

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: P821202

Luminaire Tested: **TT-D1-735-24VDC-WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P821202
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1908-473-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-D1-735-24VDC-WQ
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
3500K, 70 CRI LEDS AND WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

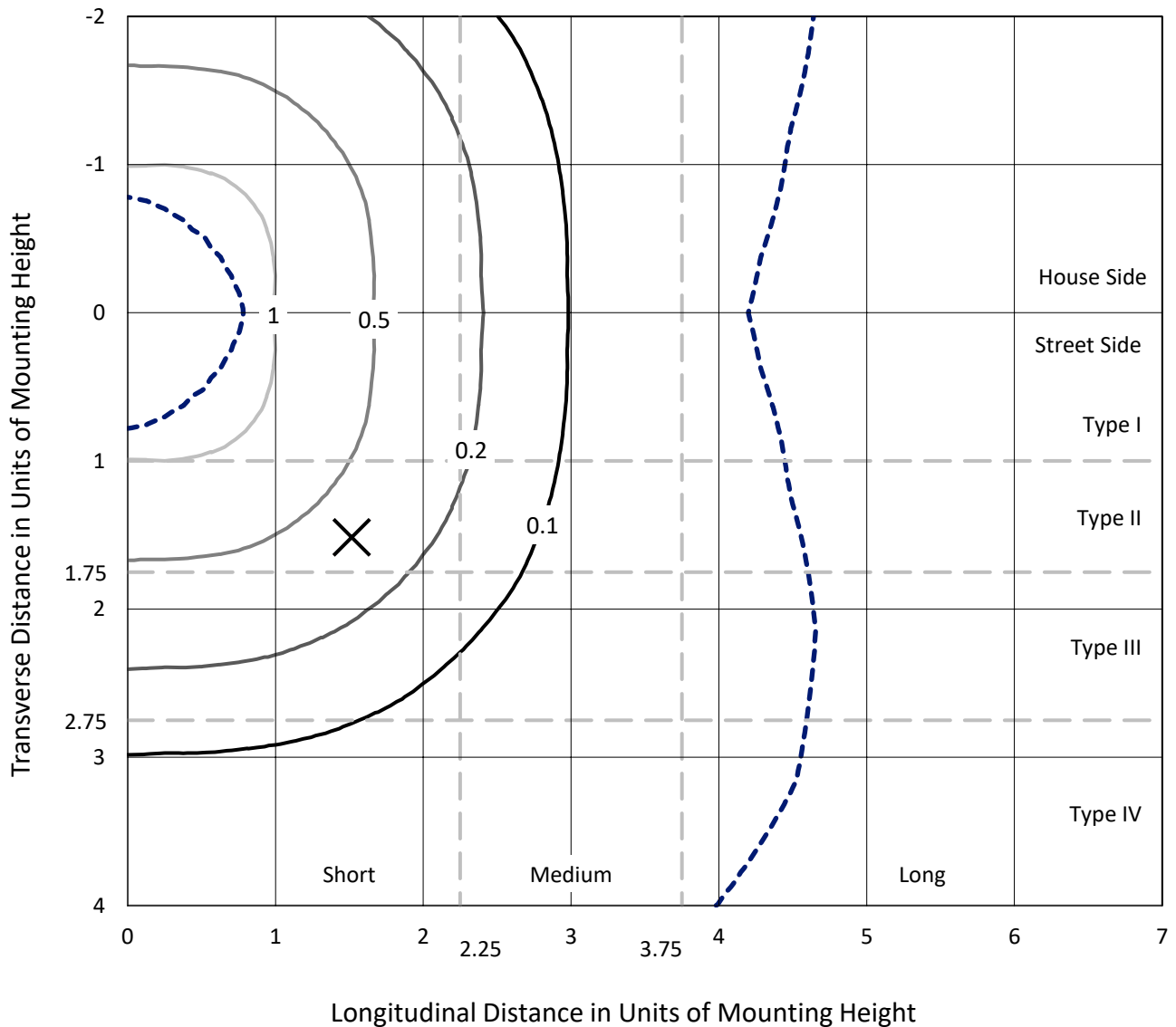
Lumens per Lamp: N/A
Luminaire Lumens: 3662 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 28
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: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

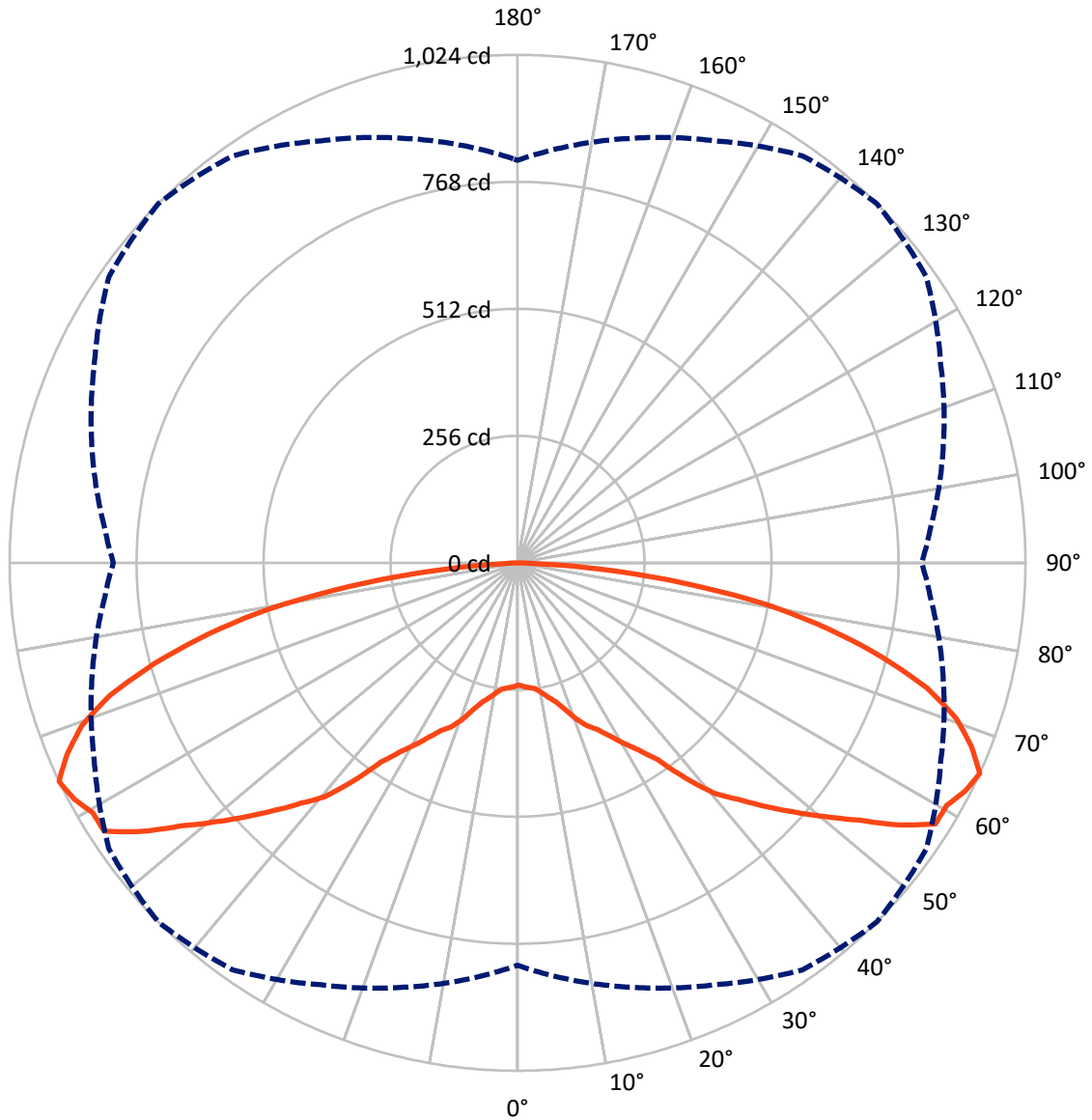
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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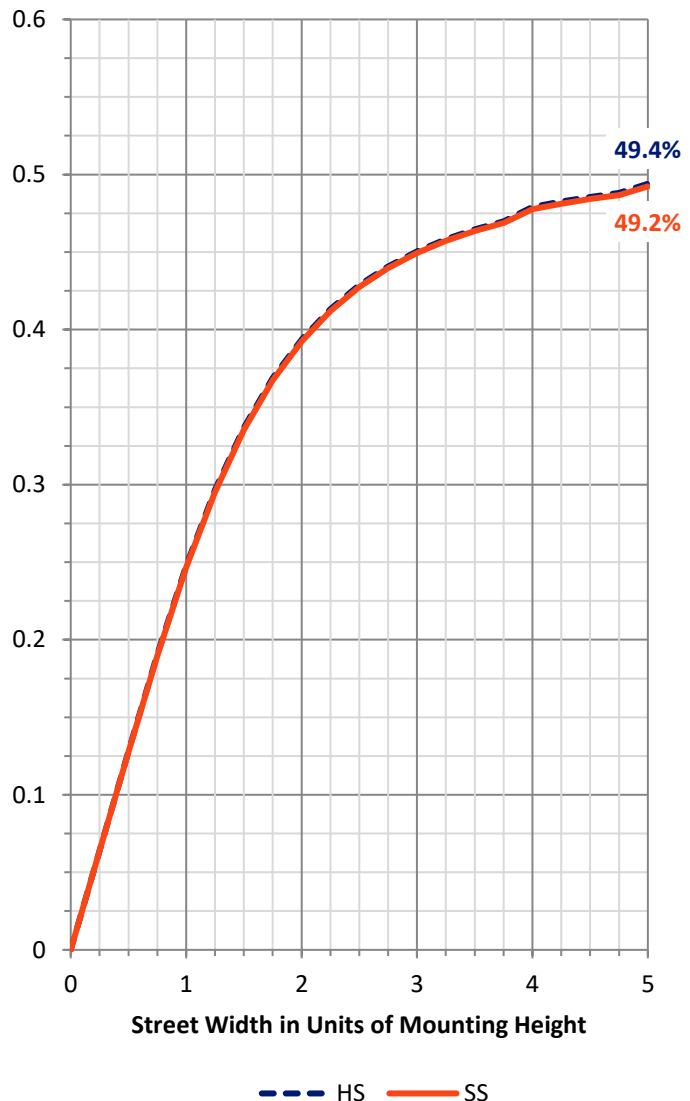
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1831.0	0.0	1831.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1831.0	0.0	1831.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	3662.0	0.0	3662.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.6	0.7
10°-20°	84.5	2.3
20°-30°	173.6	4.7
30°-40°	308.4	8.4
40°-50°	519.8	14.2
50°-60°	766.8	20.9
60°-70°	899.9	24.6
70°-80°	701.1	19.1
80°-90°	183.3	5.0
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°	3662.0	100.0
0°-180°	3662.0	100.0

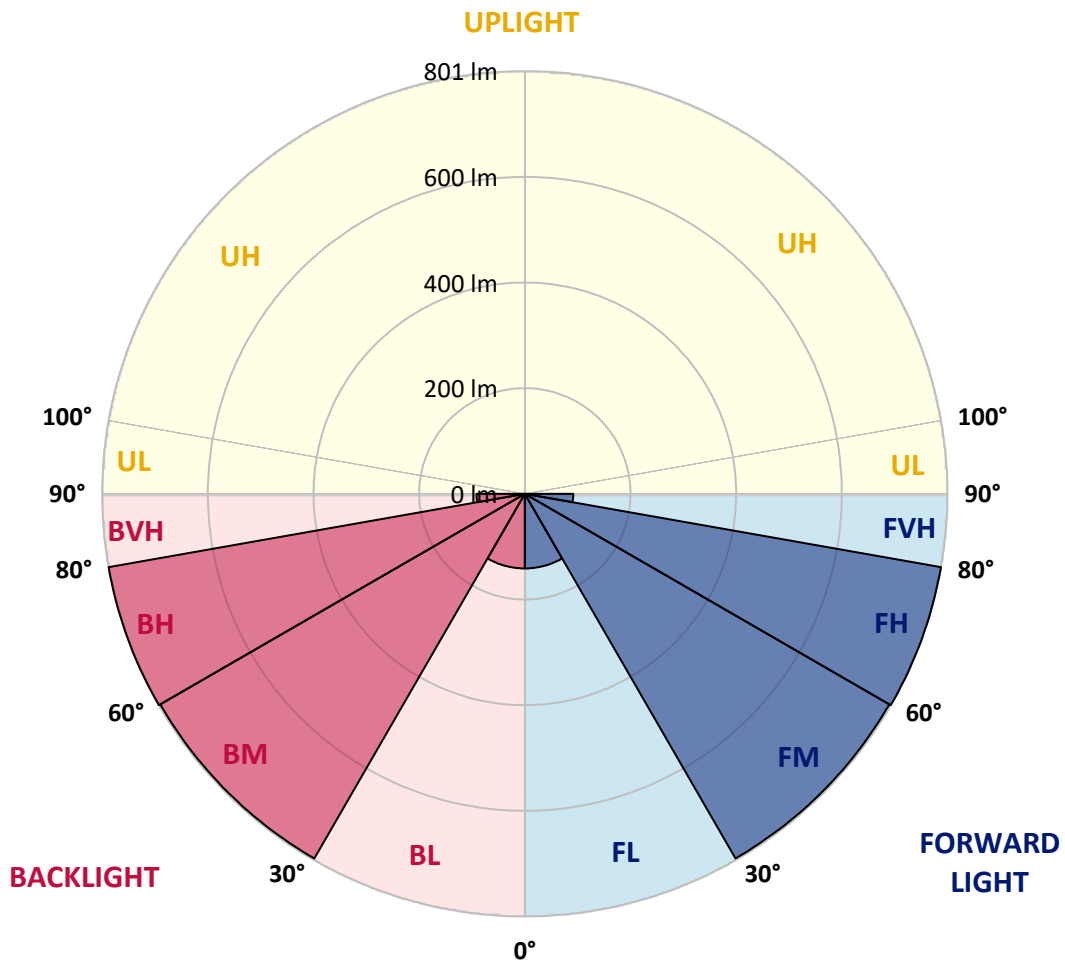


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	141.3	3.9			
FM (30°-60°)	797.5	21.8			
FH (60°-80°)	800.5	21.9			G1/1800
FVH (80°-90°)	91.7	2.5			G1/100
BL (0°-30°)	141.3	3.9	B1/500		
BM (30°-60°)	797.5	21.8	B1/1000		
BH (60°-80°)	800.5	21.9	B2/1000		G1/1800
BVH (80°-90°)	91.7	2.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	246.5	246.5	246.5	246.5	246.5	246.5	246.5	246.5	246.5	246.5	246.5
2.5°	250.5	250.5	250.5	249.9	249.9	249.9	249.9	250.5	250.5	250.5	250.5
5°	256.3	256.3	255.1	254.0	252.8	252.8	253.4	254.0	254.5	255.7	255.7
7.5°	259.7	259.7	259.1	258.0	256.3	256.3	256.8	258.0	258.6	258.6	258.0
10°	264.3	264.9	266.6	267.2	266.0	266.0	266.6	267.2	266.0	264.3	264.3
12.5°	275.3	275.8	278.1	279.9	279.9	278.7	279.3	280.4	277.6	274.7	275.3
15°	290.8	290.8	291.4	293.1	292.0	290.8	292.0	292.5	290.8	290.2	291.4
17.5°	311.5	311.5	308.1	311.0	311.5	311.0	312.1	309.2	307.5	309.8	311.0
20°	334.0	331.7	330.0	332.3	336.9	335.1	337.4	331.1	329.4	330.5	331.1
22.5°	348.4	350.1	351.3	352.4	358.8	356.5	358.8	351.8	350.7	348.4	346.7
25°	365.7	367.4	374.3	370.8	374.9	371.4	374.3	370.3	372.6	365.7	365.7
27.5°	385.2	388.7	392.7	391.0	396.2	394.5	396.2	390.4	391.0	388.1	387.0
30°	411.7	411.7	410.6	414.0	423.3	422.1	422.7	415.2	410.0	410.6	412.9
32.5°	438.2	434.8	436.5	446.9	452.6	450.3	451.5	448.0	436.5	434.2	435.9
35°	463.0	468.2	472.2	480.8	488.9	487.7	487.2	481.4	473.9	464.7	461.8
37.5°	501.6	507.3	518.3	533.8	548.2	551.1	543.6	536.1	518.8	505.6	498.7
40°	552.2	552.8	565.5	595.4	608.7	611.0	606.9	594.3	567.8	552.8	552.2
42.5°	596.6	592.6	613.3	638.6	650.7	651.9	649.0	638.6	613.3	592.0	596.0
45°	631.1	631.1	655.9	676.0	695.6	700.2	695.1	673.2	656.5	631.7	630.0
47.5°	662.8	671.4	692.2	716.9	744.6	750.9	744.6	718.7	690.4	672.0	662.2
50°	700.8	711.2	726.1	764.7	795.8	804.5	795.2	767.0	726.1	710.6	704.8
52.5°	745.2	753.8	777.4	825.8	848.8	861.5	854.0	826.9	778.5	754.9	750.3
55°	798.1	790.1	826.9	873.6	916.2	932.9	917.9	874.7	832.7	790.1	798.1
57.5°	825.2	816.0	867.8	912.1	971.5	993.3	974.9	915.6	867.8	818.9	824.6
60°	827.5	831.5	870.7	943.2	984.1	993.3	987.6	948.4	872.4	835.0	824.0
62.5°	820.6	845.3	878.7	953.6	990.5	1012.9	993.3	954.8	882.2	849.4	821.2
65°	811.4	836.1	885.7	938.6	1001.4	1023.9	1005.4	941.5	888.0	836.1	814.8
67.5°	795.2	786.6	847.7	918.5	973.2	986.4	974.9	919.6	847.1	785.5	797.0
70°	744.0	736.5	788.9	866.7	919.1	937.5	923.7	867.8	790.1	738.2	745.2
72.5°	668.0	670.3	721.0	795.2	851.7	863.2	855.7	794.7	723.8	673.2	664.0
75°	579.3	585.1	633.4	700.8	752.1	759.0	751.5	703.7	632.9	588.5	576.4
77.5°	476.2	484.9	524.0	591.4	625.4	640.9	628.8	593.1	526.9	487.2	475.1
80°	369.1	372.0	399.6	453.8	498.7	509.1	497.5	455.5	403.1	373.2	364.5
82.5°	241.9	246.5	271.2	312.7	342.1	339.2	342.1	309.2	274.1	245.3	230.9
85°	107.7	116.9	133.6	153.2	172.2	177.4	172.2	155.5	133.6	114.6	112.3
87.5°	7.5	8.6	10.4	10.9	12.1	9.2	9.2	9.2	8.1	9.2	7.5
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)