

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: P954704

Luminaire Tested: **GALN-SB7D-850-U-RW**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954704  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7D-850-U-RW  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

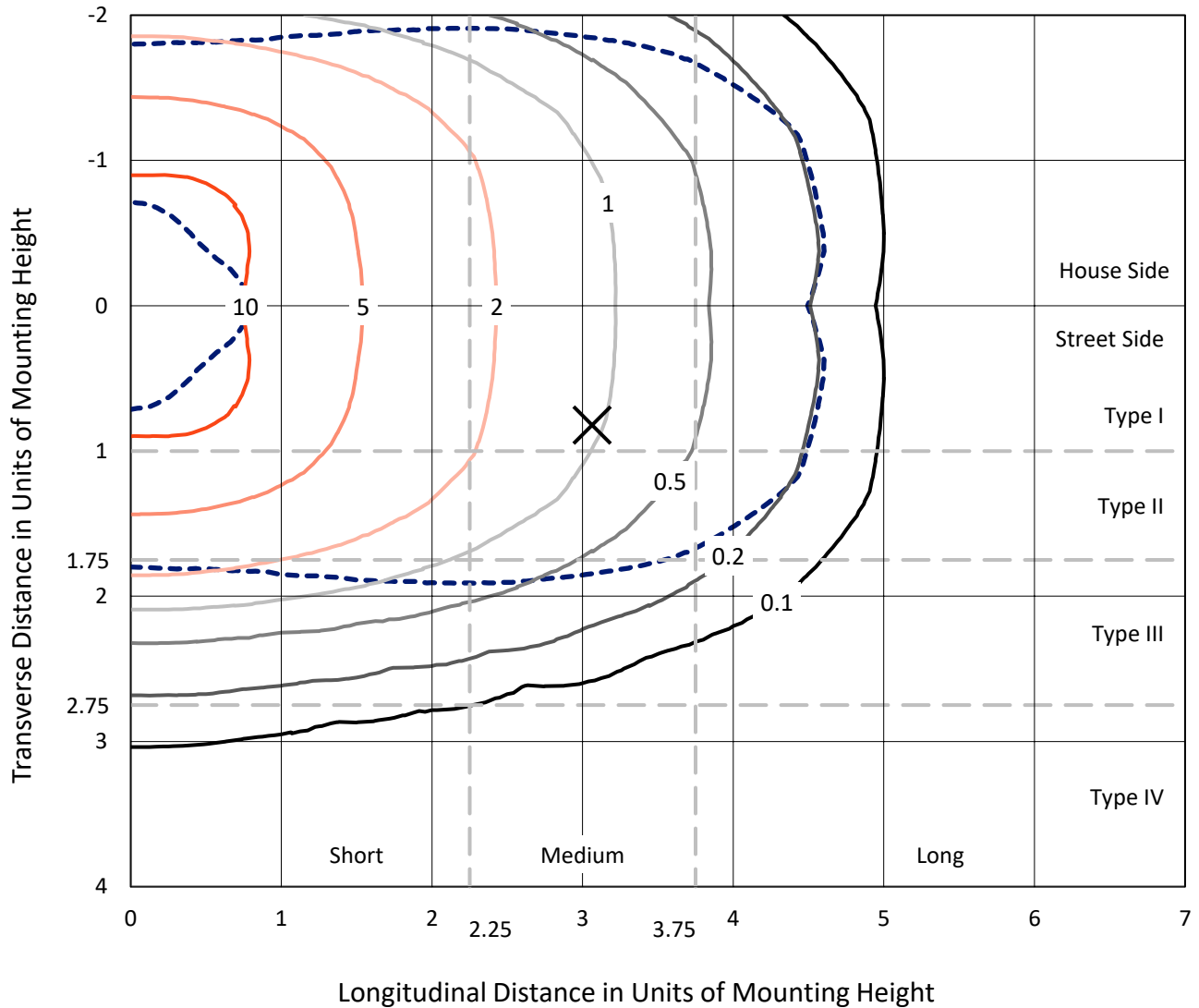
Lumens per Lamp: N/A  
Luminaire Lumens: 71282 lumens  
Efficiency: N/A  
Efficacy: 139.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): 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

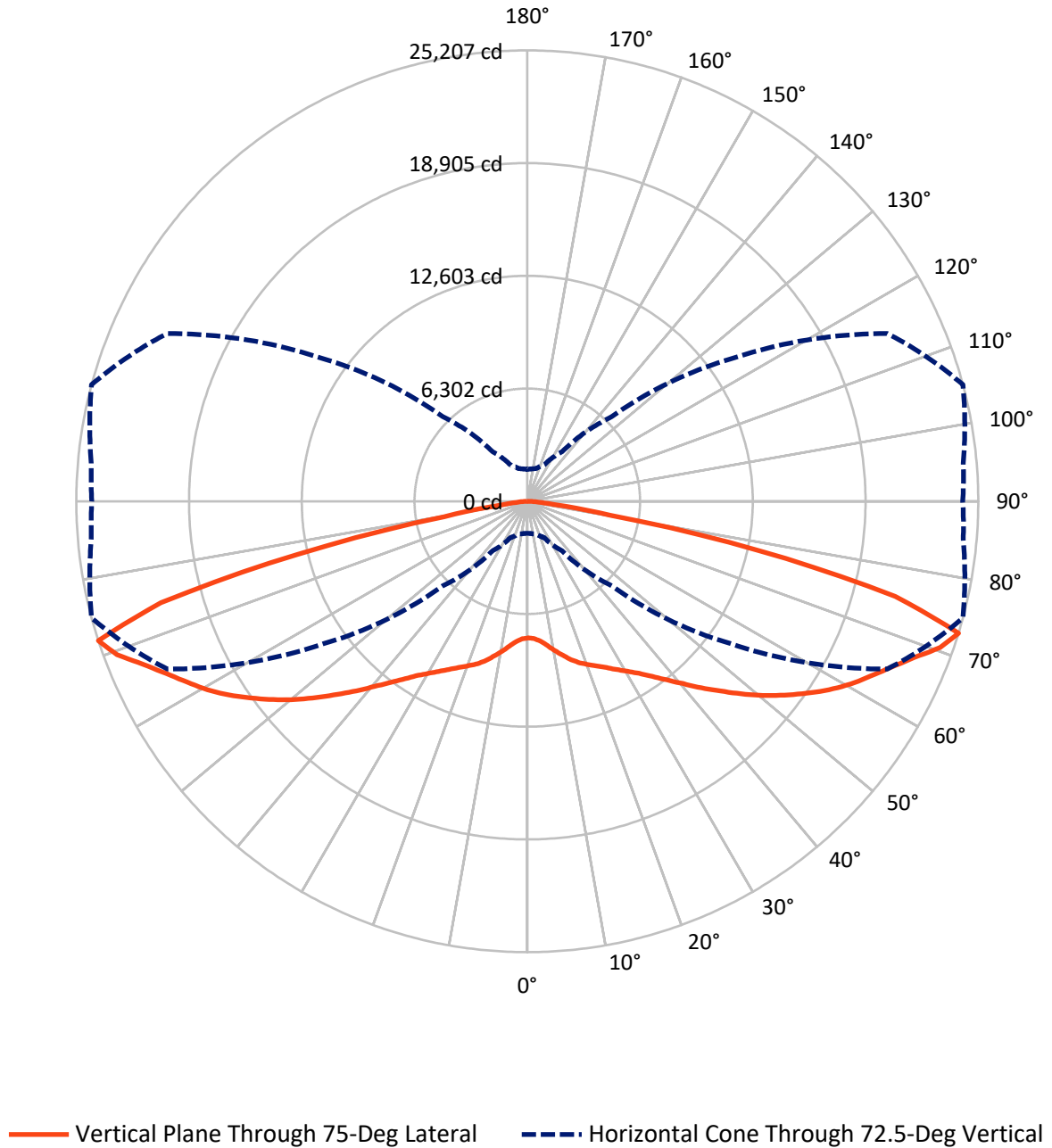
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	35641.0	0.0	35641.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	35641.0	0.0	35641.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	71282.0	0.0	71282.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	748.0	1.0
10°-20°	2467.0	3.5
20°-30°	4766.9	6.7
30°-40°	8049.2	11.3
40°-50°	12765.1	17.9
50°-60°	17091.0	24.0
60°-70°	16265.1	22.8
70°-80°	8487.4	11.9
80°-90°	642.4	0.9
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°	71282.0	100.0
0°-180°	71282.0	100.0

**Coefficient of Utilization**



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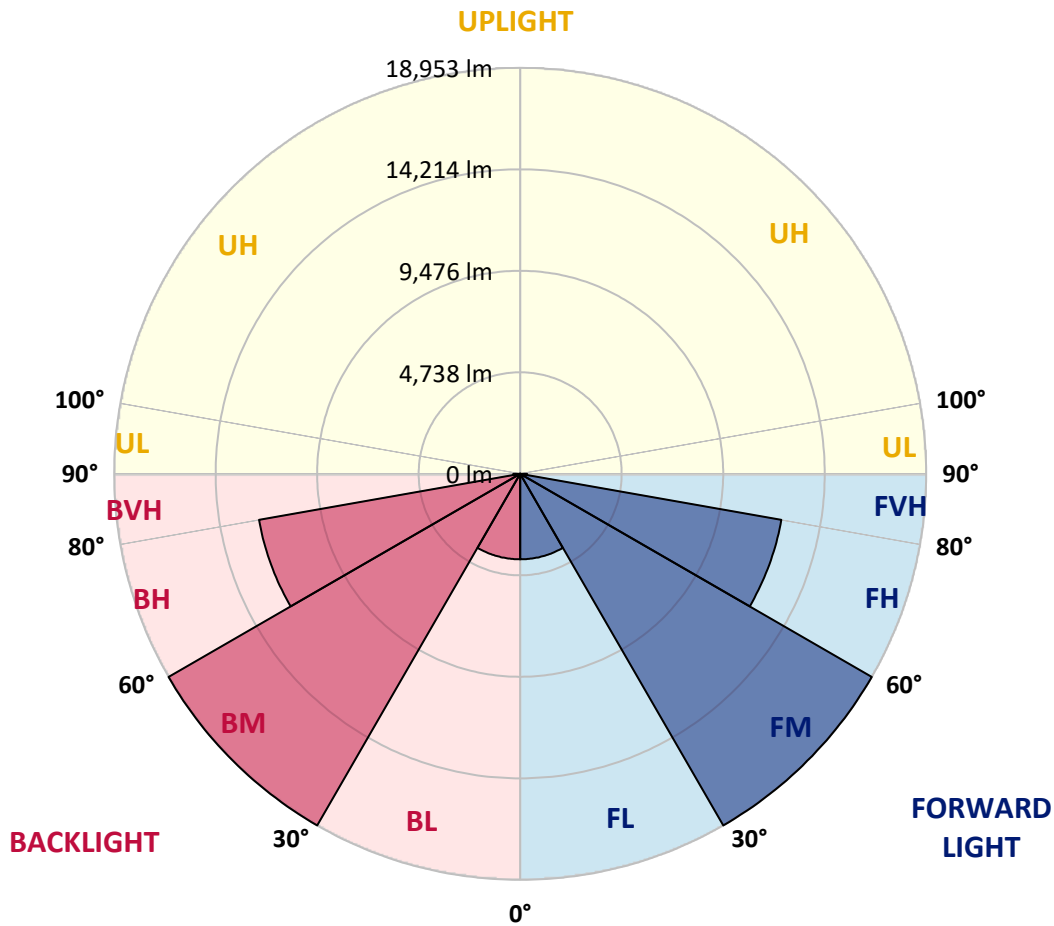
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3990.9	5.6			
FM (30°-60°)	18952.6	26.6			
FH (60°-80°)	12376.3	17.4			G5
FVH (80°-90°)	321.2	0.5			G3/500
BL (0°-30°)	3990.9	5.6	B4/5000		
BM (30°-60°)	18952.6	26.6	B5		
BH (60°-80°)	12376.3	17.4	B5		G5
BVH (80°-90°)	321.2	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7635.6	7635.6	7635.6	7635.6	7635.6	7635.6	7635.6	7635.6	7635.6	7635.6
2.5°	7635.6	7628.3	7635.6	7642.9	7639.2	7639.2	7657.4	7668.3	7690.2	7686.5
5°	7584.6	7581.0	7610.1	7642.9	7668.3	7712.0	7766.6	7806.6	7857.6	7868.5
7.5°	7559.1	7548.2	7599.2	7657.4	7737.5	7846.7	7952.2	8061.4	8148.7	8177.9
10°	7577.3	7581.0	7650.1	7759.3	7886.7	8039.6	8188.8	8374.4	8498.1	8527.2
12.5°	7661.1	7653.8	7770.2	7944.9	8119.6	8312.5	8487.2	8691.0	8825.7	8894.8
15°	7813.9	7799.4	7963.1	8221.5	8476.3	8701.9	8843.9	9036.8	9193.3	9280.6
17.5°	7995.9	8003.2	8217.9	8552.7	8887.6	9142.3	9277.0	9375.2	9495.3	9571.8
20°	8316.2	8330.7	8570.9	8967.6	9349.8	9640.9	9750.1	9713.7	9746.5	9804.7
22.5°	8745.6	8752.9	9022.2	9451.7	9852.0	10172.3	10245.1	10095.9	10004.9	10044.9
25°	9244.2	9291.5	9560.9	10001.2	10412.5	10718.2	10751.0	10525.3	10299.7	10310.6
27.5°	9852.0	9895.7	10168.6	10605.4	11023.9	11289.6	11286.0	10983.9	10652.7	10569.0
30°	10510.7	10558.1	10838.3	11289.6	11679.0	11911.9	11861.0	11500.7	11027.6	10871.1
32.5°	11293.2	11322.3	11606.2	12057.5	12417.8	12603.4	12497.9	12053.9	11464.3	11286.0
35°	12239.5	12283.2	12494.3	12920.1	13236.7	13389.6	13211.2	12687.1	12024.8	11824.6
37.5°	13320.4	13291.3	13531.5	13910.0	14172.0	14266.7	14022.8	13400.5	12665.3	12428.7
40°	14448.6	14434.1	14696.1	15060.1	15202.0	15260.2	14899.9	14219.4	13404.1	13149.4
42.5°	15471.3	15460.4	15813.4	16217.4	16388.5	16323.0	15868.0	15089.2	14259.4	13968.2
45°	16290.2	16275.6	16708.7	17276.5	17611.3	17502.1	16890.7	16050.0	15125.6	14823.5
47.5°	16919.8	16927.1	17393.0	18095.4	18681.3	18721.4	17935.2	17029.0	16079.1	15737.0
50°	17374.8	17396.6	17895.2	18674.0	19474.7	19827.8	19001.6	18033.5	17065.4	16679.6
52.5°	17487.6	17527.6	18128.1	19041.6	19984.3	20657.6	20086.2	18998.0	18000.7	17633.2
55°	16887.1	16967.1	17727.8	19012.5	20297.2	21203.5	21039.7	19977.0	18943.4	18564.9
57.5°	15507.7	15620.5	16508.6	18186.4	20228.1	21578.3	21778.5	20916.0	19886.0	19522.0
60°	13575.2	13709.8	14561.5	16392.1	19252.7	21716.6	22298.9	21829.5	20752.2	20399.1
62.5°	10660.0	10834.7	11853.7	14001.0	17192.8	21072.4	22743.0	22655.6	21531.0	21090.6
65°	6838.5	7024.1	8097.8	10634.5	14445.0	19099.9	22881.3	23459.9	22353.5	21738.5
67.5°	4123.5	4207.2	4738.6	6445.5	10558.1	16126.4	21709.4	24351.6	23314.4	22550.1
70°	2638.6	2685.9	3002.6	3785.0	5968.7	11766.4	18805.1	24519.0	24479.0	23383.5
72.5°	1790.6	1805.2	1888.9	2241.9	3377.4	6685.7	13870.0	22197.0	25206.9	24457.1
75°	1310.2	1390.3	1524.9	1586.8	1918.0	3341.0	7948.6	15595.1	21243.5	21571.1
77.5°	975.4	979.0	1164.6	1237.4	1368.4	1779.7	3362.9	8705.6	13189.4	13848.1
80°	826.2	782.5	778.8	997.2	1030.0	1110.0	1503.1	3006.2	4724.0	2864.3
82.5°	687.9	640.5	578.7	778.8	702.4	680.6	651.5	1222.9	1503.1	738.8
85°	480.4	458.6	436.7	509.5	400.3	342.1	313.0	571.4	633.3	313.0
87.5°	207.4	214.7	218.4	225.6	167.4	120.1	120.1	160.1	160.1	123.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°  
7635.6  
7682.9  
7868.5  
8185.1  
8556.4  
8923.9  
9313.4  
9608.2  
9848.4  
10074.0  
10328.8  
10594.5  
10889.3  
11329.6  
11853.7  
12472.4  
13233.1  
14041.0  
14892.7  
15838.9  
16796.1  
17727.8  
18670.4  
19605.7  
20475.6  
21141.6  
21814.9  
22608.3  
23376.2  
*24340.7*  
20777.7  
12352.3  
2165.5  
629.6  
276.6  
91.0  
0.0

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