

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: P457412

Luminaire Tested: **GALN-SA8D-730-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457412
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-730-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59372 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

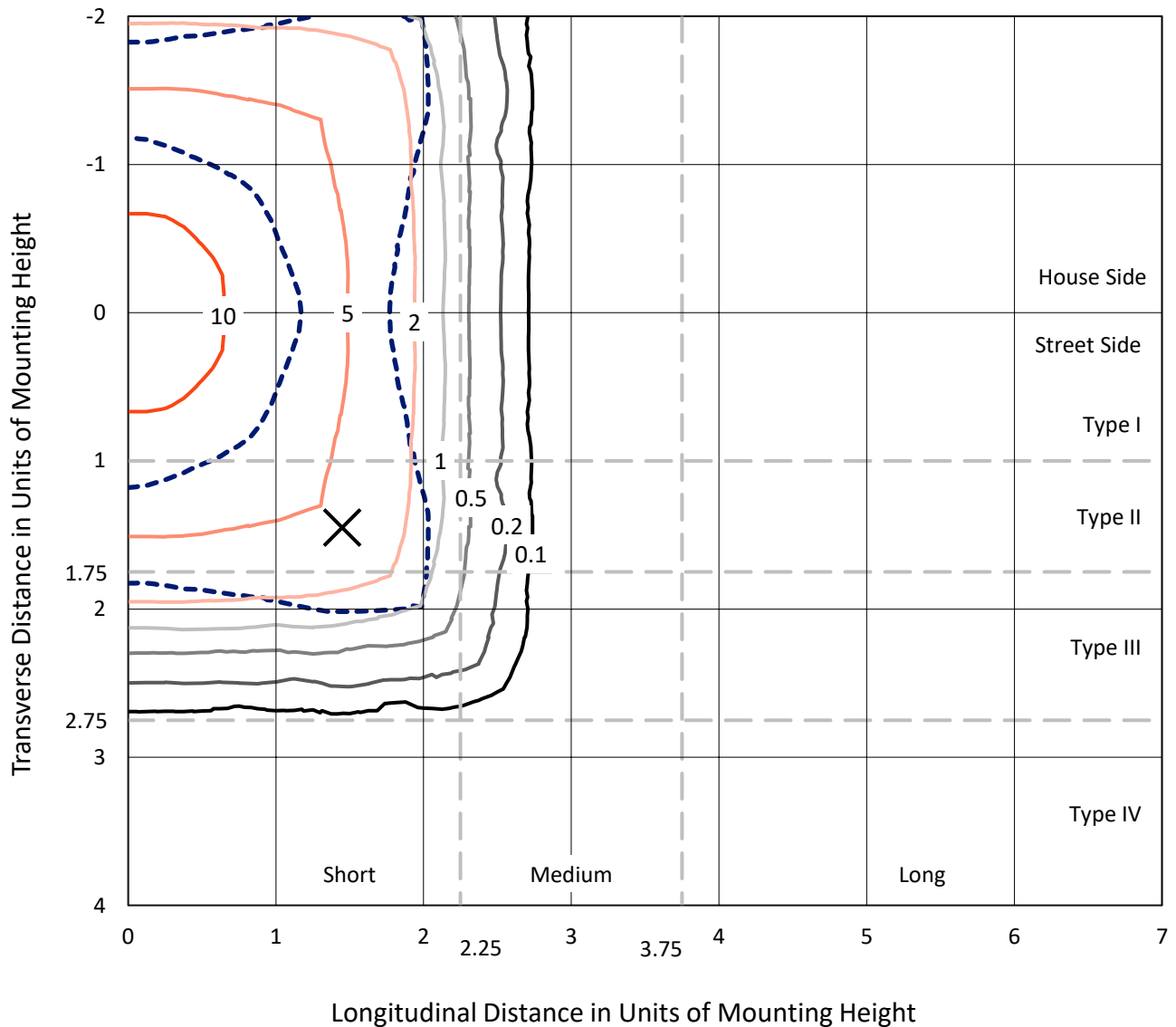
Input Watts (W): 493
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

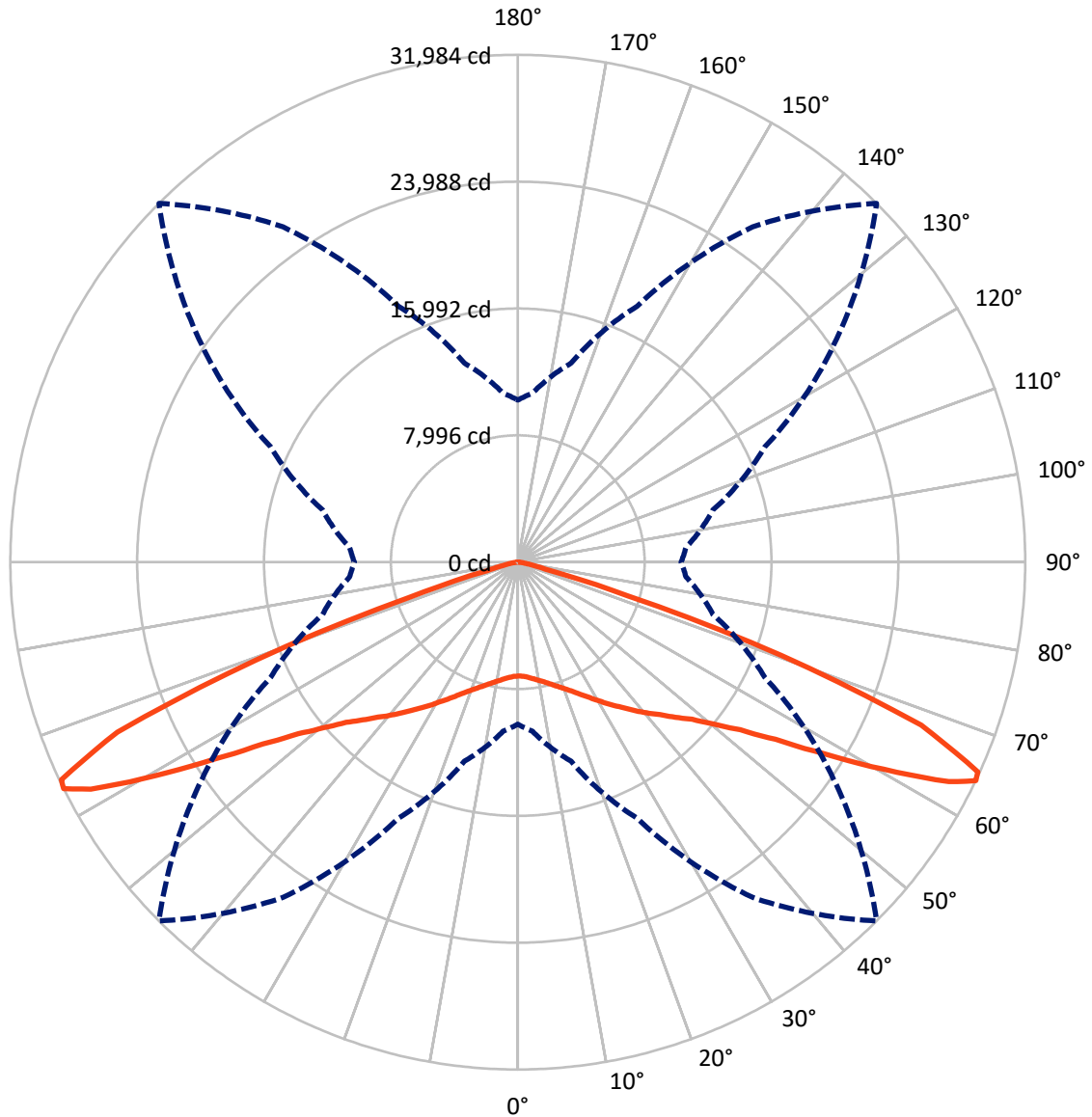
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type V - Short - N/A

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CATALOG NUMBER: GALN-SA8D-730-U-5NQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	29686.0	0.0	29686.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	29686.0	0.0	29686.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	59372.0	0.0	59372.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	705.0	1.2
10°-20°	2274.1	3.8
20°-30°	4297.4	7.2
30°-40°	7116.9	12.0
40°-50°	11110.7	18.7
50°-60°	17176.9	28.9
60°-70°	14811.4	24.9
70°-80°	1678.5	2.8
80°-90°	201.1	0.3
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°	59372.0	100.0
0°-180°	59372.0	100.0

Coefficient of Utilization



REPORT NUMBER: P457412

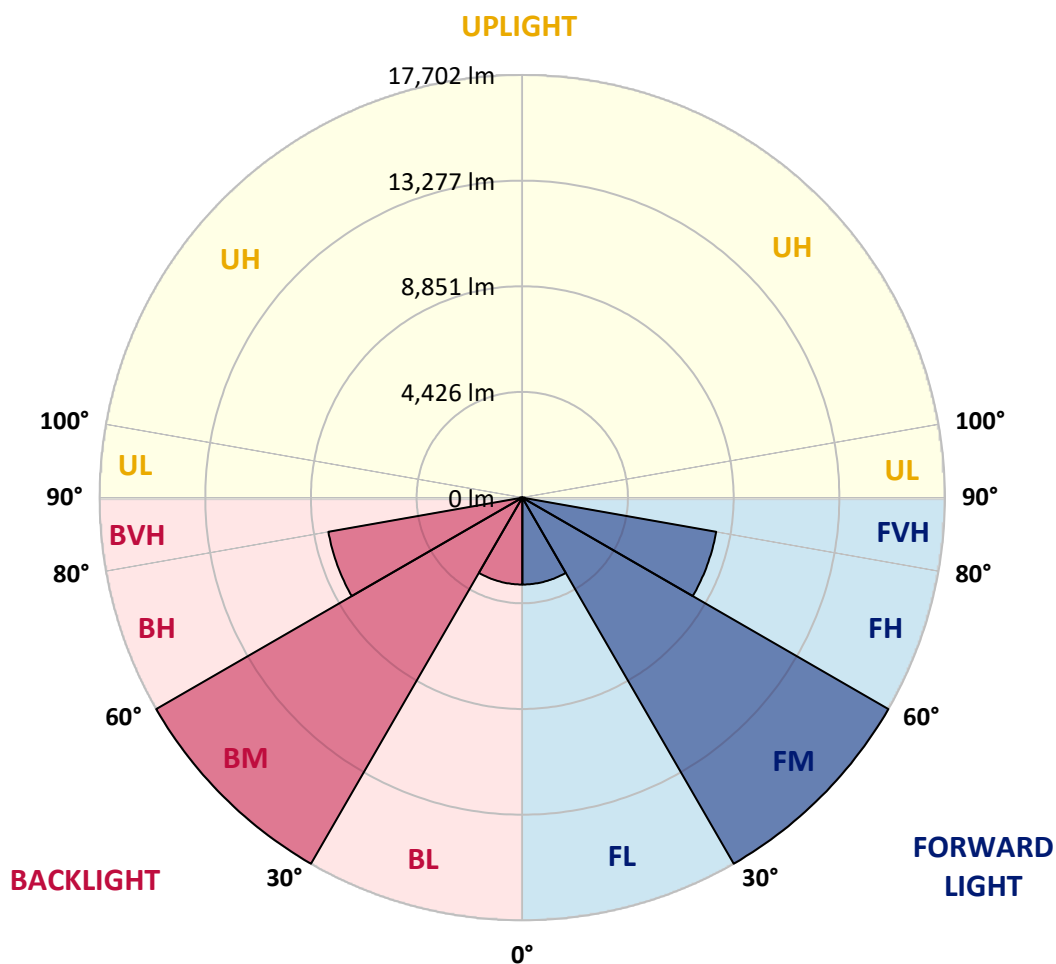
CATALOG NUMBER: GALN-SA8D-730-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3638.2	6.1			
FM	(30°-60°)	17702.3	29.8			
FH	(60°-80°)	8245.0	13.9			G4/12000
FVH	(80°-90°)	100.5	0.2			G2/225
BL	(0°-30°)	3638.2	6.1	B4/5000		
BM	(30°-60°)	17702.3	29.8	B5		
BH	(60°-80°)	8245.0	13.9	B5		G4/12000
BVH	(80°-90°)	100.5	0.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7176.1	7176.1	7176.1	7176.1	7176.1	7176.1	7176.1	7176.1	7176.1	7176.1	7176.1
2.5°	7204.4	7220.1	7207.6	7204.4	7201.3	7201.3	7201.3	7204.4	7217.0	7226.4	7220.1
5°	7295.6	7308.2	7301.9	7298.7	7295.6	7298.7	7292.5	7289.3	7298.7	7298.7	7295.6
7.5°	7408.8	7424.5	7418.2	7424.5	7427.7	7430.8	7415.1	7402.5	7399.4	7408.8	7402.5
10°	7562.9	7575.5	7578.6	7581.8	7588.1	7584.9	7566.0	7544.0	7540.9	7537.7	7534.6
12.5°	7735.9	7745.3	7748.4	7761.0	7770.4	7773.6	7751.6	7732.7	7701.3	7707.6	7695.0
15°	7930.8	7949.7	7946.5	7965.4	7990.6	7996.9	7974.8	7943.4	7915.1	7899.4	7889.9
17.5°	8169.8	8182.4	8176.1	8195.0	8226.4	8242.1	8223.3	8182.4	8154.1	8119.5	8100.6
20°	8452.8	8474.8	8481.1	8481.1	8509.4	8525.2	8496.9	8484.3	8440.3	8415.1	8399.4
22.5°	8773.6	8783.0	8801.9	8820.8	8849.1	8842.8	8833.3	8814.5	8773.6	8751.6	8726.4
25°	9135.2	9144.7	9191.8	9232.7	9242.1	9235.9	9223.3	9213.8	9176.1	9125.8	9106.9
27.5°	9556.6	9575.5	9638.4	9676.1	9676.1	9679.3	9654.1	9685.5	9603.8	9544.0	9537.7
30°	10084.9	10097.5	10150.9	10188.7	10169.8	10154.1	10147.8	10179.3	10091.2	9984.3	9959.1
32.5°	10606.9	10650.9	10698.1	10779.9	10713.8	10685.5	10679.3	10701.3	10600.6	10481.1	10446.5
35°	11166.7	11198.1	11286.2	11355.4	11295.6	11229.6	11257.9	11327.1	11207.6	11047.2	11040.9
37.5°	11786.2	11814.5	11927.7	12000.0	11956.0	11842.8	11889.9	11971.7	11852.2	11654.1	11613.2
40°	12430.8	12490.6	12632.1	12707.6	12635.2	12484.3	12572.3	12660.4	12553.5	12323.9	12232.7
42.5°	13154.1	13248.4	13452.8	13490.6	13352.2	13147.8	13301.9	13443.4	13367.9	13103.8	13069.2
45°	14000.0	14056.6	14308.2	14389.9	14198.1	13943.4	14135.2	14393.1	14336.5	14031.5	13965.4
47.5°	14946.5	15000.0	15261.0	15383.7	15141.5	14798.8	15144.7	15481.1	15446.5	15119.5	15088.1
50°	16066.0	16078.6	16440.3	16578.6	16336.5	16040.9	16349.1	16767.3	16628.9	16210.7	16204.4
52.5°	17292.5	17308.2	17764.2	18031.5	17896.2	17562.9	17927.7	18182.4	17830.2	17283.0	17242.1
55°	18355.4	18434.0	19056.6	19767.3	19952.8	19710.7	19820.8	19701.3	18833.3	18066.0	17946.6
57.5°	18789.3	18943.4	19889.9	21217.0	22424.5	22783.0	21934.0	20795.6	19232.7	18147.8	18031.5
60°	17729.6	17896.2	19364.8	21883.7	24965.4	26522.0	24135.2	20981.1	18323.9	16798.8	16616.4
62.5°	14198.1	14245.3	16405.7	20314.5	26446.6	30478.0	25062.9	19399.4	15679.3	13606.9	13534.6
64°	10217.0	10701.3	12990.6	17811.3	25798.8	31984.3	24528.3	17182.4	12735.9	10638.4	10298.7
65°	7641.5	7773.6	10471.7	15210.7	24657.2	31871.1	23490.6	15062.9	10547.2	8141.5	7764.2
67.5°	2886.8	2902.5	3864.8	7581.8	17553.5	27421.4	17927.7	8195.0	4443.4	3213.8	3097.5
70°	1198.1	1220.1	1418.2	2550.3	7544.0	17606.9	8644.7	2956.0	1625.8	1317.6	1298.7
72.5°	877.4	889.9	949.7	1132.1	2320.8	7229.6	2842.8	1254.7	952.8	852.2	842.8
75°	688.7	695.0	739.0	833.3	1081.8	2003.1	1182.4	861.6	726.4	654.1	647.8
77.5°	525.2	540.9	572.3	635.2	726.4	949.7	783.0	644.7	559.7	500.0	490.6
80°	361.6	380.5	440.3	465.4	487.4	616.4	534.6	487.4	437.1	364.8	342.8
82.5°	223.3	235.8	295.6	317.6	308.2	345.9	342.8	349.1	311.3	226.4	210.7
85°	116.4	122.6	160.4	166.7	154.1	141.5	176.1	204.4	191.8	128.9	125.8
87.5°	25.2	28.3	34.6	31.4	34.6	34.6	44.0	66.0	69.2	44.0	40.9
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)