

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: P322082

Luminaire Tested: **GLEON-SA8B-830-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322082
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8B-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25890 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

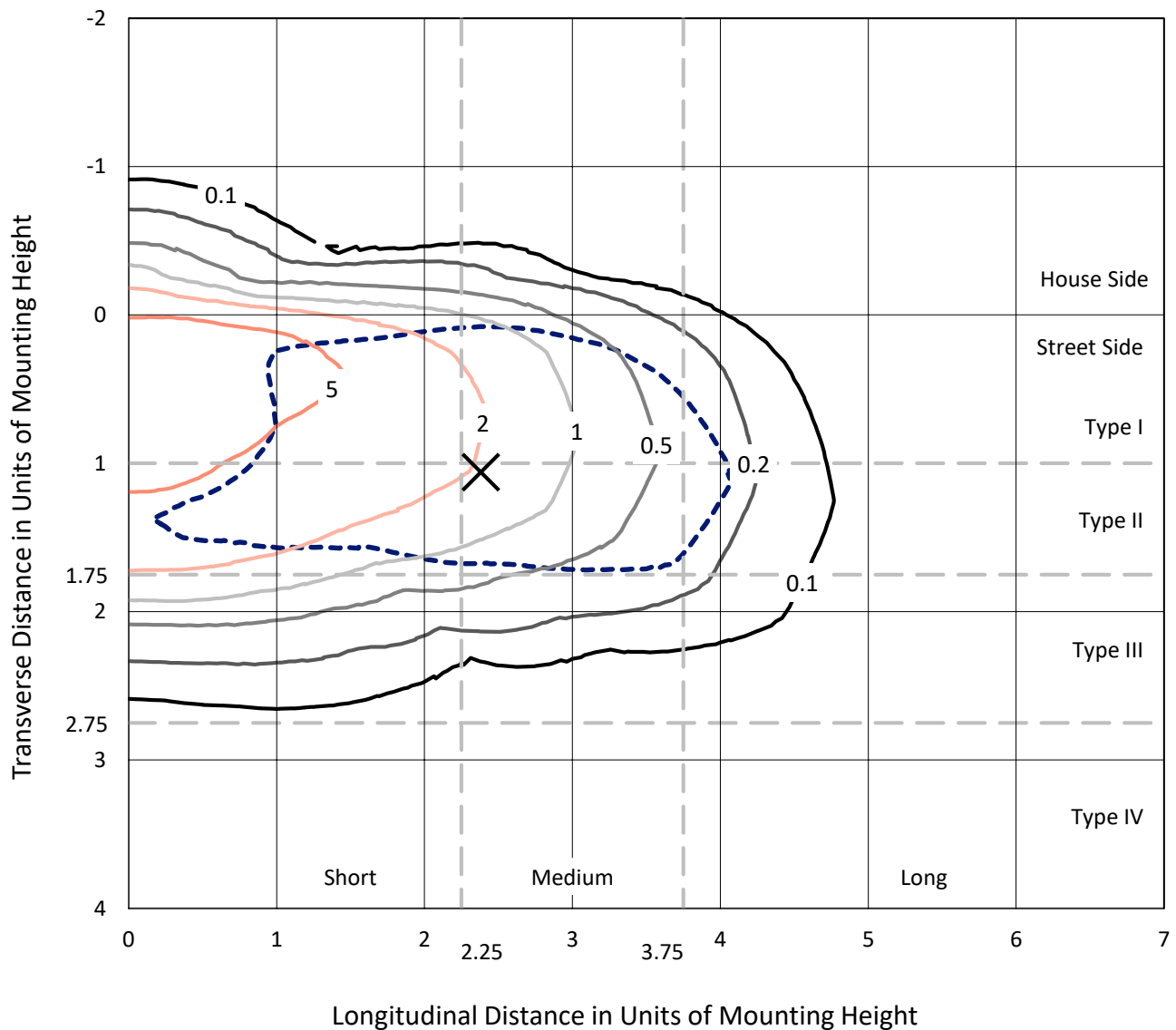
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

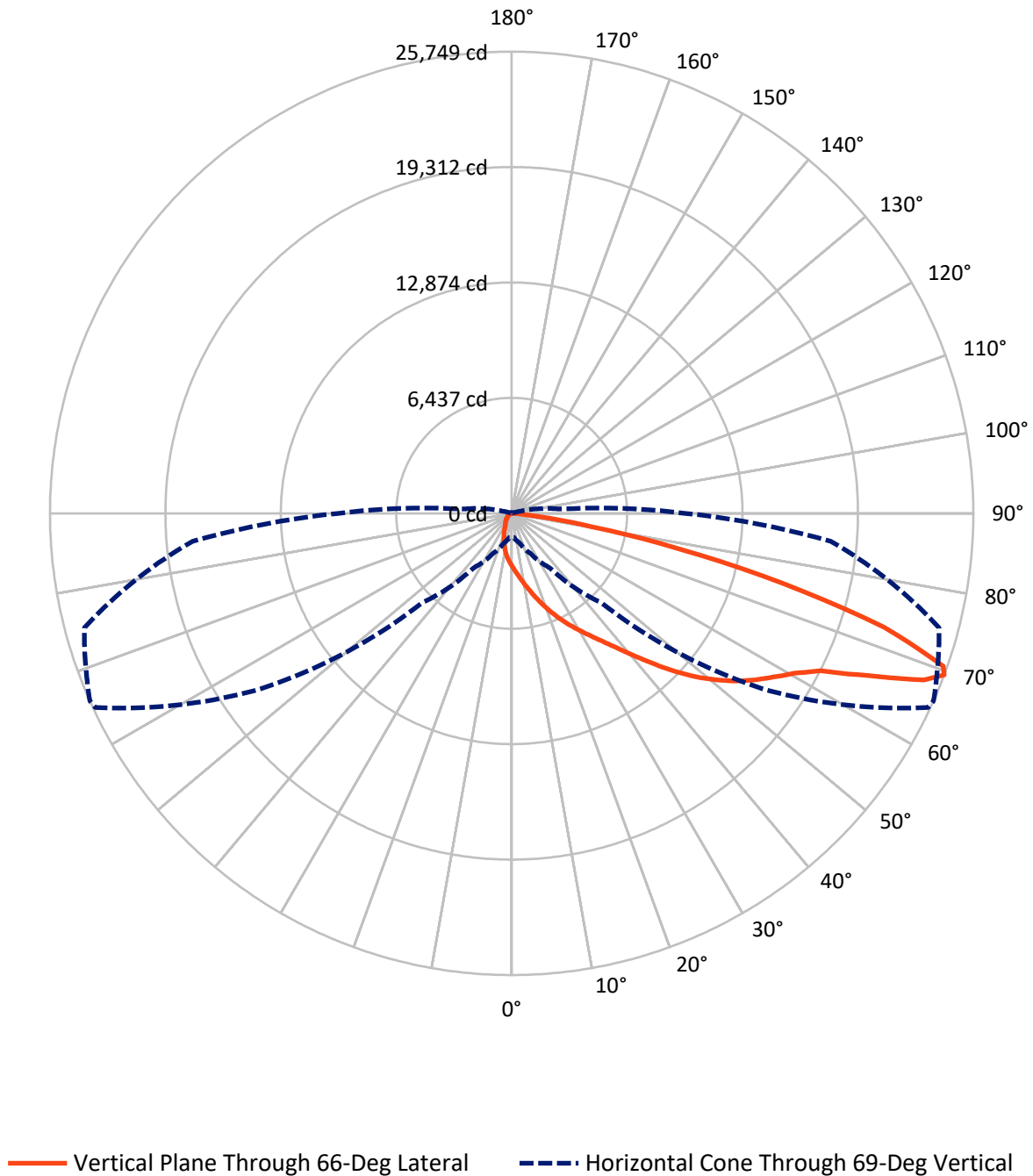
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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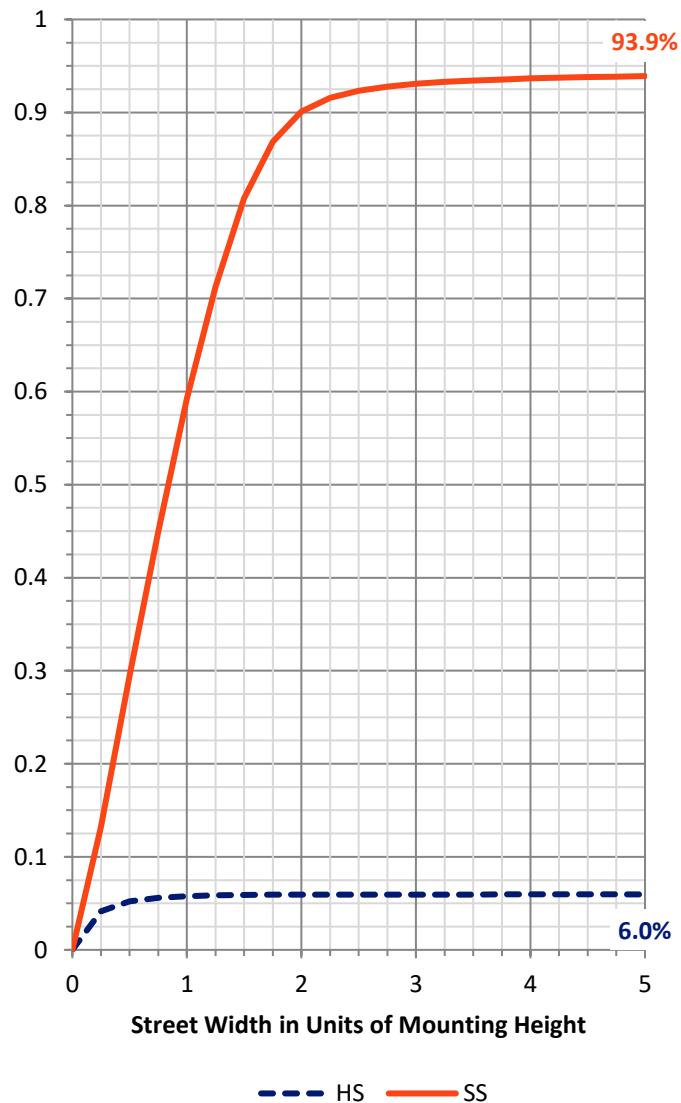
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1553.0	0.0	1553.0
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	24337.0	0.0	24337.0
	% Fixture	94.0	0.0	94.0
Total	Lumens	25890.0	0.0	25890.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.8	1.1
10°-20°	847.6	3.3
20°-30°	1476.0	5.7
30°-40°	2589.7	10.0
40°-50°	4334.8	16.7
50°-60°	6371.7	24.6
60°-70°	6542.1	25.3
70°-80°	3229.7	12.5
80°-90°	213.5	0.8
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°	25890.0	100.0
0°-180°	25890.0	100.0

Coefficient of Utilization



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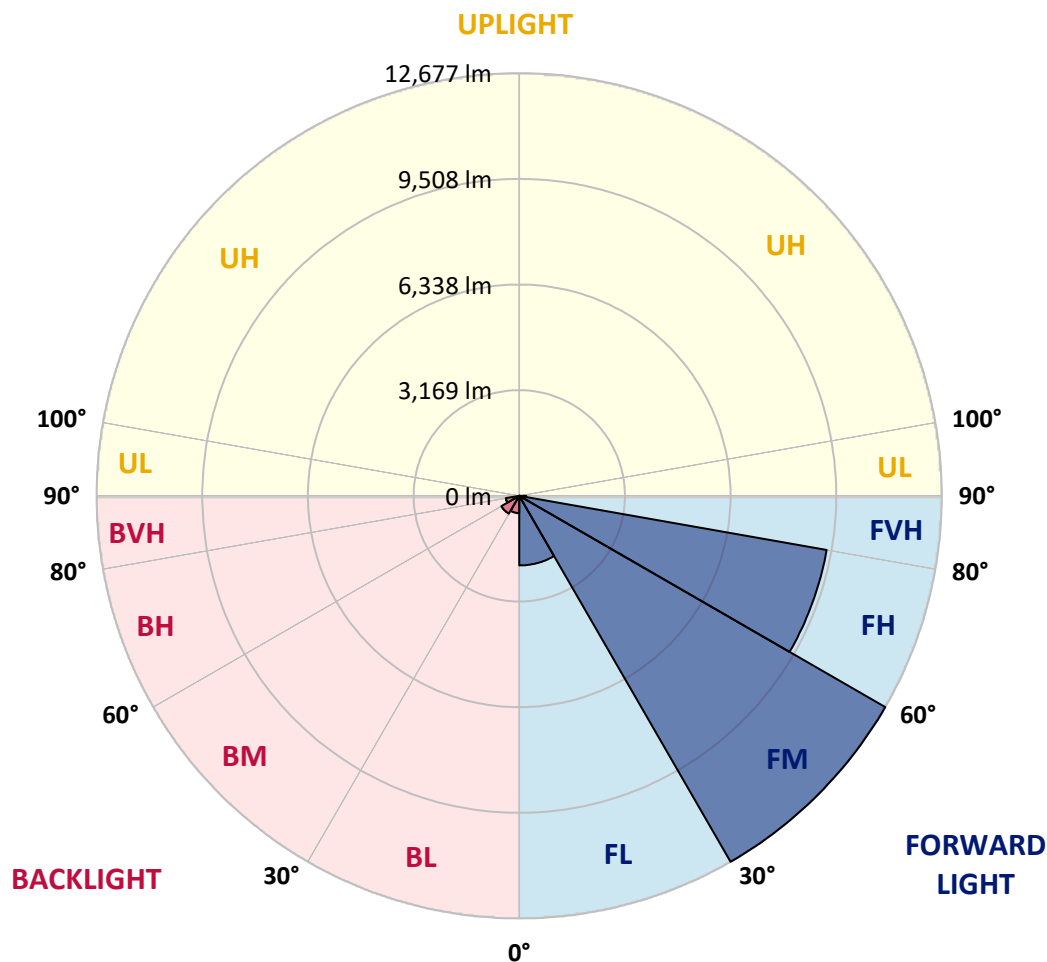
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2089.1	8.1			
FM	(30°-60°)	12677.0	49.0			
FH	(60°-80°)	9362.5	36.2			G4/12000
FVH	(80°-90°)	208.4	0.8			G2/225
BL	(0°-30°)	519.4	2.0	B2/1000		
BM	(30°-60°)	619.2	2.4	B1/1000		
BH	(60°-80°)	409.3	1.6	B1/500		G1/500
BVH	(80°-90°)	5.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2946.4	2946.4	2946.4	2946.4	2946.4	2946.4	2946.4	2946.4	2946.4	2946.4	2946.4
2.5°	3467.8	3453.0	3446.9	3419.8	3373.1	3337.4	3268.5	3188.6	3173.9	3096.4	3001.7
5°	3917.8	3905.5	3896.9	3858.8	3810.8	3721.1	3595.6	3446.9	3418.6	3271.0	3081.6
7.5°	4231.4	4253.5	4253.5	4228.9	4168.7	4101.1	3947.3	3744.4	3708.8	3482.5	3188.6
10°	4414.6	4441.7	4462.6	4483.5	4474.9	4447.8	4302.7	4074.0	4031.0	3730.9	3312.8
12.5°	4431.8	4458.9	4517.9	4605.2	4690.1	4751.6	4660.6	4439.2	4390.0	4018.7	3460.4
15°	4335.9	4364.2	4455.2	4624.9	4830.3	5009.8	5039.3	4843.8	4793.4	4361.8	3644.8
17.5°	4168.7	4187.1	4317.5	4552.4	4874.5	5204.1	5382.4	5277.9	5231.2	4754.0	3850.2
20°	4044.5	4058.0	4172.4	4424.5	4847.5	5325.8	5707.0	5739.0	5689.8	5174.6	4072.8
22.5°	4257.2	4281.8	4285.5	4404.8	4773.7	5386.1	5992.3	6192.8	6155.9	5621.0	4291.7
25°	4838.9	4867.2	4773.7	4699.9	4836.4	5413.1	6237.0	6657.6	6628.1	6101.8	4511.8
27.5°	5607.4	5637.0	5516.4	5296.3	5164.7	5515.2	6454.7	7129.8	7128.6	6610.9	4749.1
30°	6362.5	6392.0	6269.0	6048.9	5746.4	5804.2	6642.8	7624.2	7631.5	7136.0	5001.2
32.5°	7154.4	7191.3	7064.6	6781.8	6465.8	6303.5	6907.2	8120.9	8162.8	7744.7	5285.3
35°	8054.5	8059.5	7881.2	7584.8	7220.8	6971.2	7331.5	8678.0	8777.6	8498.5	5645.6
37.5°	8937.5	8973.1	8826.8	8359.5	8025.0	7742.2	7962.3	9374.0	9515.4	9419.5	6116.5
40°	9591.7	9666.7	9645.8	9141.6	8824.3	8622.7	8745.6	10201.6	10381.1	10491.8	6710.5
42.5°	10002.4	10059.0	10154.9	9851.1	9563.4	9596.6	9670.4	11165.7	11387.0	11714.1	7393.0
45°	10473.4	10500.4	10580.4	10446.3	10252.0	10586.5	10651.7	12251.5	12483.9	13028.7	8150.5
47.5°	11048.9	11112.8	11134.9	11012.0	10923.4	11462.0	11597.3	13239.0	13564.8	14436.7	8952.2
50°	11781.8	11799.0	11837.1	11757.2	11668.6	12214.6	12445.8	14275.6	14572.0	15849.6	9742.9
52.5°	12498.7	12560.2	12693.0	12642.6	12606.9	12855.3	13202.1	15210.2	15541.0	17027.7	10532.4
55°	12705.3	12758.2	13216.8	13530.4	13820.6	13644.8	13925.1	16047.6	16405.4	18080.3	11292.4
57.5°	11880.1	11987.1	12781.5	13598.0	14801.9	14872.0	14918.7	16907.2	17228.1	18887.0	12083.0
60°	9794.6	9815.5	11119.0	12519.6	14639.6	15943.1	16369.8	17830.7	18100.0	19638.3	13029.9
62.5°	6229.7	6442.4	7872.5	9849.9	12922.9	15788.1	18124.6	19227.6	19326.0	20539.7	14387.5
65°	2967.3	3105.0	4135.5	6085.8	9360.5	13804.6	19335.8	21754.7	21798.9	22326.5	16201.3
67.5°	1642.9	1709.3	2199.9	3275.9	5472.2	9762.6	18846.4	24747.7	24789.6	24151.3	17792.6
69°	1285.0	1341.6	1727.7	2469.2	3710.0	7016.7	17054.7	25624.5	25748.7	24674.0	17849.1
70°	1090.7	1146.1	1487.9	2085.6	2983.3	5421.8	15180.7	25406.9	25538.4	24624.8	17427.3
72.5°	667.7	699.7	991.1	1468.3	1999.5	2727.5	9361.7	21486.6	21709.2	22588.4	14977.8
75°	450.1	467.3	619.8	1013.3	1430.1	1404.3	4863.5	15145.0	15627.0	17571.2	11062.4
77.5°	322.2	338.2	415.6	655.4	1002.2	927.2	2202.4	9412.1	9515.4	10538.5	6032.9
80°	183.2	198.0	293.9	389.8	680.0	618.5	875.5	4495.8	4547.4	4519.2	2014.3
82.5°	95.9	108.2	161.1	257.0	436.5	404.6	364.0	1505.2	1512.5	1258.0	441.5
85°	18.4	22.1	79.9	175.8	225.0	175.8	148.8	352.9	360.3	318.5	109.4
87.5°	0.0	1.2	32.0	39.4	44.3	45.5	48.0	68.9	73.8	99.6	29.5
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-SA8B-830-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2946.4	2946.4	2946.4	2946.4	2946.4	2946.4	2946.4	2946.4	2946.4	2946.4	2946.4
2.5°	2959.9	2915.6	2830.8	2732.4	2656.2	2581.1	2522.1	2460.6	2438.5	2427.4	2426.2
5°	2989.4	2895.9	2716.4	2532.0	2380.7	2238.1	2136.0	2038.8	1993.3	1972.4	1963.8
7.5°	3038.6	2888.6	2599.6	2318.0	2100.3	1922.0	1780.6	1674.9	1622.0	1599.8	1591.2
10°	3096.4	2878.7	2463.1	2091.7	1813.8	1629.4	1489.2	1384.6	1326.8	1302.3	1290.0
12.5°	3164.0	2861.5	2305.7	1863.0	1569.1	1384.6	1214.9	1085.8	1019.4	991.1	977.6
15°	3247.6	2844.3	2140.9	1647.8	1353.9	1128.9	943.2	855.9	842.3	837.4	838.7
17.5°	3330.0	2817.2	1961.4	1435.1	1127.6	881.7	787.0	782.1	784.5	784.5	784.5
20°	3403.8	2755.8	1765.9	1253.1	912.4	744.0	724.3	715.7	709.5	704.6	698.5
22.5°	3461.6	2673.4	1577.7	1072.3	745.2	681.3	650.5	623.5	601.3	586.6	579.2
25°	3501.0	2563.9	1405.5	898.9	670.2	619.8	564.4	518.9	484.5	463.6	455.0
27.5°	3530.5	2445.9	1251.8	752.6	618.5	548.4	475.9	421.8	386.1	367.7	360.3
30°	3551.4	2311.8	1116.6	661.6	560.7	473.4	396.0	343.1	317.3	307.4	302.5
32.5°	3571.1	2163.0	988.7	618.5	506.6	404.6	332.0	291.4	275.5	263.2	259.5
35°	3620.2	2025.3	866.9	573.0	451.3	345.5	285.3	255.8	239.8	232.4	230.0
37.5°	3737.1	1923.3	750.1	526.3	396.0	298.8	249.6	228.7	214.0	206.6	204.1
40°	3925.2	1871.6	651.7	475.9	341.9	263.2	226.3	206.6	190.6	179.5	177.1
42.5°	4201.9	1879.0	582.9	425.5	298.8	234.9	204.1	180.8	163.6	153.7	151.3
45°	4537.6	1933.1	534.9	376.3	263.2	212.7	179.5	154.9	139.0	130.3	127.9
47.5°	4901.6	2020.4	495.6	332.0	234.9	191.8	154.9	129.1	115.6	108.2	107.0
50°	5285.3	2105.2	455.0	289.0	210.3	170.9	130.3	107.0	95.9	89.8	87.3
52.5°	5673.8	2203.6	418.1	249.6	189.4	146.3	108.2	87.3	78.7	73.8	71.3
55°	6091.9	2277.4	382.4	218.9	168.5	124.2	89.8	72.6	65.2	59.0	57.8
57.5°	6583.8	2391.8	345.5	189.4	143.9	103.3	73.8	57.8	51.6	45.5	44.3
60°	7247.9	2525.8	306.2	167.2	118.1	84.8	60.3	46.7	39.4	34.4	33.2
62.5°	8123.4	2674.6	257.0	146.3	95.9	68.9	48.0	36.9	28.3	22.1	22.1
65°	9233.8	2916.9	210.3	123.0	78.7	56.6	36.9	27.1	16.0	9.8	9.8
67.5°	9881.9	2958.7	169.7	100.8	63.9	48.0	30.7	18.4	4.9	1.2	0.0
69°	9674.1	2716.4	143.9	86.1	55.3	45.5	28.3	13.5	2.5	0.0	0.0
70°	9283.0	2484.0	126.7	76.2	50.4	43.0	27.1	9.8	2.5	0.0	0.0
72.5°	7670.9	1768.3	95.9	56.6	36.9	38.1	24.6	6.1	2.5	0.0	0.0
75°	5587.8	1074.8	68.9	39.4	23.4	28.3	17.2	2.5	1.2	0.0	0.0
77.5°	3108.7	506.6	43.0	22.1	14.8	17.2	8.6	0.0	0.0	0.0	0.0
80°	1009.6	137.7	19.7	12.3	8.6	9.8	3.7	0.0	0.0	0.0	0.0
82.5°	186.9	39.4	11.1	6.1	2.5	2.5	0.0	0.0	0.0	0.0	0.0
85°	40.6	16.0	6.1	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.5	4.9	1.2	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.

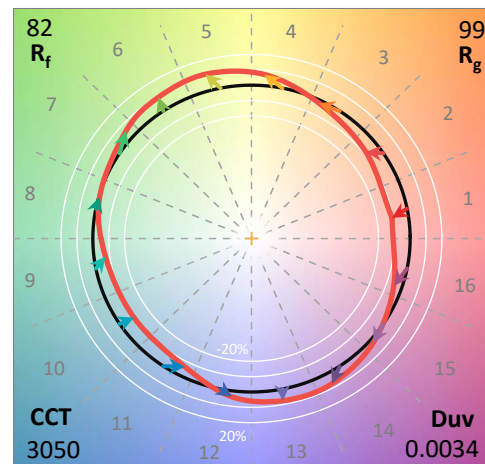
Test Information

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

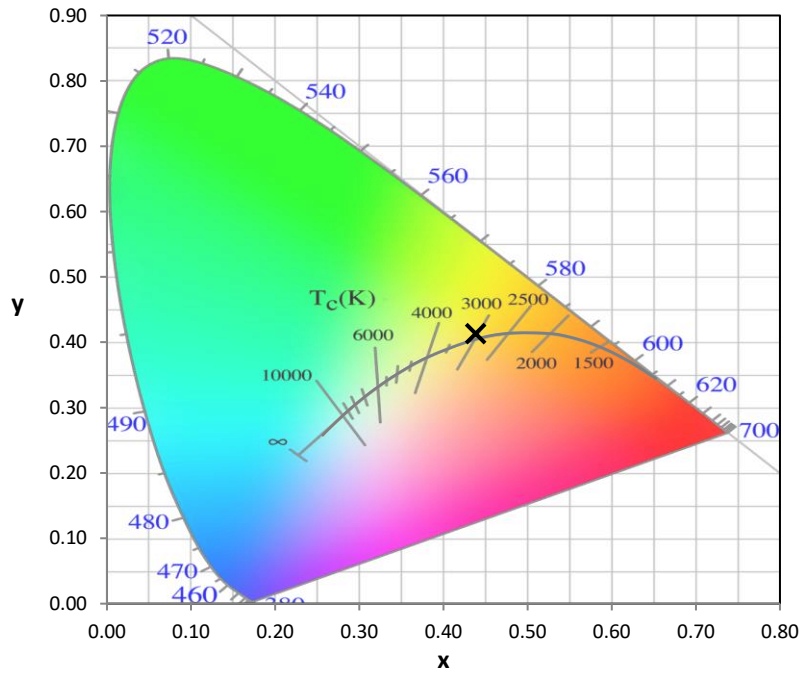
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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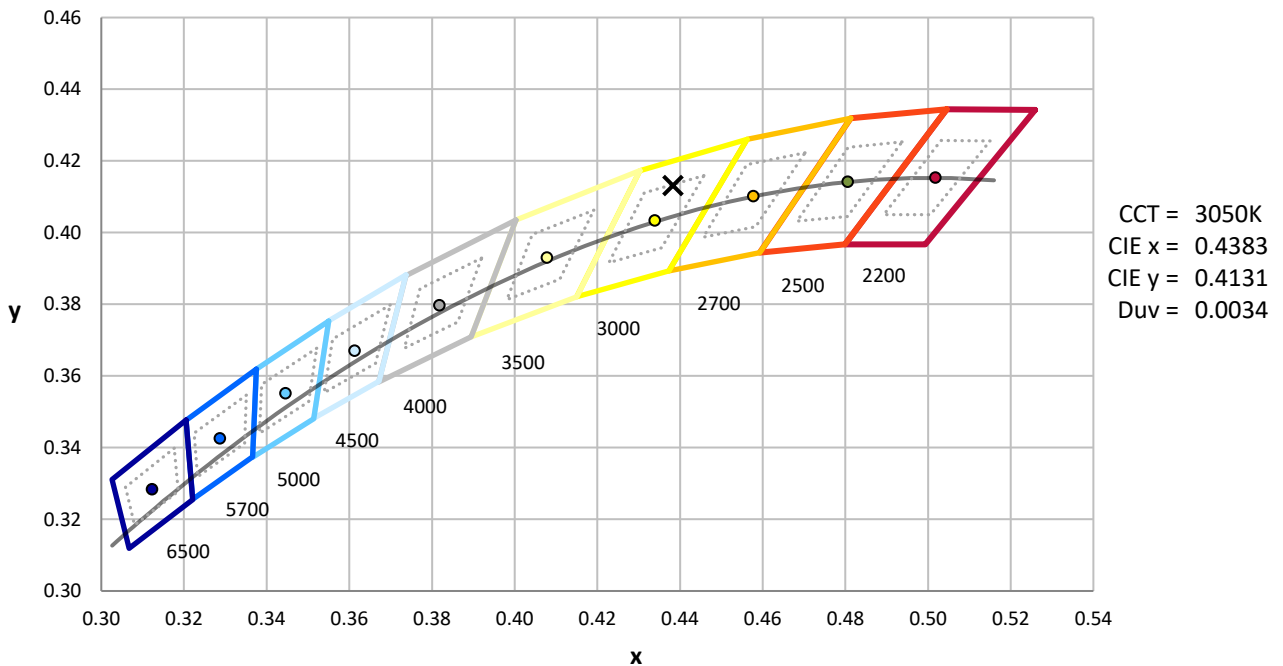
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

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CIE 1931 Chromaticity Diagram



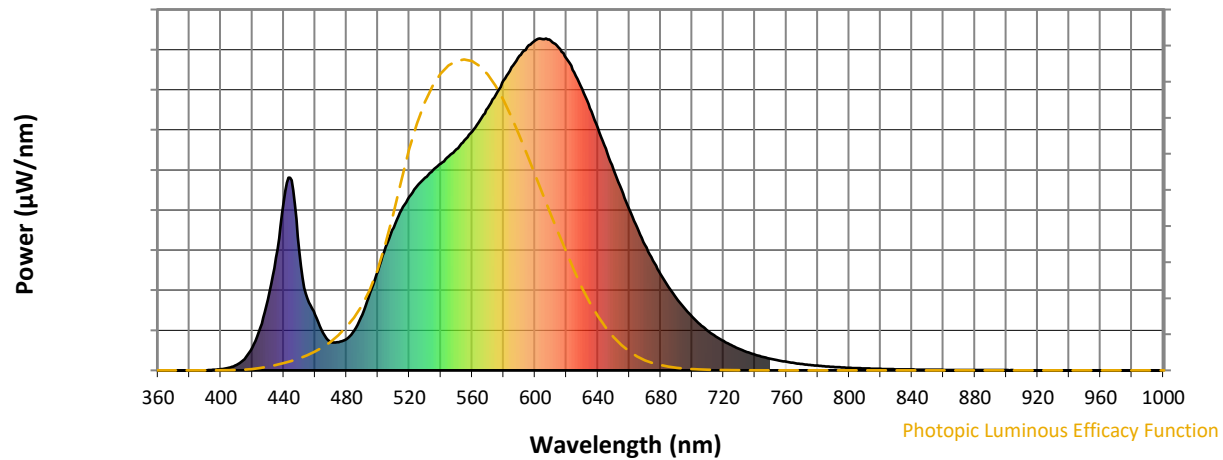
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength

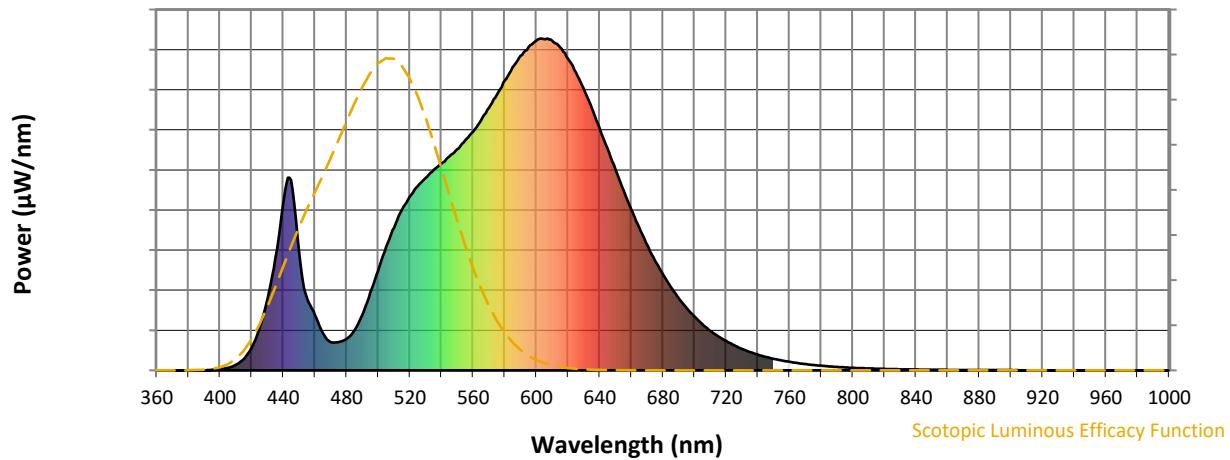


Photopic Lumens: NR

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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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Scotopic Flux vs. Wavelength



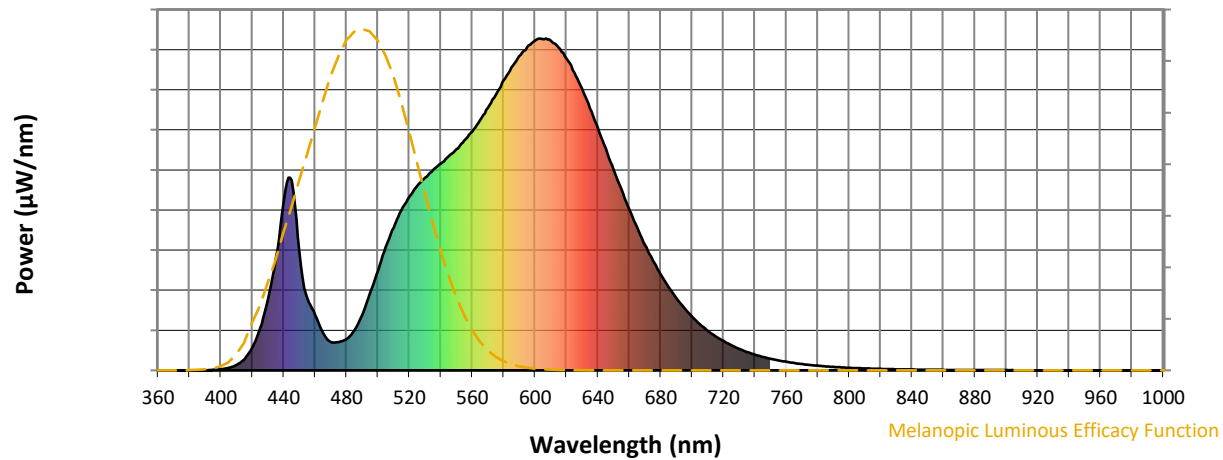
Scotopic Lumens: NR

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

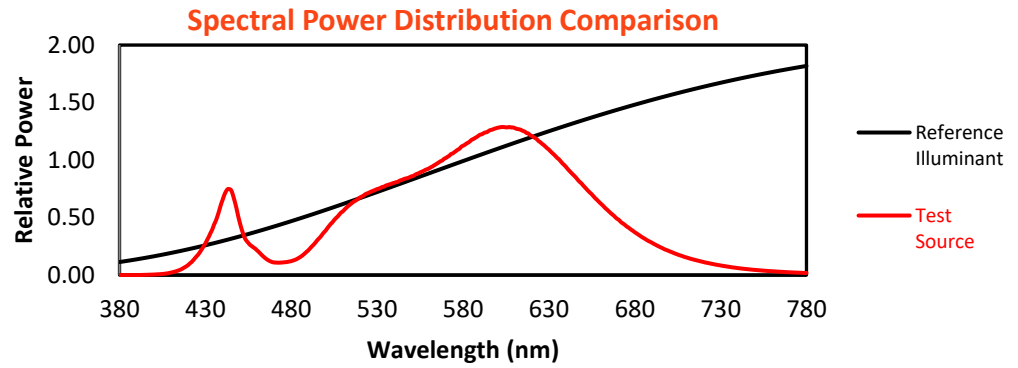
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	168	NR	620	940	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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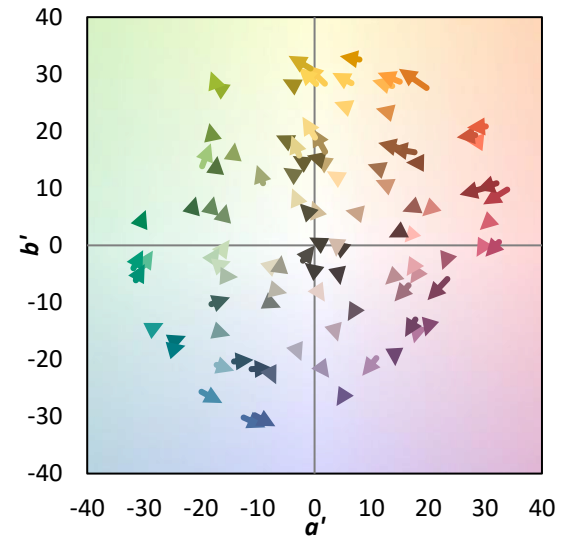
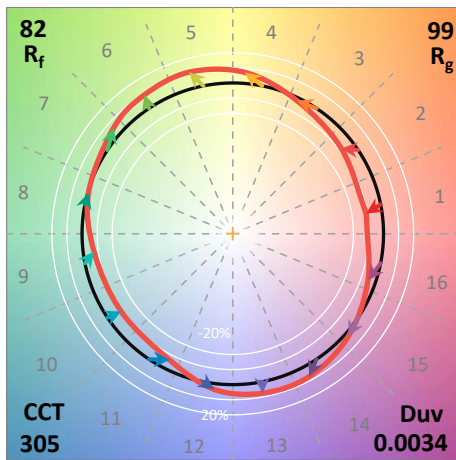
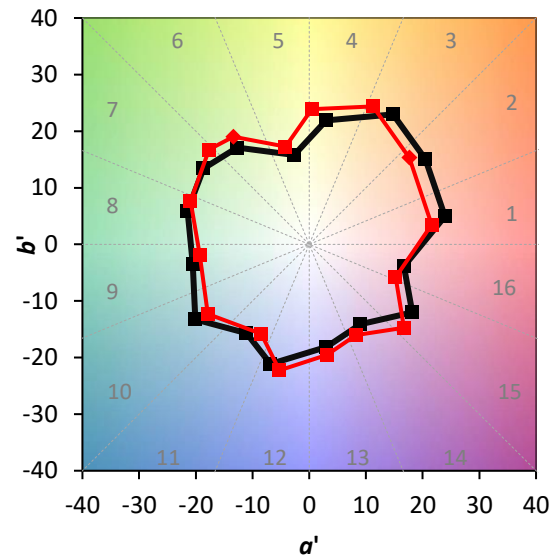
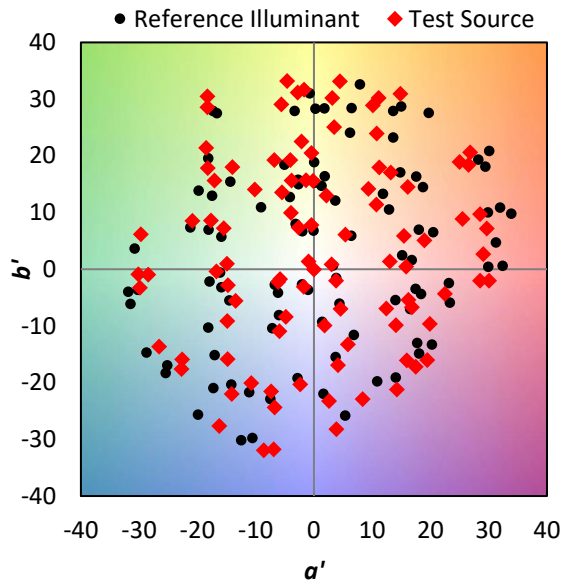
TM-30-18

Summary

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

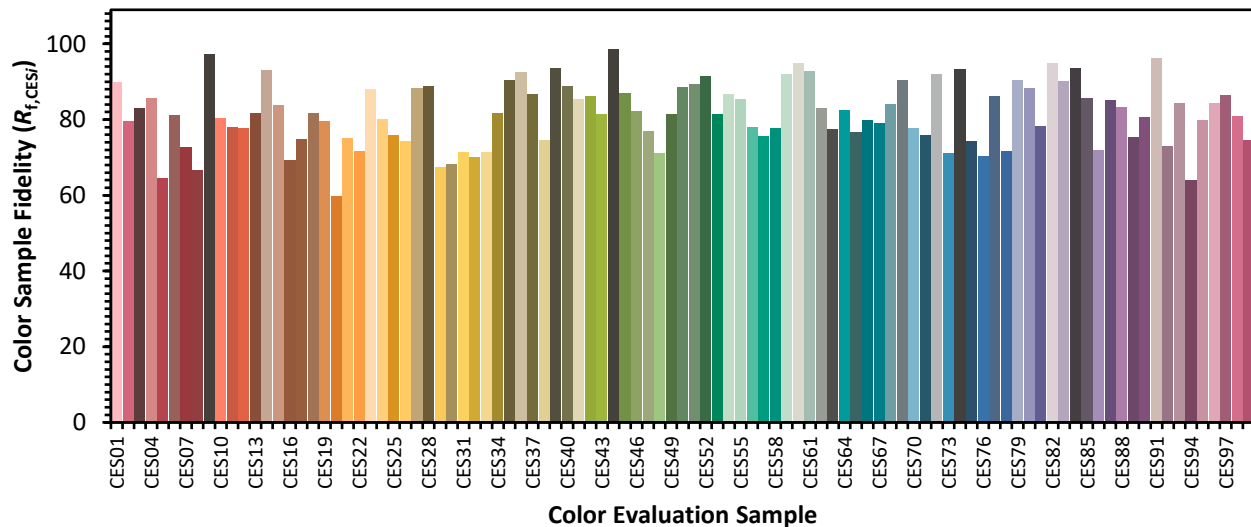


Color Vector Graphics

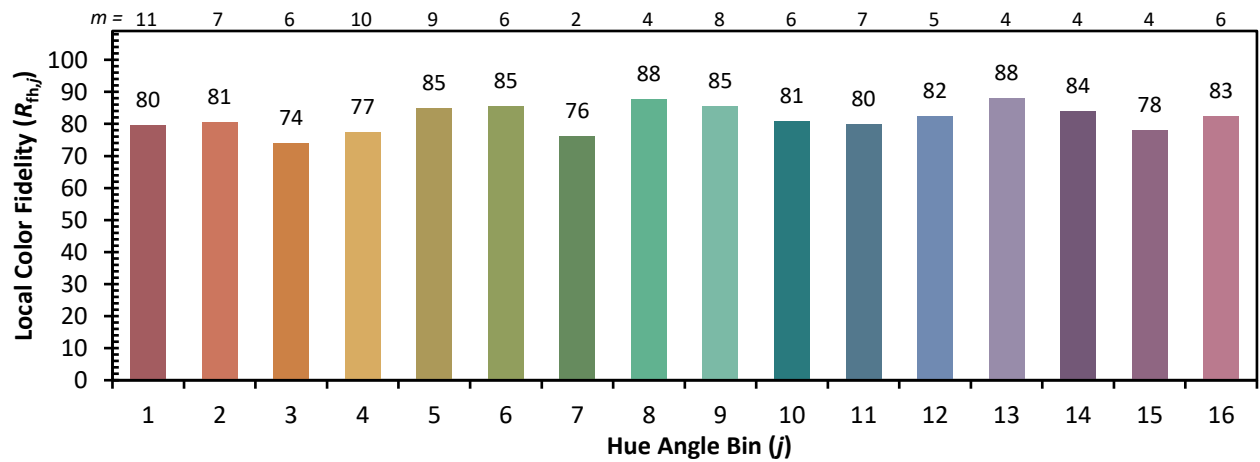
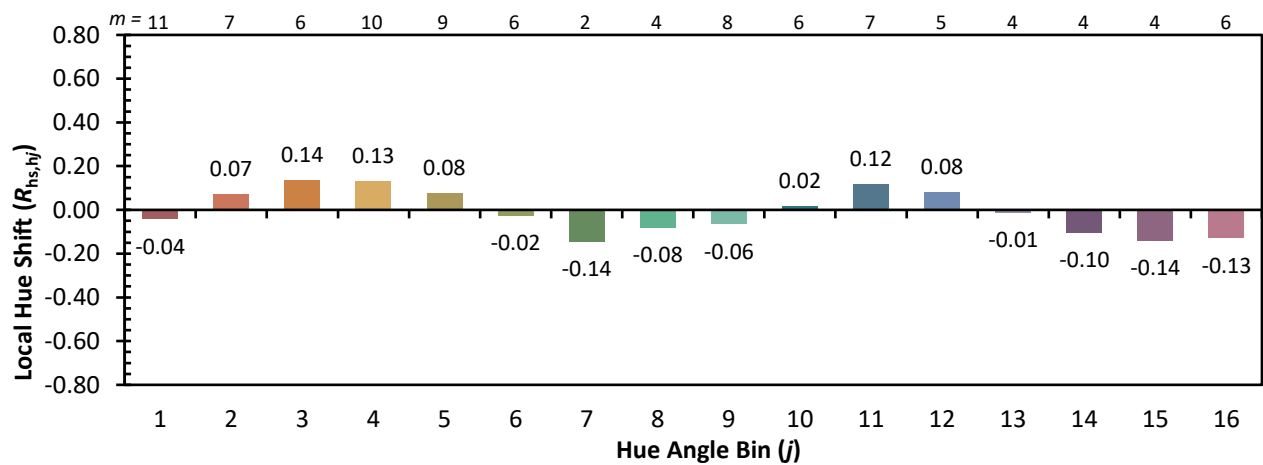
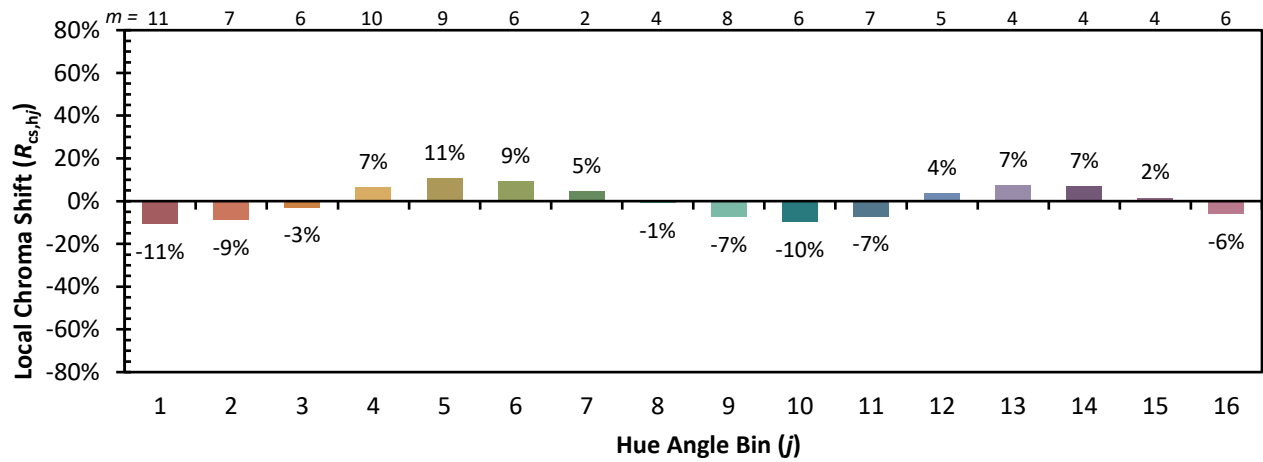


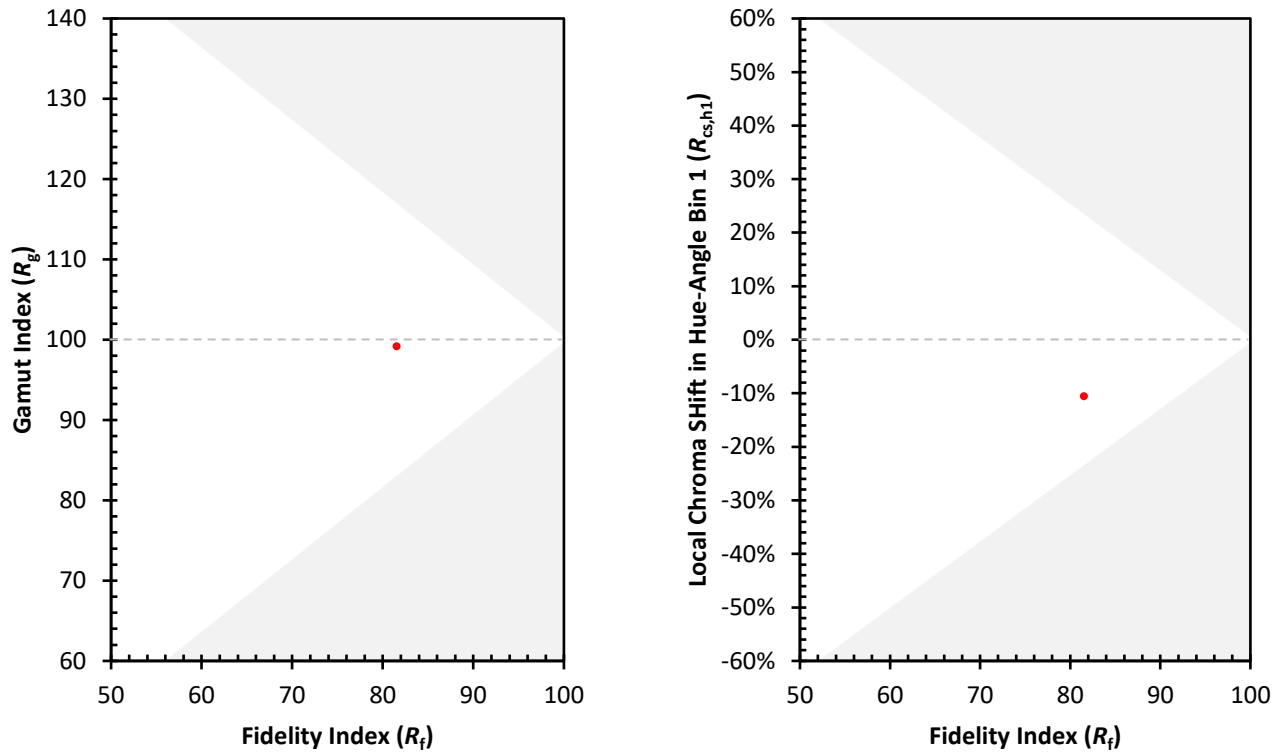
Individual Sample Fidelity Index ($R_{f,i}$)

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)