

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: P637475

Luminaire Tested: GWS-SA4C-830-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637475
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-830-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15702.8 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 128.5
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



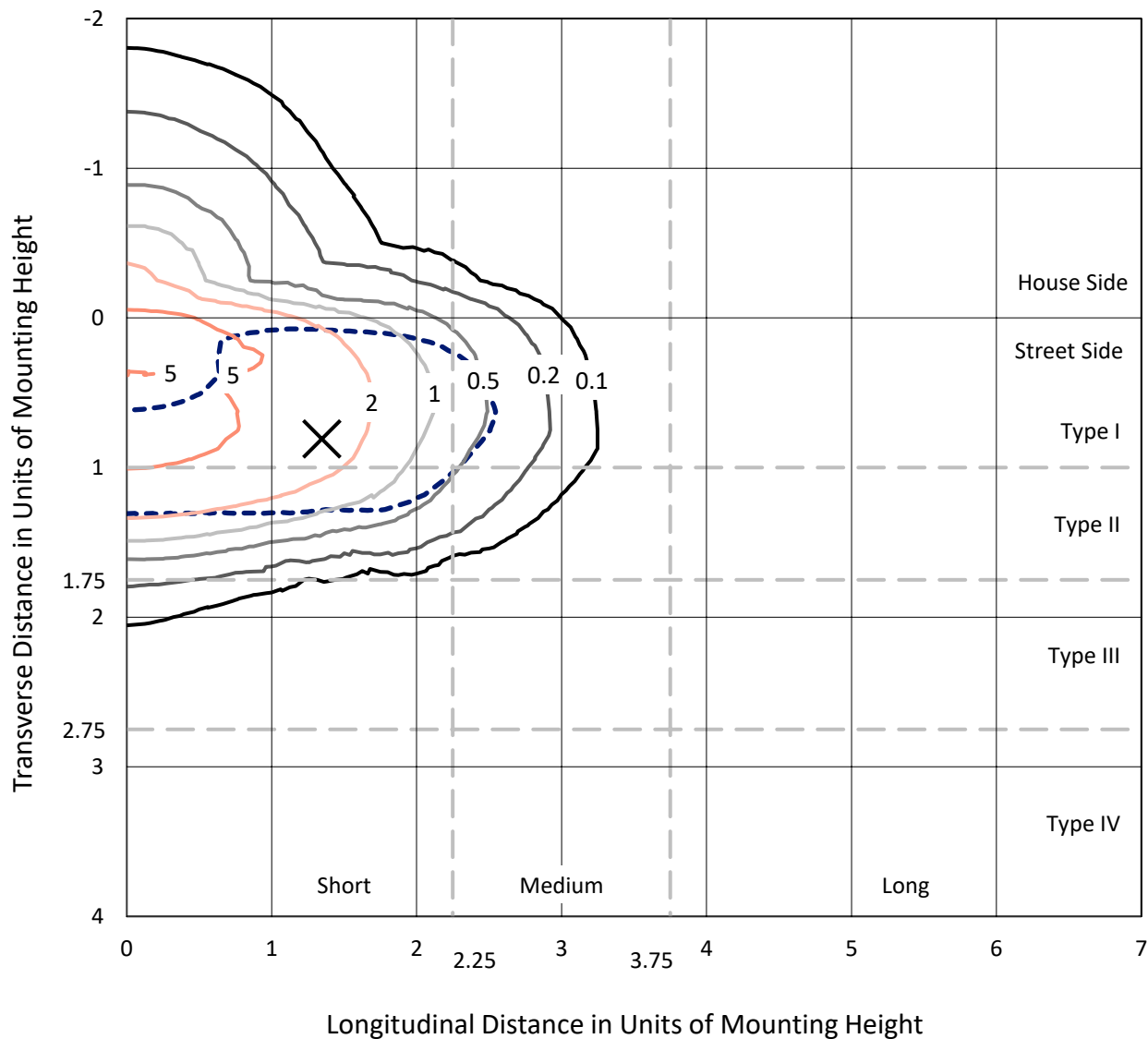
REPORT NUMBER: P637475

CATALOG NUMBER: GWS-SA4C-830-U-AFL-W

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

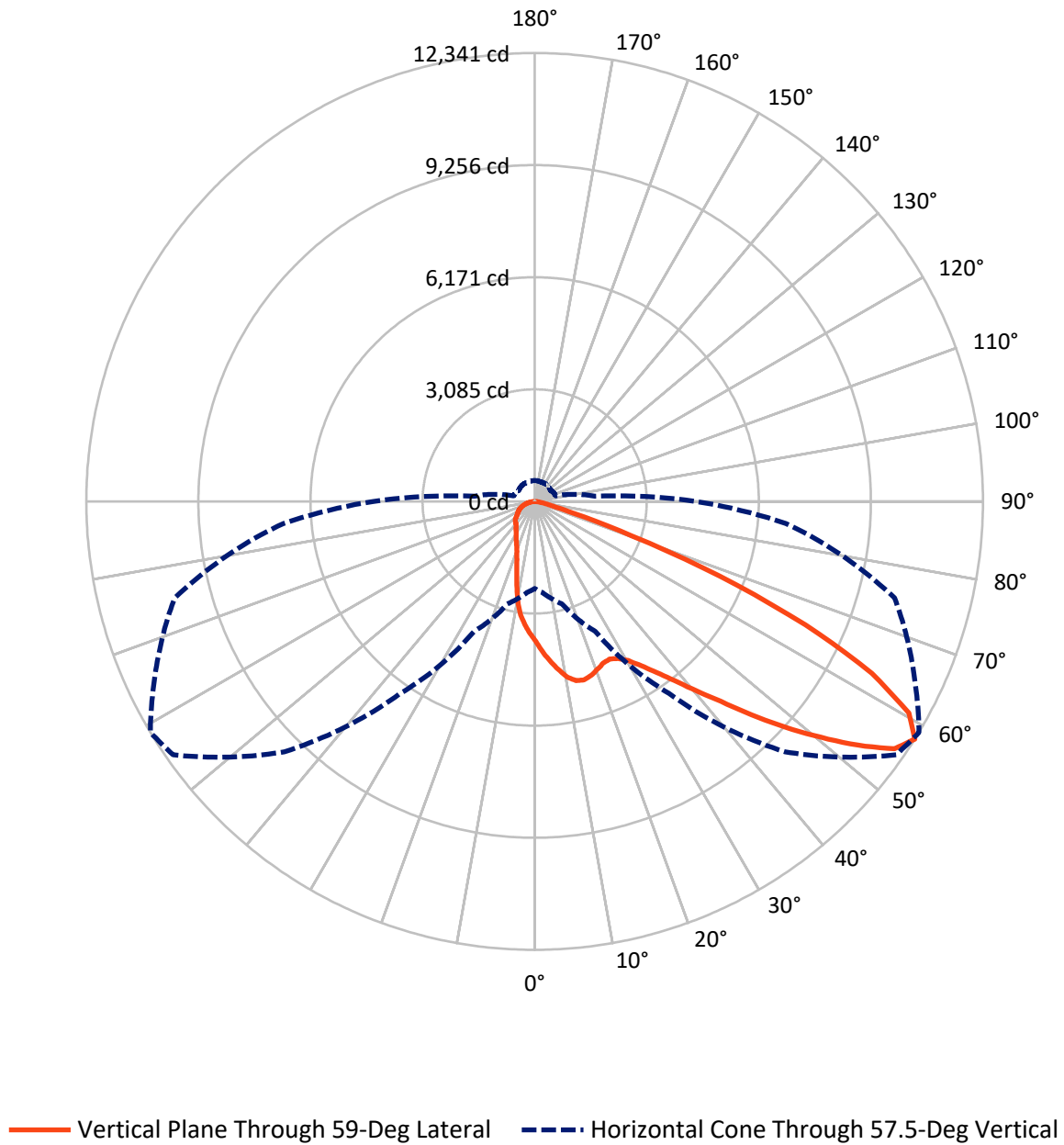


Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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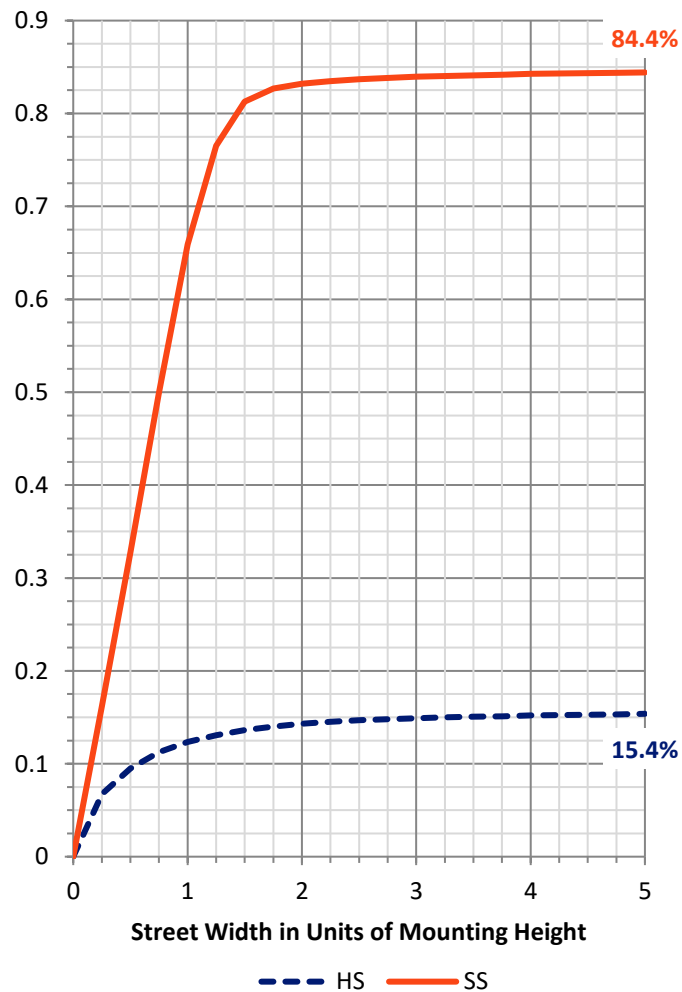
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2437.0	0.0	2437.0
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	13265.8	0.0	13265.8
	% Fixture	84.5	0.0	84.5
Total	Lumens	15702.8	0.0	15702.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.9	2.3
10°-20°	907.0	5.8
20°-30°	1470.2	9.4
30°-40°	2365.0	15.1
40°-50°	3672.6	23.4
50°-60°	3955.9	25.2
60°-70°	2295.9	14.6
70°-80°	599.4	3.8
80°-90°	79.0	0.5
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°	15702.8	100.0
0°-180°	15702.8	100.0

Coefficient of Utilization



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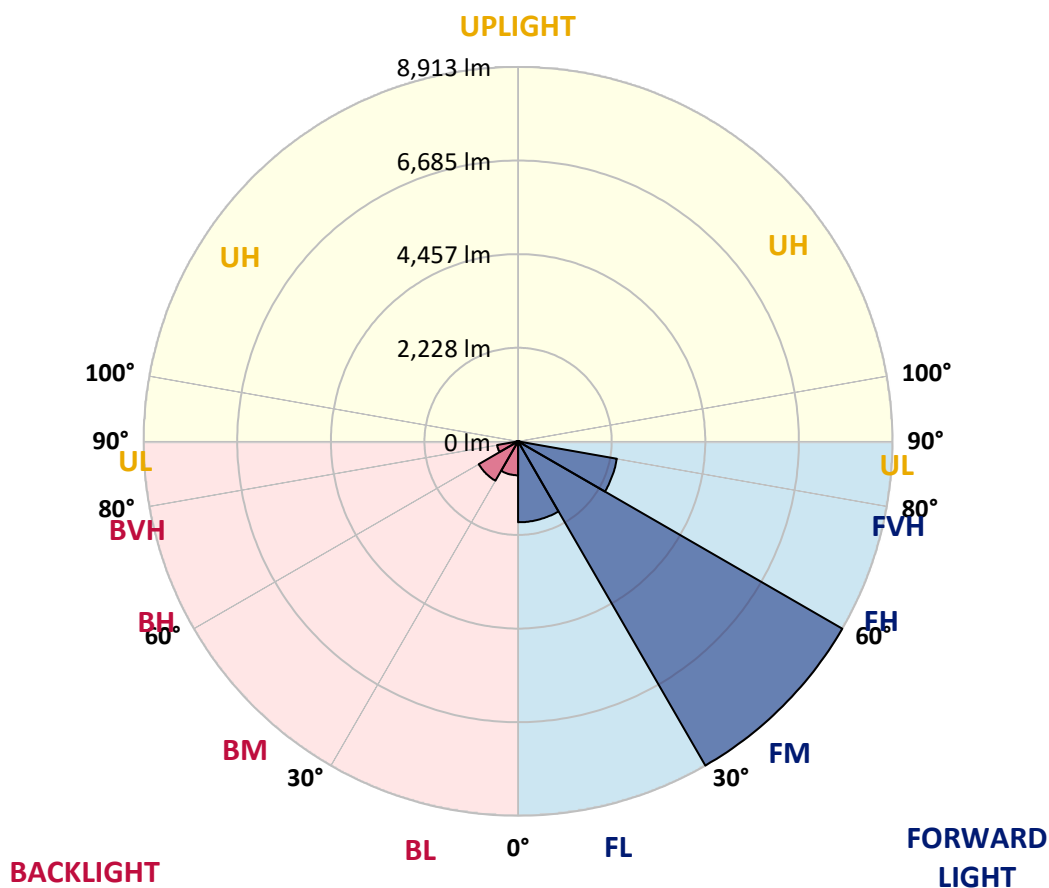
CATALOG NUMBER: GWS-SA4C-830-U-AFL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1926.6	12.3			
FM	(30°-60°)	8913.1	56.8			
FH	(60°-80°)	2388.3	15.2			G2/5000
FVH	(80°-90°)	37.8	0.2			G1/100
BL	(0°-30°)	808.5	5.1	B2/1000		
BM	(30°-60°)	1080.5	6.9	B2/2500		
BH	(60°-80°)	506.9	3.2	B2/1000		G2/1000
BVH	(80°-90°)	41.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CATALOG NUMBER: GWS-SA4C-830-U-AFL-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3854.7	3854.7	3854.7	3854.7	3854.7	3854.7	3854.7	3854.7	3854.7	3854.7	3854.7
2.5°	4372.1	4335.6	4361.0	4315.7	4296.9	4247.2	4183.0	4139.9	4073.6	3987.4	3912.2
5°	4806.5	4781.1	4786.6	4738.0	4694.9	4612.0	4480.4	4407.5	4294.7	4121.1	3959.7
7.5°	4793.3	4823.1	4839.7	4881.7	4893.9	4886.1	4767.8	4666.1	4542.3	4281.4	4038.2
10°	4296.9	4353.3	4404.1	4547.8	4722.5	4943.6	4971.2	4910.4	4785.5	4485.9	4132.2
12.5°	3756.3	3799.5	3844.8	4017.2	4284.7	4726.9	5026.5	5064.1	5014.3	4688.2	4238.3
15°	3491.0	3510.9	3554.0	3667.9	3881.3	4372.1	4930.3	5095.0	5184.6	4902.7	4357.7
17.5°	3480.0	3488.8	3509.8	3570.6	3718.8	4097.9	4756.8	5033.1	5318.3	5129.3	4497.0
20°	3708.8	3685.6	3672.3	3671.2	3744.2	4006.2	4588.7	4933.6	5381.4	5361.5	4646.2
22.5°	4026.1	4033.8	4005.1	3934.3	3925.5	4071.4	4504.7	4833.1	5400.2	5567.1	4784.4
25°	4476.0	4514.7	4429.6	4294.7	4228.4	4260.4	4556.7	4802.1	5397.9	5738.4	4870.6
27.5°	5001.1	5030.9	4944.7	4767.8	4630.8	4553.4	4711.5	4893.9	5416.7	5886.6	4922.6
30°	5599.1	5609.1	5490.8	5305.1	5105.0	4939.2	4969.0	5082.9	5512.9	6081.1	4983.4
32.5°	6329.8	6371.8	6192.8	5898.7	5619.0	5406.8	5315.0	5388.0	5720.7	6311.0	5077.4
35°	7257.3	7271.7	7044.0	6622.8	6227.0	5933.0	5740.6	5779.3	6036.9	6632.7	5218.9
37.5°	8131.7	8146.1	7904.0	7512.7	6946.7	6544.3	6265.7	6248.0	6441.5	7087.1	5449.9
40°	8686.7	8727.6	8619.2	8373.8	7833.3	7290.5	6912.4	6851.6	6972.1	7643.1	5771.6
42.5°	8985.1	9002.8	9000.6	9032.7	8711.0	8171.5	7642.0	7520.4	7601.1	8243.4	6096.6
45°	8987.4	9031.6	9149.9	9458.3	9472.6	9136.6	8564.0	8373.8	8299.8	8848.1	6436.0
47.5°	8585.0	8632.5	8957.5	9564.4	10012.1	10088.4	9668.3	9286.9	8975.2	9368.7	6714.5
50°	7366.8	7486.1	8105.2	9178.6	10118.2	10851.2	10721.8	10204.5	9575.5	9771.1	6889.2
52.5°	6308.8	6304.4	6685.8	8088.6	9674.9	11187.2	11741.0	11148.5	10169.1	10026.5	6933.4
55°	4619.7	4645.1	5035.3	6186.1	8492.1	10862.2	12301.5	12017.4	10850.0	10162.5	6915.7
57.5°	2395.5	2521.5	2921.7	3947.6	6452.5	9743.5	12152.3	12341.3	11542.1	10258.6	6938.9
60°	1210.5	1186.2	1329.9	1884.8	3738.7	7610.0	11232.5	11835.0	11667.0	10333.8	6953.3
62.5°	808.1	801.5	761.7	873.3	1527.7	4506.9	9575.5	10420.0	10799.2	10156.9	6769.8
65°	699.8	686.5	613.5	609.1	741.8	1869.3	7018.5	8191.4	8925.4	9370.9	6330.9
67.5°	630.1	610.2	536.1	499.7	532.8	821.4	3955.3	5494.1	6590.7	7925.0	5369.2
70°	562.7	552.7	478.7	425.6	422.3	500.8	1457.0	2835.5	4032.7	5406.8	3925.5
72.5°	504.1	486.4	423.4	372.5	347.1	354.9	632.3	1092.2	2087.1	3372.7	2348.0
75°	436.7	423.4	368.1	317.3	286.3	259.8	385.8	505.2	951.8	1602.9	1108.8
77.5°	337.2	328.3	290.7	252.0	234.4	193.5	234.4	318.4	440.0	675.4	577.0
80°	195.7	201.2	216.7	196.8	172.5	138.2	152.6	183.5	264.2	365.9	327.2
82.5°	98.4	105.0	140.4	113.9	102.8	80.7	90.6	108.3	138.2	202.3	128.2
85°	7.7	7.7	25.4	28.7	35.4	28.7	36.5	44.2	63.0	80.7	43.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.3	5.5	9.9	18.8	12.2
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: GWS-SA4C-830-U-AFL-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3854.7	3854.7	3854.7	3854.7	3854.7	3854.7	3854.7	3854.7	3854.7	3854.7	3854.7
2.5°	3861.4	3805.0	3737.5	3682.3	3597.2	3551.8	3494.3	3423.6	3394.9	3381.6	3373.9
5°	3869.1	3769.6	3625.9	3493.2	3346.2	3230.1	3100.8	2965.9	2888.6	2869.8	2856.5
7.5°	3897.8	3758.5	3529.7	3310.8	3037.8	2784.6	2538.1	2293.8	2168.9	2121.4	2116.9
10°	3937.6	3754.1	3432.4	3068.7	2607.8	2207.6	1919.1	1727.8	1647.1	1620.6	1611.8
12.5°	3987.4	3750.8	3304.2	2732.7	2111.4	1733.4	1568.6	1537.7	1548.7	1546.5	1546.5
15°	4050.4	3755.2	3149.4	2352.4	1707.9	1504.5	1507.8	1544.3	1578.6	1584.1	1584.1
17.5°	4118.9	3750.8	2925.0	1971.0	1465.8	1450.4	1501.2	1552.1	1583.0	1587.4	1587.4
20°	4193.0	3729.8	2642.0	1611.8	1359.7	1416.1	1471.4	1511.2	1530.0	1534.4	1534.4
22.5°	4237.2	3670.1	2334.7	1364.1	1292.3	1361.9	1398.4	1439.3	1441.5	1406.1	1405.0
25°	4230.6	3558.5	1984.3	1204.9	1220.4	1281.2	1327.7	1298.9	1263.5	1243.6	1240.3
27.5°	4188.6	3390.4	1627.2	1084.5	1135.3	1203.8	1189.5	1165.2	1156.3	1134.2	1132.0
30°	4135.5	3183.7	1306.6	990.5	1046.9	1109.9	1087.8	1085.6	1076.7	1052.4	1052.4
32.5°	4084.7	2970.4	1064.6	920.8	990.5	994.9	1025.9	1028.1	1023.7	981.6	977.2
35°	4070.3	2757.0	900.9	865.6	935.2	933.0	977.2	976.1	899.8	841.3	840.1
37.5°	4113.4	2540.3	803.7	820.2	858.9	887.7	923.1	858.9	833.5	798.1	795.9
40°	4205.2	2340.2	753.9	793.7	810.3	852.3	797.0	801.5	794.8	768.3	765.0
42.5°	4326.8	2170.0	726.3	784.9	782.7	793.7	732.9	750.6	760.6	740.7	737.3
45°	4443.9	2021.9	711.9	751.7	762.8	698.6	686.5	703.1	718.5	710.8	707.5
47.5°	4530.2	1893.6	704.2	706.4	737.3	666.6	646.7	654.4	673.2	676.5	675.4
50°	4556.7	1784.2	695.3	668.8	662.2	634.5	619.1	616.8	639.0	654.4	656.6
52.5°	4505.8	1686.9	672.1	635.6	603.6	608.0	602.5	591.4	613.5	634.5	636.7
55°	4430.7	1631.7	635.6	603.6	566.0	583.7	585.9	575.9	590.3	604.7	604.7
57.5°	4436.2	1663.7	600.3	573.7	532.8	556.0	568.2	563.8	563.8	574.8	575.9
60°	4472.7	1710.1	577.0	536.1	499.7	524.0	551.6	547.2	537.3	551.6	551.6
62.5°	4367.7	1648.2	561.6	499.7	464.3	493.0	526.2	524.0	512.9	536.1	538.4
65°	4058.1	1482.4	543.9	454.3	428.9	462.1	490.8	498.6	488.6	519.6	525.1
67.5°	3401.5	1247.0	509.6	411.2	393.5	424.5	452.1	463.2	455.4	491.9	496.3
70°	2535.9	1009.3	455.4	363.7	350.4	378.1	403.5	407.9	409.0	452.1	456.6
72.5°	1617.3	784.9	383.6	310.6	300.7	321.7	340.5	358.2	365.9	406.8	405.7
75°	902.1	583.7	308.4	263.1	245.4	262.0	284.1	305.1	327.2	386.9	393.5
77.5°	519.6	410.1	244.3	211.1	190.1	207.8	226.6	256.5	322.8	374.7	368.1
80°	292.9	266.4	184.6	154.8	141.5	154.8	169.1	225.5	254.3	276.4	279.7
82.5°	137.1	149.2	126.0	95.1	95.1	103.9	117.2	174.7	192.3	157.0	137.1
85°	49.7	67.4	61.9	48.6	43.1	42.0	73.0	99.5	61.9	55.3	47.5
87.5°	13.3	18.8	17.7	12.2	6.6	5.5	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

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



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)