

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: P319509

Luminaire Tested: **GLEON-SA5A-830-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319509
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5A-830-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18132 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

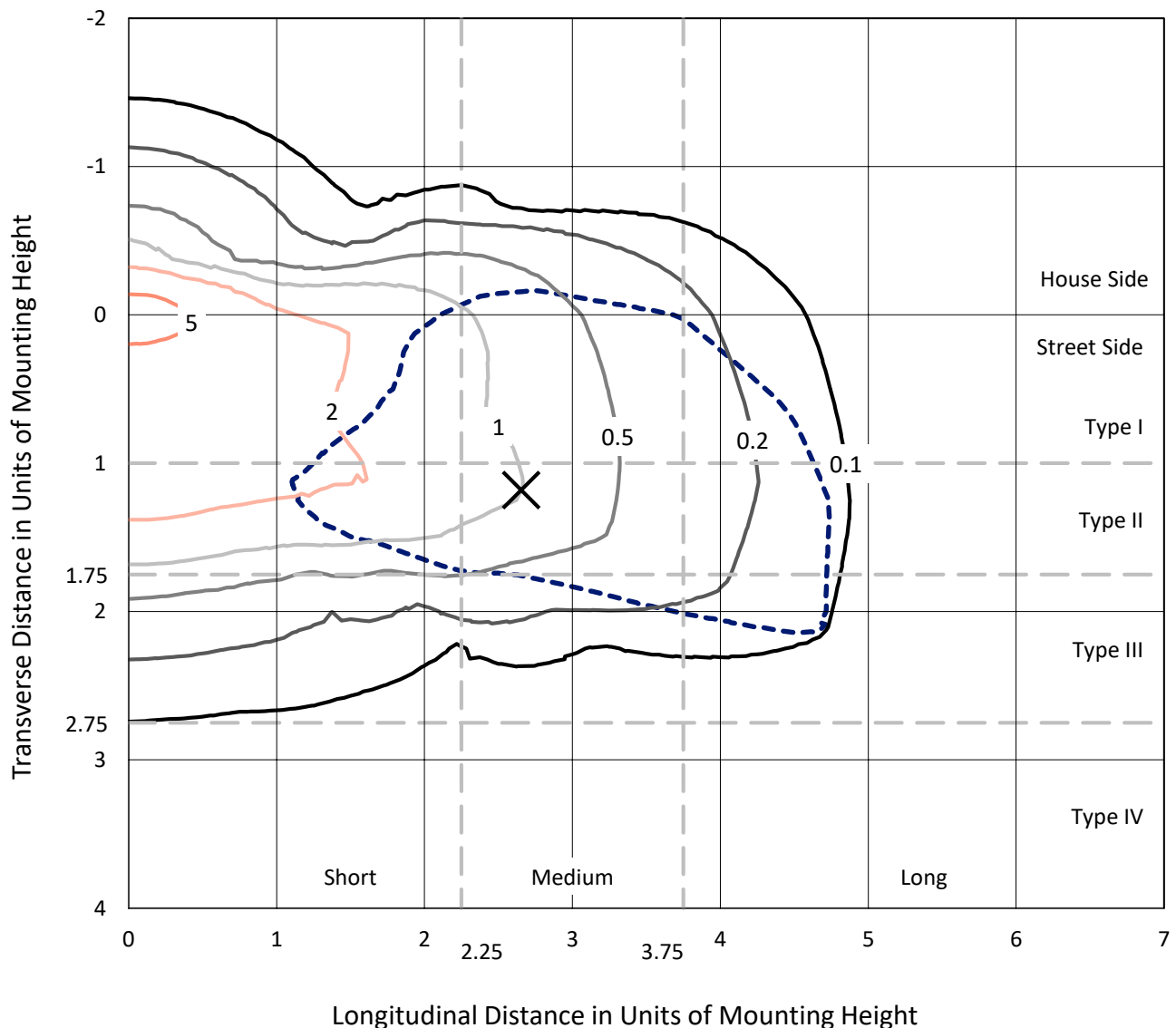
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

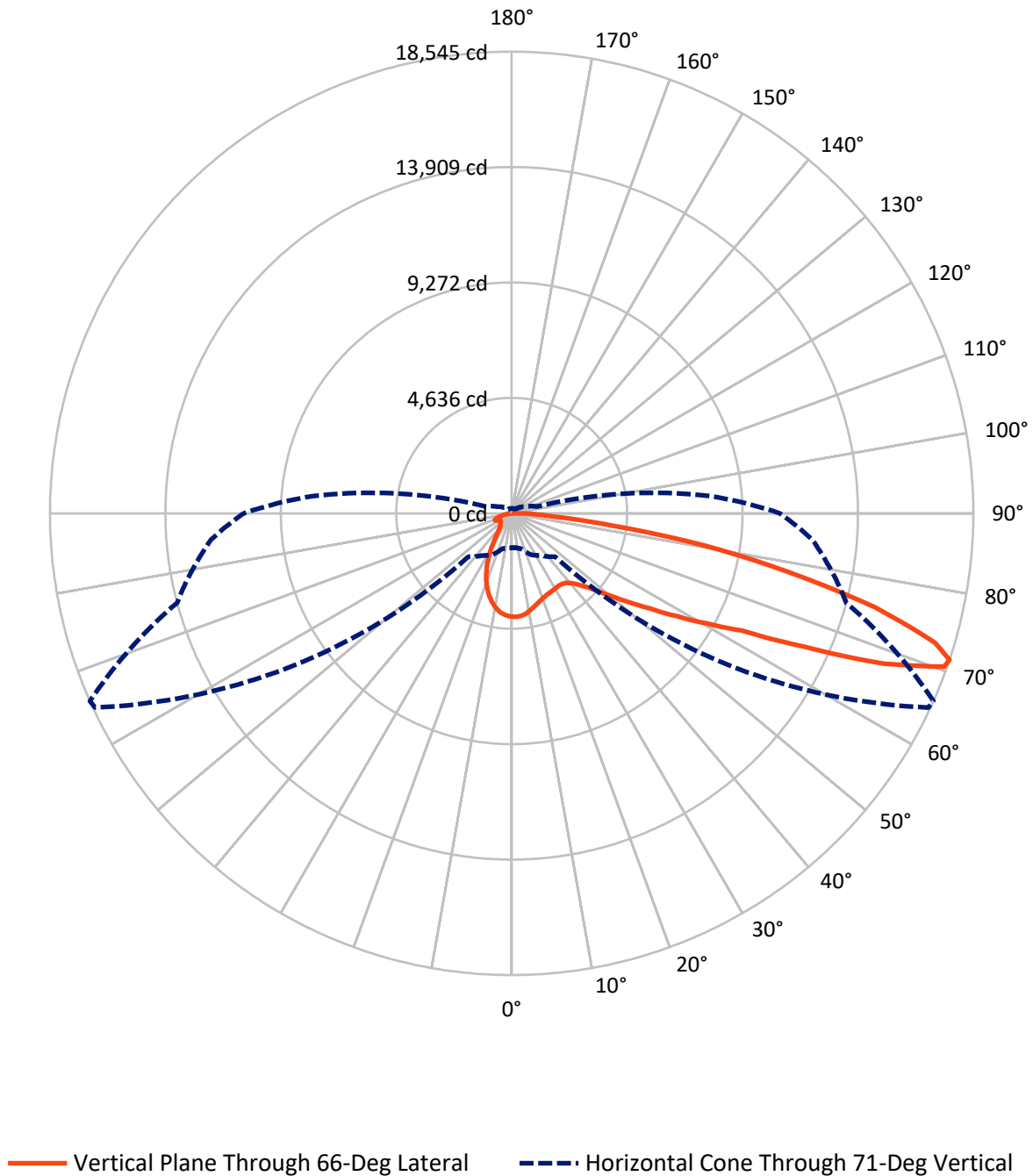
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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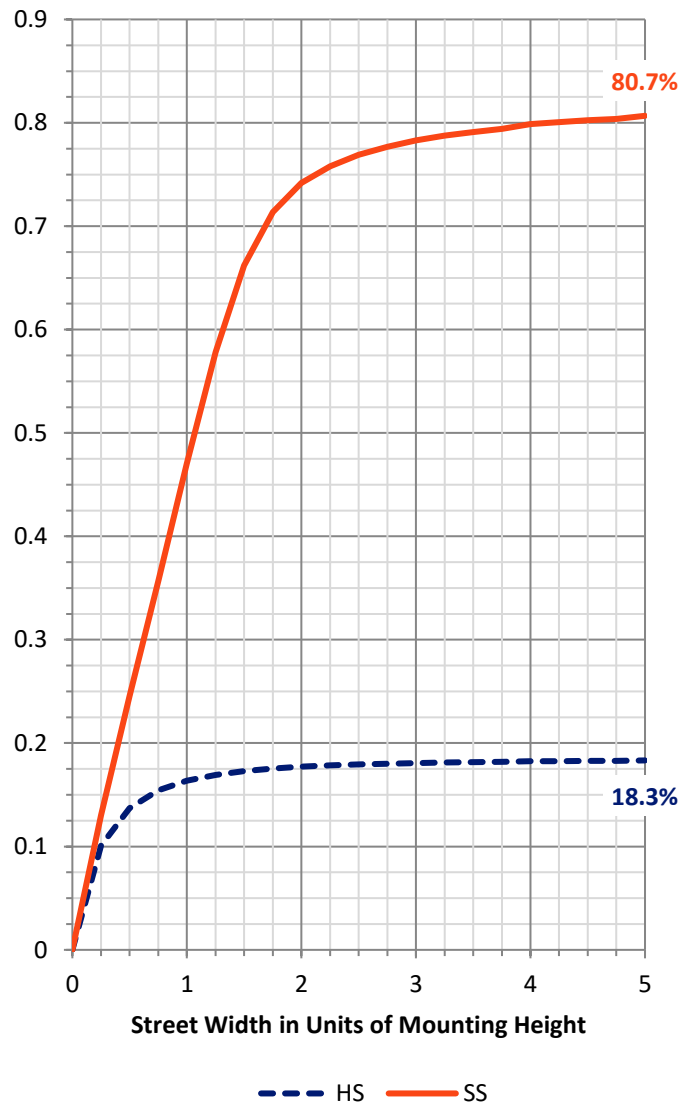
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3360.4	0.0	3360.4
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	14771.6	0.0	14771.6
	% Fixture	81.5	0.0	81.5
Total	Lumens	18132.0	0.0	18132.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.6	2.0
10°-20°	876.9	4.8
20°-30°	1177.9	6.5
30°-40°	1549.5	8.5
40°-50°	2254.2	12.4
50°-60°	3521.3	19.4
60°-70°	4411.0	24.3
70°-80°	3364.6	18.6
80°-90°	611.0	3.4
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°	18132.0	100.0
0°-180°	18132.0	100.0

Coefficient of Utilization



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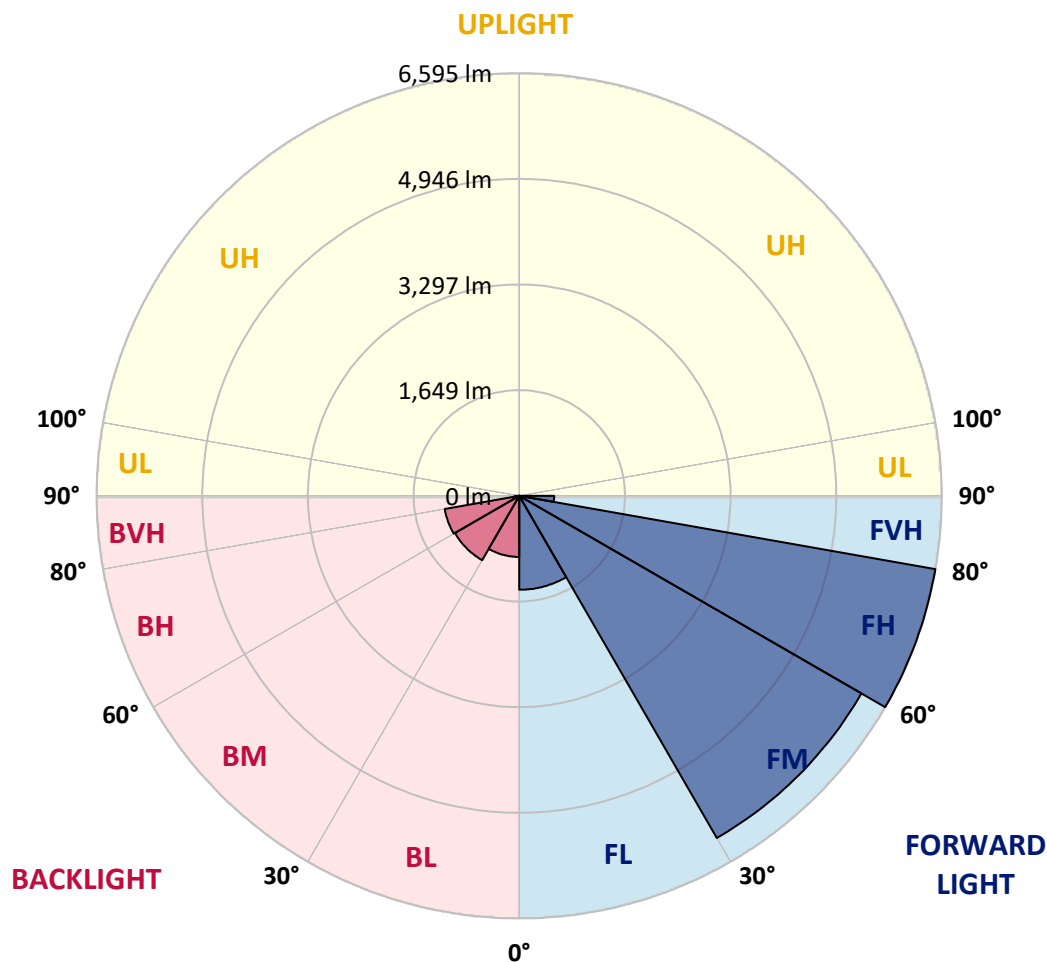
CATALOG NUMBER: GLEON-SA5A-830-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1466.2	8.1			
FM	(30°-60°)	6165.8	34.0			
FH	(60°-80°)	6594.8	36.4			G3/7500
FVH	(80°-90°)	544.8	3.0			G4/750
BL	(0°-30°)	954.3	5.3	B2/1000		
BM	(30°-60°)	1159.2	6.4	B2/2500		
BH	(60°-80°)	1180.8	6.5	B3/2500		G3/2500
BVH	(80°-90°)	66.1	0.4			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°	65°	66°	75°	85°
0°	4153.7	4153.7	4153.7	4153.7	4153.7	4153.7	4153.7	4153.7	4153.7	4153.7	4153.7
2.5°	4076.7	4070.4	4089.2	4108.6	4116.1	4128.6	4147.4	4158.1	4157.4	4159.3	4153.1
5°	3806.2	3798.1	3835.7	3866.3	3925.2	3991.5	4072.3	4129.9	4131.2	4163.7	4172.5
7.5°	3550.2	3544.6	3587.8	3637.2	3705.5	3806.9	3937.7	4061.7	4069.2	4157.4	4188.1
10°	3344.9	3343.6	3385.6	3439.4	3518.9	3632.2	3782.5	3964.0	3975.3	4127.4	4190.6
12.5°	3184.6	3187.1	3223.4	3284.8	3368.7	3487.0	3649.7	3854.4	3872.6	4079.8	4176.2
15°	3066.3	3076.3	3105.7	3167.7	3250.3	3370.5	3537.7	3753.0	3780.6	4026.6	4168.1
17.5°	2998.7	3009.9	3030.6	3081.9	3159.6	3275.4	3433.8	3669.8	3694.8	3985.9	4168.7
20°	2978.6	2988.0	2999.9	3031.2	3097.0	3202.1	3351.7	3594.6	3621.6	3953.4	4175.0
22.5°	3018.1	3025.0	3026.2	3023.7	3063.8	3149.5	3292.3	3539.6	3568.4	3932.1	4179.4
25°	3102.6	3112.0	3105.1	3081.9	3068.8	3121.4	3261.6	3503.2	3532.0	3916.4	4170.6
27.5°	3229.7	3230.9	3225.3	3195.2	3133.3	3124.5	3252.2	3482.0	3509.5	3898.3	4152.4
30°	3402.5	3410.6	3400.6	3359.9	3258.5	3174.6	3263.5	3461.3	3486.3	3875.1	4123.0
32.5°	3604.7	3624.7	3624.1	3581.5	3436.3	3286.6	3309.8	3448.8	3468.2	3850.7	4087.3
35°	3814.4	3841.9	3893.3	3875.1	3695.4	3463.8	3398.7	3468.8	3482.0	3847.6	4062.3
37.5°	4032.2	4059.8	4165.6	4214.4	4004.1	3717.3	3538.9	3539.6	3545.8	3885.8	4060.4
40°	4260.1	4289.5	4448.5	4575.6	4404.1	4038.5	3764.9	3687.3	3680.4	3979.7	4097.3
42.5°	4579.4	4605.7	4796.6	4958.8	4848.0	4449.8	4077.3	3915.2	3900.8	4163.7	4215.7
45°	4983.2	5005.7	5208.5	5382.0	5325.0	4919.3	4469.8	4228.8	4226.3	4470.5	4455.4
47.5°	5463.3	5480.9	5663.0	5830.8	5851.5	5459.6	4963.1	4712.7	4672.0	4891.2	4826.7
50°	5963.5	5982.9	6106.9	6287.2	6440.6	6182.6	5597.9	5305.6	5251.1	5446.4	5352.5
52.5°	6294.7	6320.4	6428.0	6656.5	7102.9	6975.2	6348.5	6024.3	5941.6	6119.4	6047.4
55°	6147.0	6204.6	6369.2	6735.4	7632.5	8185.9	7274.4	6862.5	6769.2	6917.0	6874.4
57.5°	5475.2	5554.1	5778.9	6344.2	7707.0	9252.7	8674.2	7849.8	7784.0	7741.5	7760.9
60°	4247.6	4323.3	4601.9	5338.8	7188.0	10031.5	10780.8	9066.8	8971.6	8569.1	8586.6
62.5°	3006.2	2968.0	3158.9	3697.9	5840.8	10122.9	13177.9	10694.4	10381.4	9443.0	9366.0
65°	2292.5	2283.7	2369.5	2541.0	3537.7	9029.2	14605.8	13430.2	12941.2	10470.9	10289.4
67.5°	1883.7	1868.1	1952.6	2202.4	2278.1	5825.2	14637.1	16604.1	16124.0	11750.5	11357.4
70°	1548.8	1531.3	1610.1	1932.5	2105.3	2954.2	12319.0	18462.8	18437.1	13370.7	12163.7
71°	1388.5	1376.0	1470.5	1828.6	2068.4	2462.2	10636.2	18467.8	18544.8	13919.1	12116.1
72.5°	1130.6	1135.0	1235.2	1627.7	2040.8	2174.2	7817.2	17607.0	17769.8	14441.8	11683.5
75°	751.2	755.0	886.5	1252.1	1978.9	2127.2	4296.4	14774.2	15073.5	14128.8	10661.2
77.5°	504.6	503.3	592.8	858.9	1724.1	2127.2	2519.1	11050.0	11378.7	11242.2	8219.1
80°	347.4	344.9	408.2	592.8	1305.3	2152.9	1947.6	7744.0	7843.5	6071.2	3340.5
82.5°	212.8	214.7	266.7	418.8	888.3	1937.6	1838.6	4222.6	4114.3	1702.8	834.5
85°	122.1	121.4	170.3	283.6	570.3	1635.2	1792.9	1817.4	1667.1	512.7	301.7
87.5°	43.8	47.0	91.4	157.1	326.8	1138.7	1521.2	945.3	852.0	231.6	136.5
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4153.7	4153.7	4153.7	4153.7	4153.7	4153.7	4153.7	4153.7	4153.7	4153.7	4153.7
2.5°	4148.7	4152.4	4148.1	4123.0	4101.7	4067.3	4047.9	4021.0	4012.8	4009.1	4019.1
5°	4164.3	4165.6	4128.6	4062.9	3989.0	3902.0	3839.4	3762.4	3726.1	3710.5	3720.5
7.5°	4178.7	4173.1	4092.3	3966.5	3830.0	3678.5	3543.9	3420.6	3348.6	3319.2	3321.7
10°	4180.6	4156.8	4027.2	3832.5	3620.9	3398.7	3192.1	3001.8	2881.6	2803.3	2827.1
12.5°	4161.2	4121.1	3931.5	3659.1	3365.5	3062.5	2783.3	2497.8	2326.3	2246.8	2249.3
15°	4146.2	4073.6	3813.8	3455.0	3060.6	2659.4	2278.1	1942.6	1759.8	1678.4	1640.2
17.5°	4133.7	4022.2	3677.3	3225.3	2700.7	2191.7	1733.5	1434.2	1334.1	1310.3	1300.3
20°	4116.1	3967.8	3525.2	2959.2	2290.6	1668.4	1265.8	1118.1	1118.7	1146.3	1150.0
22.5°	4091.7	3905.8	3363.0	2660.6	1850.5	1215.1	992.3	949.7	992.9	1045.5	1054.9
25°	4055.4	3832.5	3182.7	2330.7	1411.1	934.0	847.6	845.8	898.3	953.4	961.6
27.5°	4004.1	3736.8	2982.4	1976.4	1039.8	793.8	759.4	772.5	811.3	851.4	854.5
30°	3935.2	3625.3	2761.4	1602.6	815.1	706.8	703.0	714.9	738.7	766.9	769.4
32.5°	3859.5	3512.0	2525.4	1240.8	698.0	659.8	663.6	669.2	680.5	691.8	694.3
35°	3790.6	3396.2	2283.7	942.8	642.3	629.2	626.7	625.4	626.7	622.9	623.5
37.5°	3746.1	3300.4	2032.1	750.6	610.4	602.2	594.7	585.3	574.7	568.4	569.7
40°	3729.9	3229.0	1777.3	648.6	584.1	578.4	564.1	544.0	531.5	527.7	527.7
42.5°	3773.7	3192.1	1531.3	597.2	562.2	552.8	529.0	505.8	496.4	495.8	495.2
45°	3907.7	3207.1	1297.1	569.1	542.1	524.0	492.7	473.3	467.0	468.3	467.6
47.5°	4148.1	3301.7	1096.8	550.3	522.1	498.3	463.3	447.6	440.1	440.1	440.7
50°	4556.9	3522.7	937.2	534.6	505.2	474.5	442.0	422.6	412.6	411.9	411.9
52.5°	5152.2	3918.3	837.6	521.5	486.4	453.2	420.7	396.3	384.4	381.9	380.6
55°	5898.4	4485.5	810.1	512.7	461.4	430.1	395.0	370.6	357.5	351.8	351.2
57.5°	6732.9	5175.4	864.5	502.1	435.7	402.5	366.9	343.7	329.9	323.0	322.4
60°	7577.4	5928.5	1086.8	487.0	414.4	372.5	338.1	316.8	303.0	295.5	294.2
62.5°	8423.2	6722.3	1540.7	485.8	399.4	343.7	308.6	290.5	277.3	269.2	267.3
65°	9377.3	7591.2	2056.5	519.0	394.4	317.4	278.6	264.2	252.9	245.4	244.8
67.5°	10472.8	8572.2	2007.0	587.2	411.3	293.6	250.4	239.1	231.0	224.7	224.1
70°	10986.8	8418.8	1247.7	635.4	435.1	270.4	223.5	215.4	209.1	204.7	202.8
71°	10771.4	7993.7	1046.1	629.8	432.6	260.4	212.8	206.6	200.3	196.6	194.7
72.5°	10184.2	7290.1	872.7	586.0	404.4	242.3	199.1	192.8	187.2	182.8	181.5
75°	9138.7	6510.7	698.6	468.3	322.4	204.7	174.7	167.8	163.4	160.9	158.4
77.5°	6717.9	4646.4	540.3	370.0	237.3	167.1	149.0	144.0	139.6	135.8	134.0
80°	2573.6	1799.8	363.7	276.1	174.0	132.1	120.2	117.7	113.3	110.8	110.8
82.5°	693.0	537.8	194.1	167.1	116.4	96.4	92.0	90.8	87.0	82.0	82.6
85°	280.5	237.3	108.9	92.0	71.4	57.0	62.0	62.6	58.2	52.0	52.6
87.5°	123.3	100.8	60.7	40.7	31.3	21.9	28.2	28.2	25.7	21.3	19.4
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
 Rf: 81.5
 Rg: 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

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



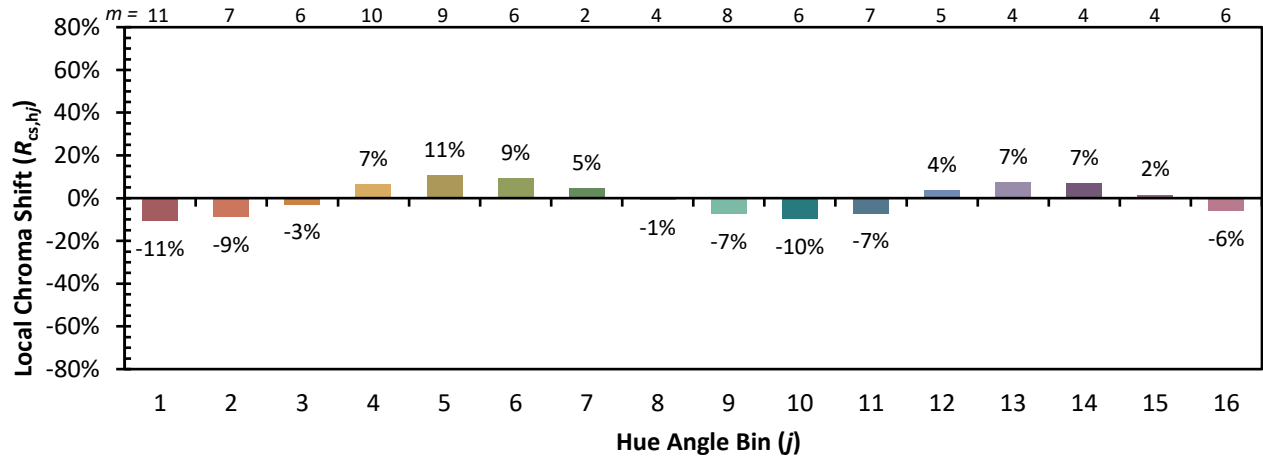
Color Vector Graphics

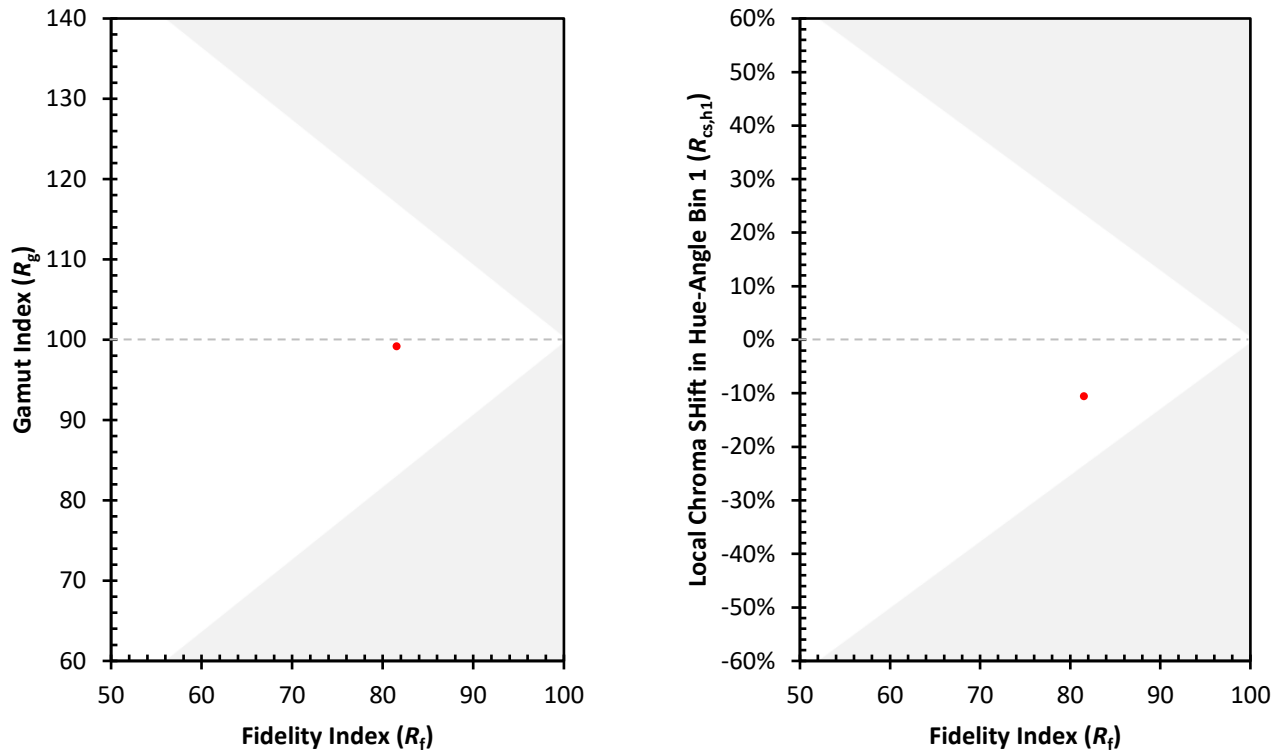


Individual Sample Fidelity Index ($R_{f,i}$)

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)