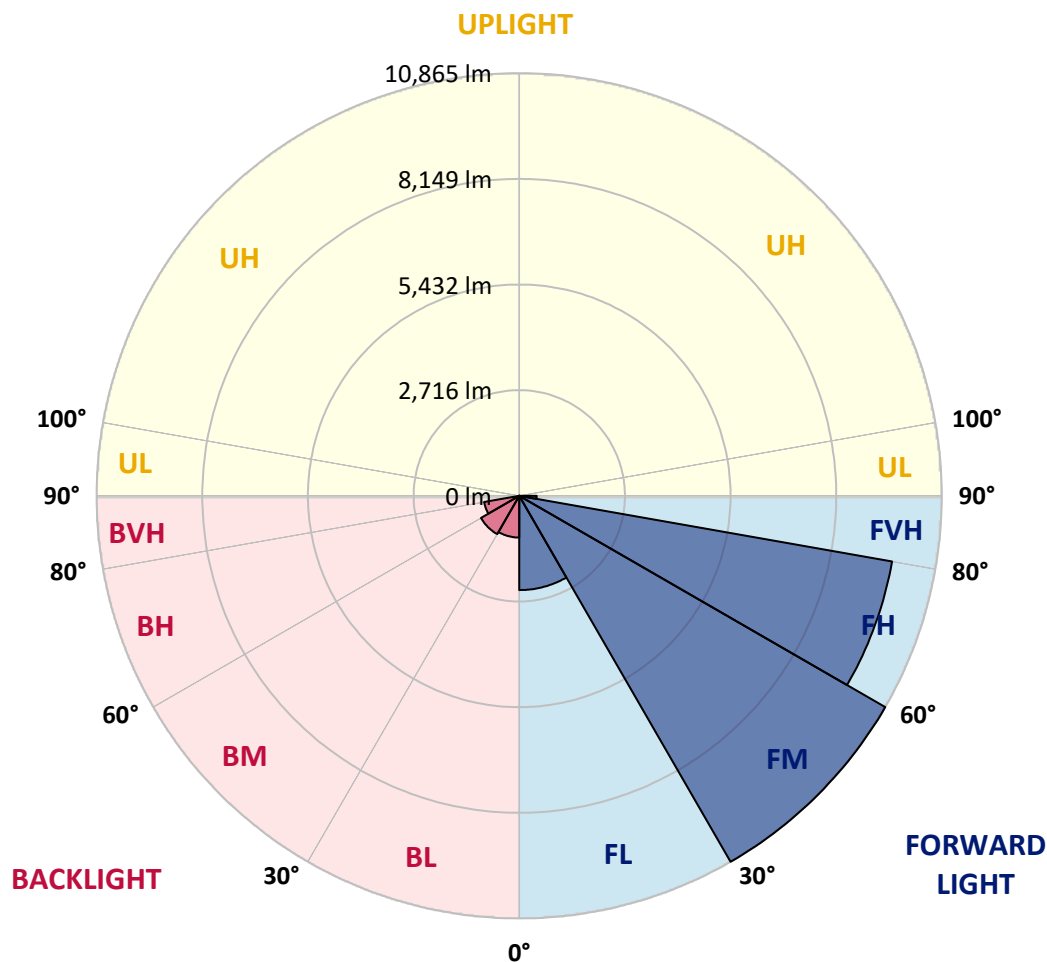
CATALOG NUMBER: GLEON-SA7B-830-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2424.3	9.1			
FM	(30°-60°)	10864.7	40.8			
FH	(60°-80°)	9731.8	36.6			G4/12000
FVH	(80°-90°)	448.0	1.7			G3/500
BL	(0°-30°)	1073.0	4.0	B3/2500		
BM	(30°-60°)	1136.4	4.3	B2/2500		
BH	(60°-80°)	916.3	3.4	B2/1000		G2/1000
BVH	(80°-90°)	10.3	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-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	6723.1	6723.1	6723.1	6723.1	6723.1	6723.1	6723.1	6723.1	6723.1	6723.1	6723.1
2.5°	6782.8	6765.9	6779.4	6808.7	6823.3	6823.3	6834.6	6821.1	6825.6	6792.9	6745.6
5°	6358.4	6332.5	6369.6	6451.8	6553.1	6639.8	6768.2	6835.7	6842.5	6843.6	6788.4
7.5°	5901.3	5877.7	5932.8	6029.7	6160.2	6321.2	6545.3	6741.1	6752.4	6858.2	6817.7
10°	5529.8	5512.9	5577.1	5680.7	5833.8	6013.9	6288.6	6561.0	6593.7	6827.8	6813.2
12.5°	5234.9	5221.3	5282.1	5401.5	5558.0	5757.2	6044.3	6360.6	6404.5	6759.2	6790.7
15°	5019.8	5017.6	5068.2	5183.1	5356.4	5542.2	5836.0	6174.9	6225.5	6684.9	6787.3
17.5°	4907.3	4910.6	4947.8	5045.7	5194.3	5379.0	5660.4	6018.4	6073.6	6618.4	6804.2
20°	4896.0	4899.4	4919.6	4974.8	5095.3	5258.5	5517.4	5886.7	5944.1	6568.9	6831.2
22.5°	4995.1	4992.8	4998.4	4992.8	5060.4	5184.2	5422.9	5785.4	5851.8	6536.3	6852.6
25°	5185.3	5181.9	5179.7	5138.0	5093.0	5159.4	5383.5	5727.9	5791.0	6512.6	6865.0
27.5°	5449.9	5447.6	5444.2	5375.6	5240.5	5198.8	5388.0	5706.6	5759.5	6493.5	6862.7
30°	5797.7	5813.5	5809.0	5713.3	5502.8	5319.3	5435.2	5695.3	5741.5	6456.3	6839.1
32.5°	6206.4	6237.9	6262.7	6160.2	5896.8	5558.0	5544.4	5707.7	5741.5	6428.2	6796.3
35°	6630.8	6671.3	6762.5	6726.5	6379.8	5917.1	5732.4	5782.0	5810.1	6443.9	6776.0
37.5°	7048.5	7096.9	7295.0	7399.7	7012.5	6392.2	6025.1	5965.5	5980.1	6539.6	6798.6
40°	7533.7	7606.9	7907.4	8076.3	7767.8	7028.2	6463.1	6280.7	6286.3	6750.1	6903.3
42.5°	8170.9	8246.3	8571.7	8836.2	8618.9	7832.0	7057.5	6762.5	6756.9	7144.2	7149.8
45°	8947.7	9026.5	9363.1	9656.9	9559.0	8784.4	7818.5	7466.1	7459.4	7765.6	7617.0
47.5°	9828.0	9905.7	10206.3	10509.1	10614.9	9896.7	8787.8	8426.4	8410.7	8629.1	8338.6
50°	10583.4	10634.1	10911.0	11318.5	11795.9	11263.4	9993.5	9645.6	9628.8	9776.2	9398.0
52.5°	10858.1	10887.4	11168.8	11739.6	12930.7	13114.2	11577.5	11129.4	11117.0	11181.2	10808.6
55°	10302.0	10354.9	10700.5	11547.1	13545.3	15205.8	13576.9	12966.7	12873.2	12734.8	12283.3
57.5°	8786.7	8871.1	9242.6	10368.4	13258.3	16865.2	16515.1	15044.9	14907.5	14060.9	13482.3
60°	6583.5	6687.1	6995.6	8210.3	11726.1	17456.3	19725.8	17360.6	17051.0	15116.9	14584.4
62.5°	4517.7	4569.5	4778.9	5570.3	8635.8	16488.1	22411.9	20462.1	19897.0	16265.2	15776.6
65°	3450.5	3468.5	3554.1	3826.5	5142.5	13393.3	23480.3	24554.3	23870.9	17638.6	17013.8
67.5°	2780.7	2766.0	2884.2	3273.8	3443.7	8170.9	22234.1	28425.8	28106.1	19474.8	18258.9
69°	2451.9	2431.7	2552.1	3004.7	3234.4	5401.5	19876.7	29305.1	29325.3	20444.1	18344.5
70°	2206.5	2220.0	2339.4	2844.8	3163.4	4239.7	17625.1	29081.0	29240.9	20806.6	17831.2
72.5°	1473.6	1509.7	1749.5	2361.9	3041.8	3208.5	10642.0	24955.1	25569.7	19990.4	15298.2
75°	830.8	857.8	1142.7	1781.0	2866.2	3055.4	5621.0	18385.0	18979.4	16716.6	11797.0
77.5°	407.5	422.2	646.2	1149.4	2396.8	2911.3	3188.2	12488.2	13167.1	10911.0	6672.5
80°	172.2	180.1	323.1	709.2	1713.4	2778.4	2367.5	7685.7	7770.1	4274.6	1777.6
82.5°	66.4	68.7	136.2	442.4	1088.6	2166.0	1980.2	3644.1	3556.3	804.9	405.3
85°	7.9	9.0	49.5	265.7	605.7	1114.5	1608.7	1570.5	1453.4	159.9	208.3
87.5°	0.0	0.0	3.4	81.1	180.1	522.4	836.5	651.8	587.7	51.8	108.1
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6723.1	6723.1	6723.1	6723.1	6723.1	6723.1	6723.1	6723.1	6723.1	6723.1	6723.1
2.5°	6706.2	6695.0	6634.2	6546.4	6463.1	6359.5	6260.4	6200.8	6153.5	6122.0	6159.1
5°	6724.3	6674.7	6490.1	6253.7	6021.8	5760.6	5517.4	5311.4	5230.4	5140.3	5180.8
7.5°	6718.6	6625.2	6293.1	5872.0	5446.5	5006.3	4589.8	4268.9	4102.3	3939.1	3980.7
10°	6690.5	6532.9	6029.7	5406.0	4768.8	4136.1	3545.1	3095.9	2844.8	2617.4	2650.1
12.5°	6628.6	6409.0	5718.9	4872.4	4020.1	3185.9	2493.6	1918.3	1609.9	1473.6	1490.5
15°	6591.4	6288.6	5390.2	4332.0	3220.8	2218.9	1524.3	1133.7	992.9	947.9	953.5
17.5°	6573.4	6172.6	5050.2	3713.9	2403.5	1412.8	985.1	869.1	838.7	830.8	833.1
20°	6555.4	6055.5	4700.1	3102.6	1656.0	950.2	809.4	775.7	764.4	754.3	756.5
22.5°	6525.0	5943.0	4324.1	2483.5	1116.8	771.2	729.5	696.9	673.2	660.8	663.1
25°	6487.8	5824.8	3940.2	1849.6	815.1	687.8	648.4	602.3	574.1	551.6	552.8
27.5°	6428.2	5679.5	3543.9	1346.4	684.5	615.8	562.9	512.2	464.9	439.1	439.1
30°	6344.9	5515.2	3103.8	963.7	613.5	544.9	480.7	417.7	367.0	343.4	341.1
32.5°	6252.6	5344.1	2659.1	730.6	557.3	478.5	405.3	338.9	293.8	274.7	273.6
35°	6173.8	5159.4	2215.5	612.4	501.0	414.3	334.4	278.1	242.0	226.3	225.2
37.5°	6123.1	4974.8	1783.2	547.1	450.3	354.6	280.3	229.7	203.8	191.4	190.3
40°	6115.2	4837.5	1388.1	497.6	403.0	301.7	234.2	194.8	171.1	157.6	156.5
42.5°	6217.7	4758.7	1065.0	455.9	354.6	255.6	199.3	166.6	141.8	128.3	127.2
45°	6486.7	4783.4	819.6	418.8	306.2	216.1	168.9	138.5	116.0	105.8	103.6
47.5°	6977.6	4954.5	651.8	381.6	260.1	183.5	144.1	114.8	95.7	85.6	84.4
50°	7851.2	5356.4	544.9	341.1	217.3	156.5	119.3	93.4	77.7	68.7	67.5
52.5°	9010.7	6072.4	486.3	301.7	180.1	132.8	97.9	74.3	60.8	54.0	52.9
55°	10289.6	6939.3	448.1	258.9	147.5	110.3	77.7	58.5	47.3	41.7	39.4
57.5°	11538.1	7690.2	412.0	217.3	122.7	90.1	61.9	46.2	37.2	31.5	30.4
60°	12685.2	8380.3	370.4	174.5	100.2	70.9	48.4	36.0	29.3	23.6	23.6
62.5°	13913.5	8913.9	313.0	136.2	82.2	54.0	39.4	32.6	23.6	20.3	19.1
65°	15214.9	9310.2	245.4	105.8	64.2	40.5	32.6	33.8	19.1	14.6	13.5
67.5°	16176.3	9231.4	181.2	83.3	49.5	31.5	31.5	36.0	16.9	11.3	10.1
69°	15964.6	8590.8	152.0	72.0	42.8	27.0	29.3	36.0	15.8	10.1	9.0
70°	15351.1	7881.6	134.0	64.2	38.3	24.8	28.1	34.9	14.6	10.1	9.0
72.5°	12784.3	5936.2	104.7	48.4	30.4	20.3	23.6	30.4	14.6	10.1	7.9
75°	9616.4	3799.5	79.9	34.9	22.5	15.8	18.0	22.5	14.6	9.0	7.9
77.5°	5232.6	1370.1	57.4	23.6	15.8	12.4	12.4	16.9	13.5	6.8	4.5
80°	1345.3	344.5	36.0	15.8	12.4	9.0	7.9	11.3	7.9	1.1	0.0
82.5°	332.1	77.7	19.1	11.3	9.0	3.4	3.4	5.6	3.4	0.0	0.0
85°	182.4	38.3	12.4	7.9	4.5	0.0	0.0	1.1	0.0	0.0	0.0
87.5°	93.4	11.3	3.4	2.3	1.1	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

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

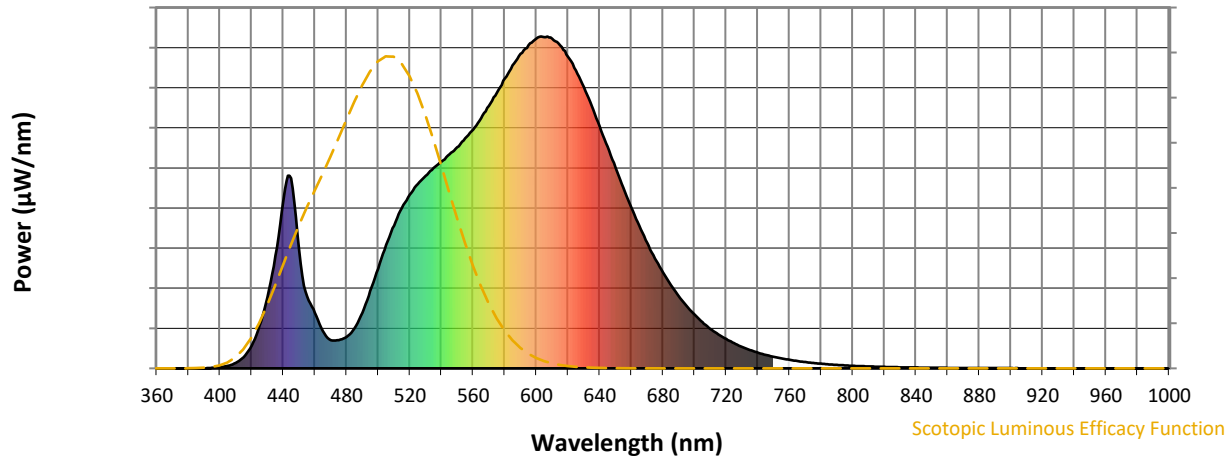


Photopic Lumens: NR

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 $\text{W}^\wedge/\text{nm}$	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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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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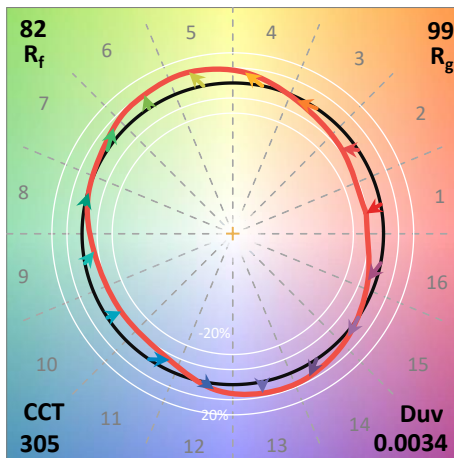
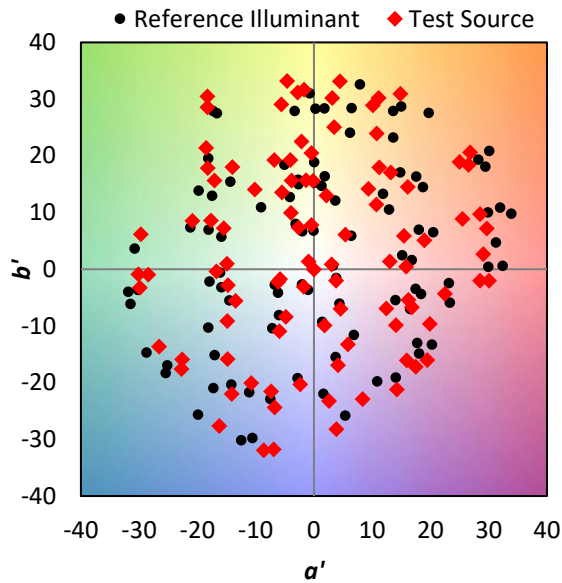
TM-30-18

Summary

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



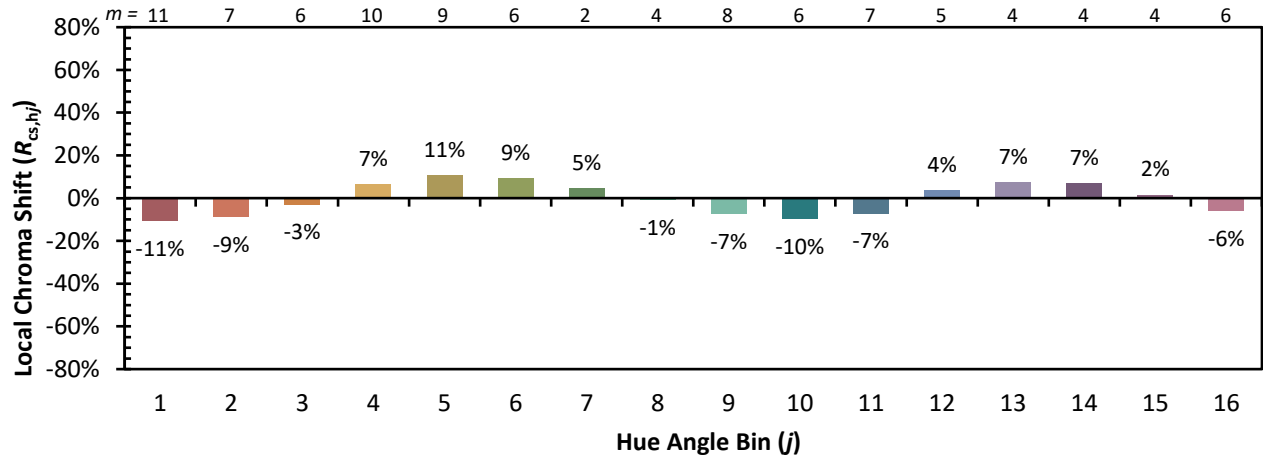
Color Vector Graphics



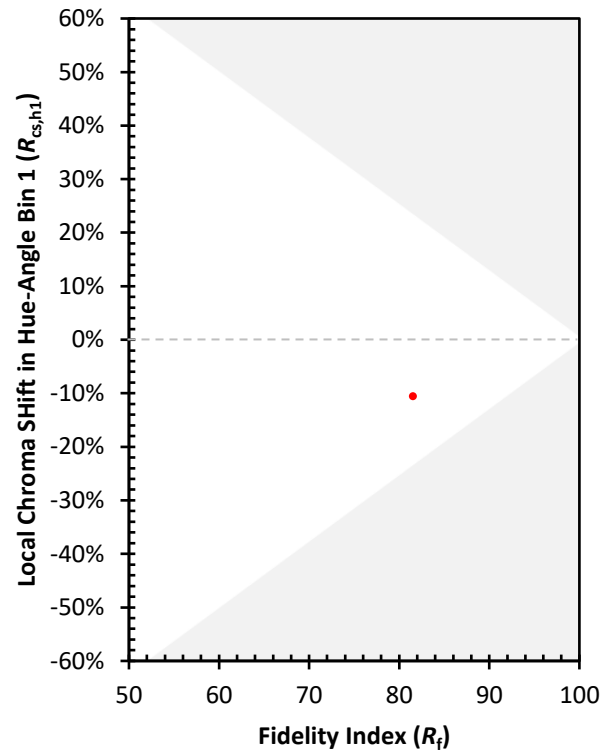
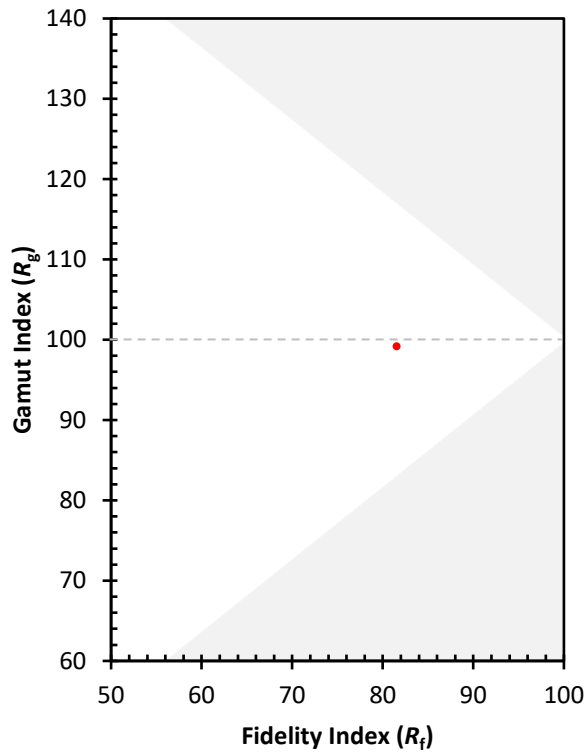
Individual Sample Fidelity Index ($R_{f,i}$)

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)