

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: P450949

Luminaire Tested: **GALN-SA1D-740-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450949  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1D-740-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8076 lumens  
Efficiency: N/A  
Efficacy: 124.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

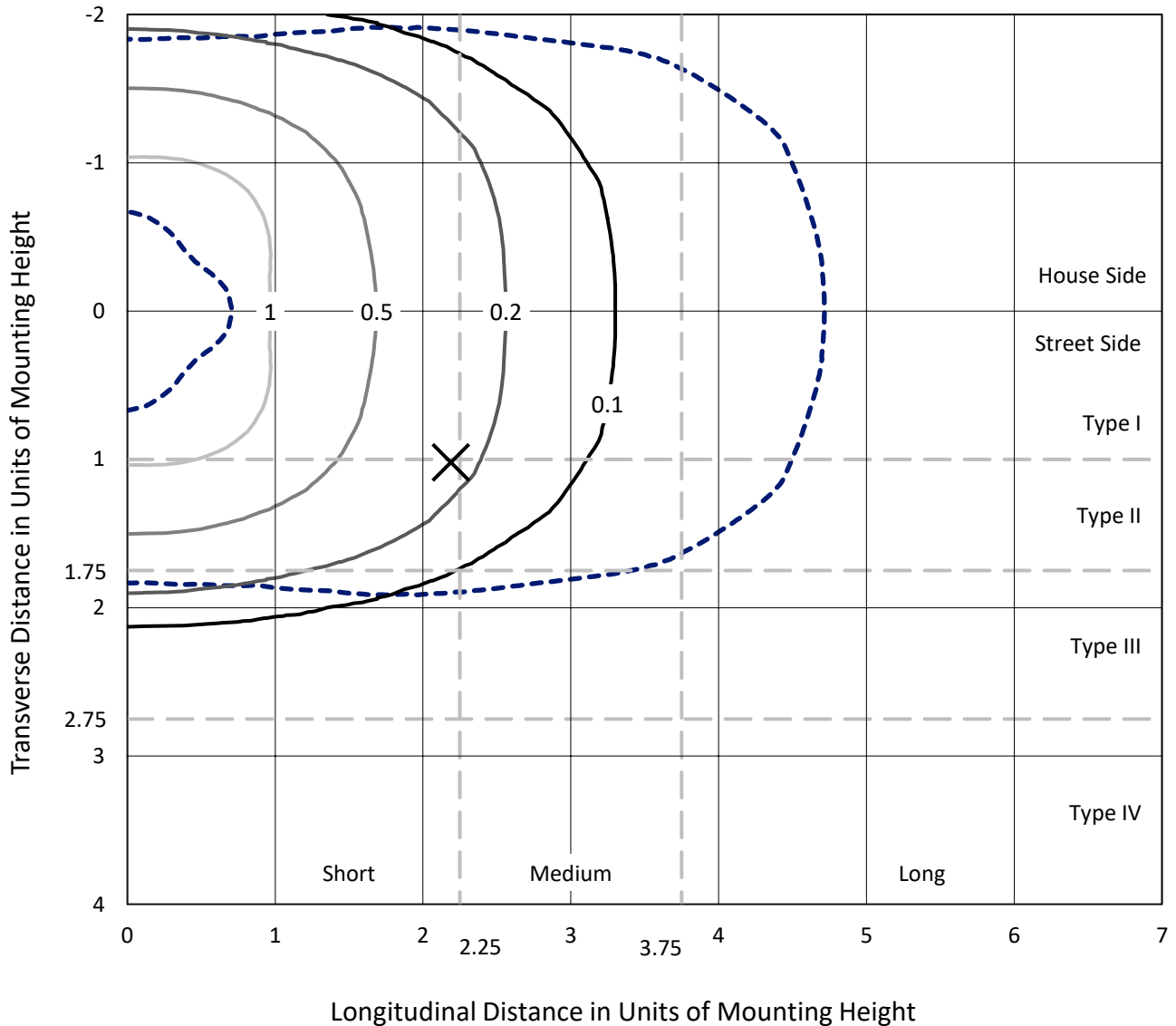




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### Iso-Footcandle Lines of Horizontal Illumination

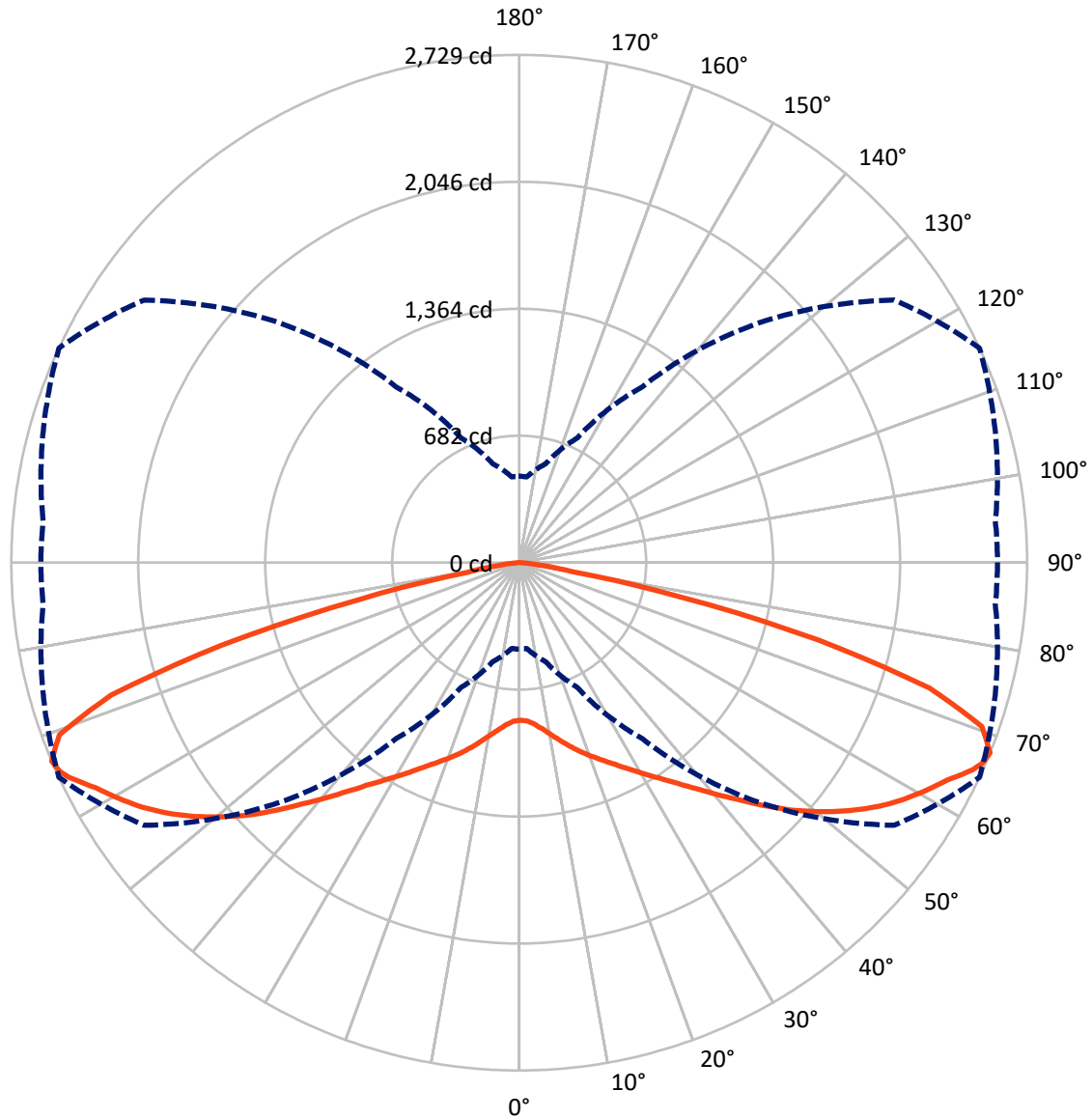
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4038.0	0.0	4038.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4038.0	0.0	4038.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8076.0	0.0	8076.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.4	1.0
10°-20°	279.2	3.5
20°-30°	546.2	6.8
30°-40°	929.0	11.5
40°-50°	1470.3	18.2
50°-60°	1949.6	24.1
60°-70°	1839.1	22.8
70°-80°	909.1	11.3
80°-90°	70.1	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°	8076.0	100.0
0°-180°	8076.0	100.0



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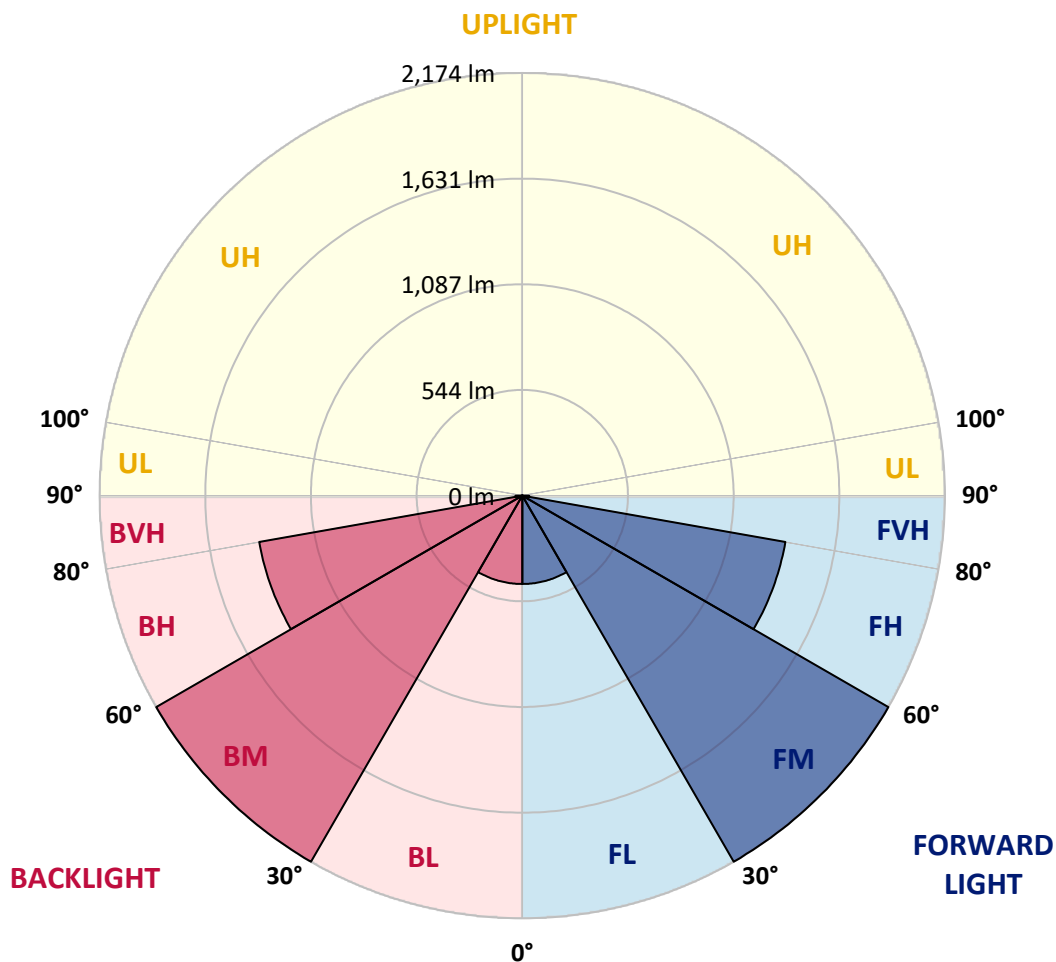
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	454.4	5.6			
FM	(30°-60°)	2174.4	26.9			
FH	(60°-80°)	1374.1	17.0			G1/1800
FVH	(80°-90°)	35.0	0.4			G1/100
BL	(0°-30°)	454.4	5.6	B1/500		
BM	(30°-60°)	2174.4	26.9	B2/2500		
BH	(60°-80°)	1374.1	17.0	B3/2500		G3/2500
BVH	(80°-90°)	35.0	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-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	845.9	845.9	845.9	845.9	845.9	845.9	845.9	845.9	845.9	845.9	845.9
2.5°	841.6	842.4	843.3	844.6	846.3	848.9	850.6	851.9	855.4	855.8	855.4
5°	838.5	839.4	841.6	845.5	851.1	858.9	864.9	872.3	877.9	881.8	880.9
7.5°	838.1	839.8	843.3	851.5	862.3	875.7	889.6	902.1	913.0	921.6	920.3
10°	845.0	847.2	852.8	864.9	881.8	901.3	920.7	939.3	954.9	966.2	970.1
12.5°	856.7	858.4	868.8	887.0	911.2	935.5	957.5	980.5	1002.1	1021.1	1021.1
15°	877.0	880.1	893.1	919.4	949.3	977.4	999.9	1024.2	1047.5	1069.2	1075.6
17.5°	905.2	909.5	929.0	962.7	1000.8	1026.8	1048.0	1067.9	1088.2	1109.0	1112.0
20°	943.7	948.0	974.0	1014.6	1059.6	1090.8	1105.1	1109.8	1119.8	1139.7	1142.3
22.5°	996.0	1000.4	1029.3	1075.2	1125.4	1159.2	1165.2	1154.0	1151.4	1166.9	1168.7
25°	1055.3	1059.2	1092.5	1141.8	1193.8	1230.5	1228.8	1201.1	1185.5	1195.1	1197.7
27.5°	1121.9	1127.6	1161.3	1212.4	1268.6	1301.1	1295.9	1255.6	1222.3	1220.6	1221.5
30°	1207.2	1213.2	1245.3	1294.1	1349.5	1379.4	1368.6	1314.5	1263.0	1245.7	1245.7
32.5°	1297.2	1312.3	1344.8	1395.8	1439.1	1460.7	1444.3	1379.4	1311.0	1286.8	1285.5
35°	1414.4	1422.7	1454.7	1504.4	1536.9	1553.8	1522.2	1452.5	1373.8	1345.2	1341.3
37.5°	1529.1	1536.0	1573.2	1620.8	1660.2	1659.3	1616.5	1539.5	1451.6	1419.6	1417.0
40°	1646.3	1653.7	1696.1	1739.8	1779.2	1775.7	1723.8	1637.7	1544.2	1508.3	1515.2
42.5°	1748.0	1756.2	1804.3	1866.6	1902.1	1901.2	1841.1	1744.1	1646.8	1614.8	1620.8
45°	1840.6	1848.0	1903.8	1975.2	2027.1	2033.6	1967.8	1865.3	1765.3	1724.2	1726.0
47.5°	1906.0	1919.8	1978.2	2060.0	2130.5	2153.4	2089.0	1988.6	1873.5	1830.7	1833.3
50°	1955.7	1964.4	2028.0	2121.0	2210.1	2257.7	2205.8	2102.8	1981.7	1936.2	1942.3
52.5°	1961.8	1972.2	2041.4	2148.7	2262.9	2335.2	2309.6	2214.5	2092.0	2045.3	2058.3
55°	1912.4	1918.5	2001.1	2131.4	2283.7	2392.7	2399.2	2318.3	2197.1	2161.7	2170.3
57.5°	1771.8	1787.4	1892.1	2050.5	2255.1	2423.4	2466.3	2412.6	2303.6	2268.5	2282.4
60°	1541.2	1556.8	1661.9	1862.7	2147.4	2409.2	2521.7	2496.1	2400.1	2372.0	2379.3
62.5°	1207.6	1206.3	1336.5	1582.7	1933.2	2339.1	2562.8	2576.6	2495.3	2459.8	2471.0
65°	782.7	786.6	912.5	1177.8	1610.0	2160.8	2571.9	2679.2	2588.7	2535.1	2543.3
66°	629.5	641.2	748.1	992.6	1445.2	2044.0	2544.6	2709.4	2617.3	2552.4	2556.3
67.5°	464.7	462.5	550.4	739.0	1154.0	1822.0	2459.4	2728.5	2649.7	2568.0	2569.7
70°	265.2	264.8	296.0	405.9	678.4	1282.9	2073.0	2637.2	2715.5	2624.2	2619.4
72.5°	193.8	192.5	196.9	224.1	331.0	647.7	1430.0	2304.9	2681.8	2615.1	2601.7
75°	162.7	161.8	161.0	164.4	185.6	293.4	758.9	1658.0	2327.0	2454.6	2440.7
77.5°	132.8	132.8	133.3	132.4	133.3	154.5	314.6	888.7	1417.0	1581.9	1620.4
80°	103.8	103.4	110.8	107.7	100.8	99.1	139.3	286.0	470.3	467.7	386.0
82.5°	76.6	71.4	84.4	82.2	74.4	63.2	81.3	122.0	157.1	102.1	75.7
85°	48.5	48.0	59.7	54.5	45.4	29.9	38.9	52.4	64.9	39.4	32.0
87.5°	8.7	8.2	19.0	13.8	13.8	8.7	10.8	14.3	21.2	14.7	10.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)