

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: P821303

Luminaire Tested: **TT-D3-740-24VDC-RW**

Issue Date: 10/15/2020



Test Information

Test Method: LM-79-08
Report Number: P821303
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2010-981-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-D3-740-24VDC-RW
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
4000K, 70 CRI LEDS AND RECTANGULAR DISTRIBUTION
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

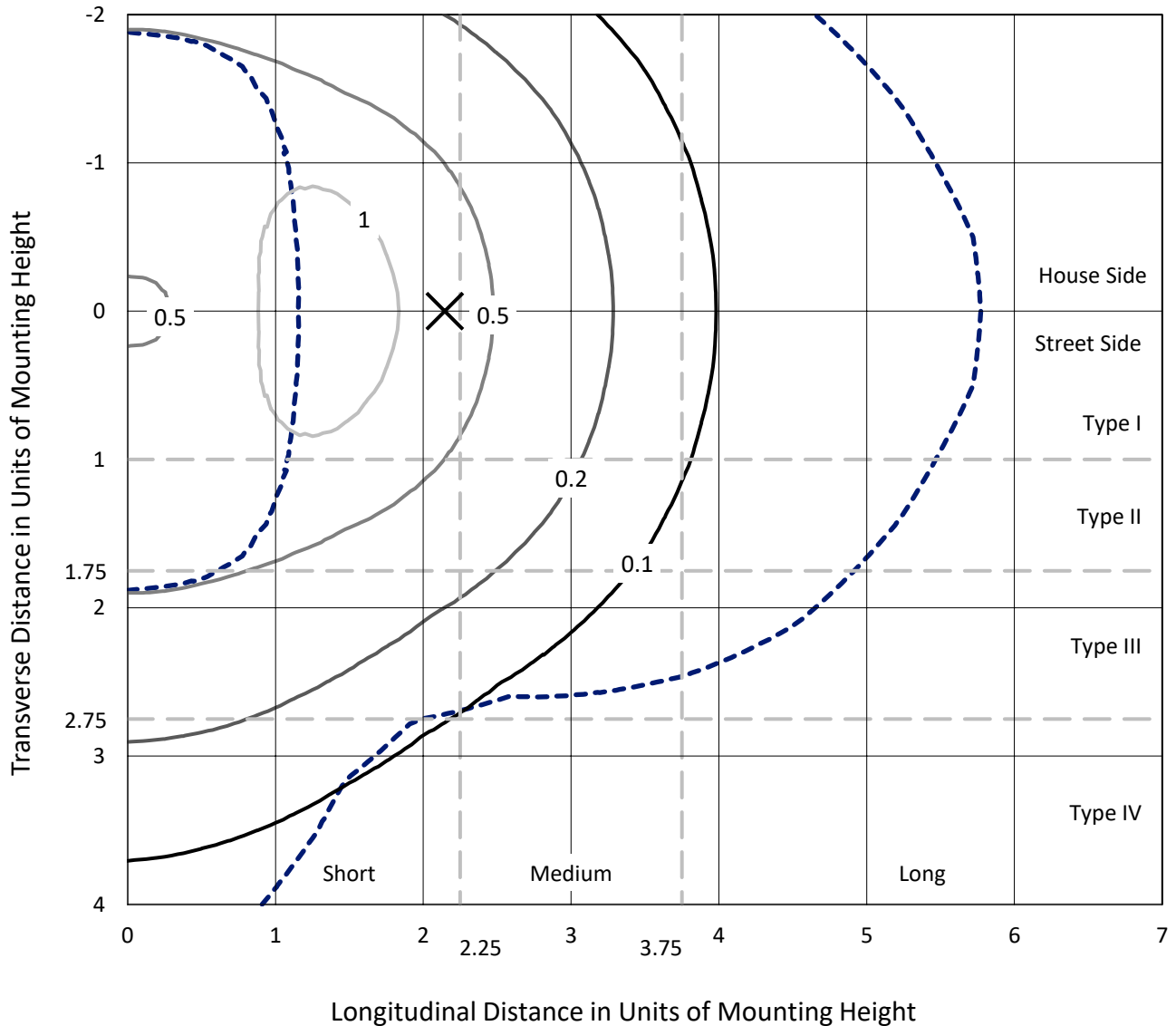
Lumens per Lamp: N/A
Luminaire Lumens: 5083 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 46
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

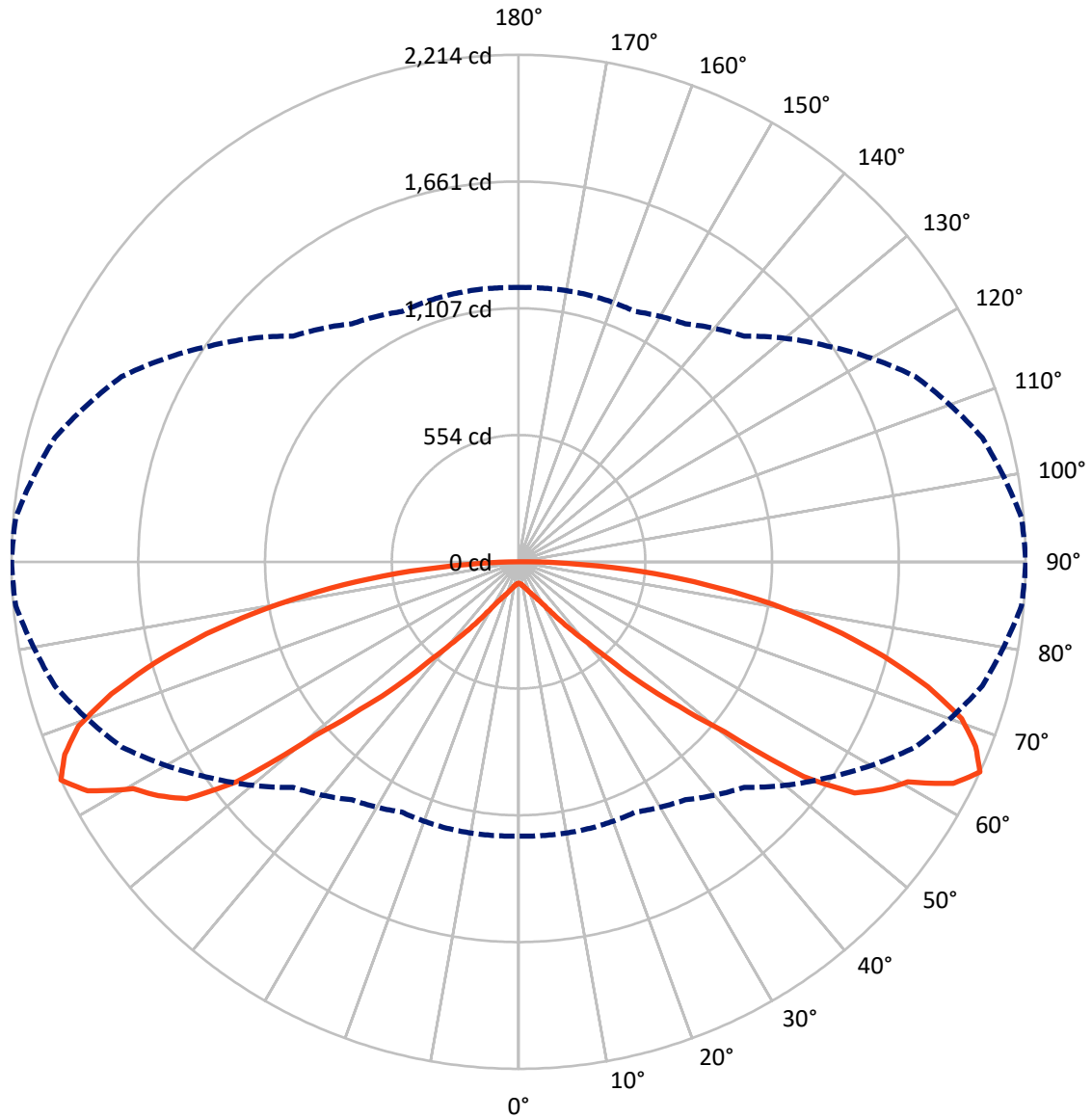
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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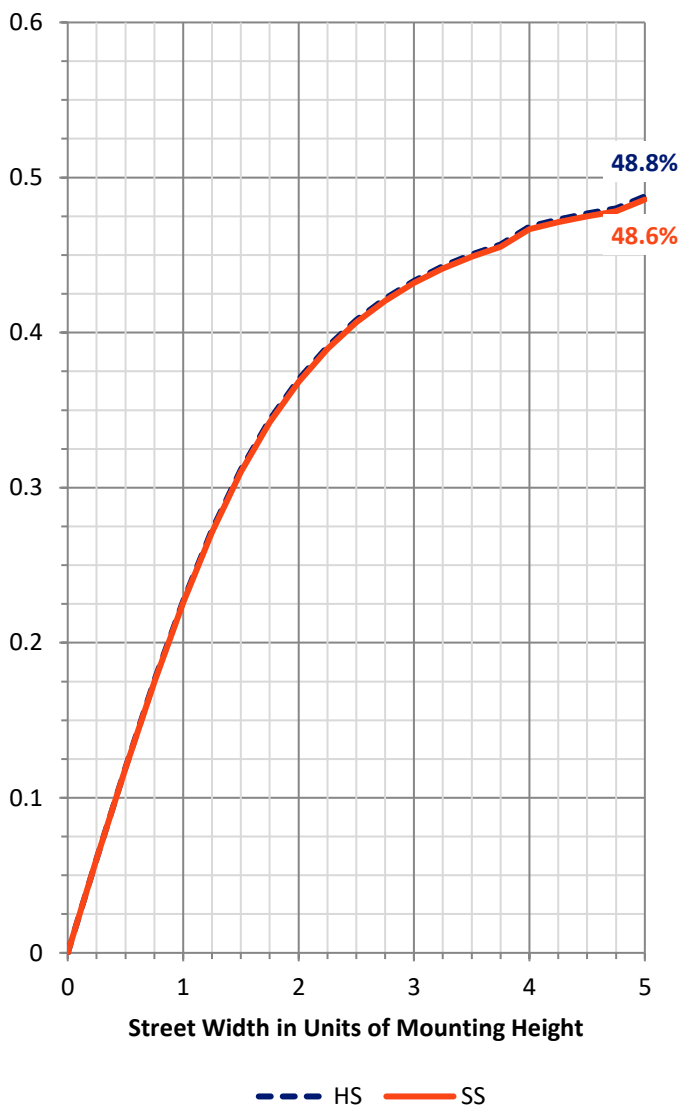
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2541.5	0.0	2541.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2541.5	0.0	2541.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5083.0	0.0	5083.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.7	0.2
10°-20°	36.3	0.7
20°-30°	83.8	1.6
30°-40°	189.4	3.7
40°-50°	461.3	9.1
50°-60°	1037.4	20.4
60°-70°	1516.1	29.8
70°-80°	1321.1	26.0
80°-90°	427.9	8.4
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°	5083.0	100.0
0°-180°	5083.0	100.0



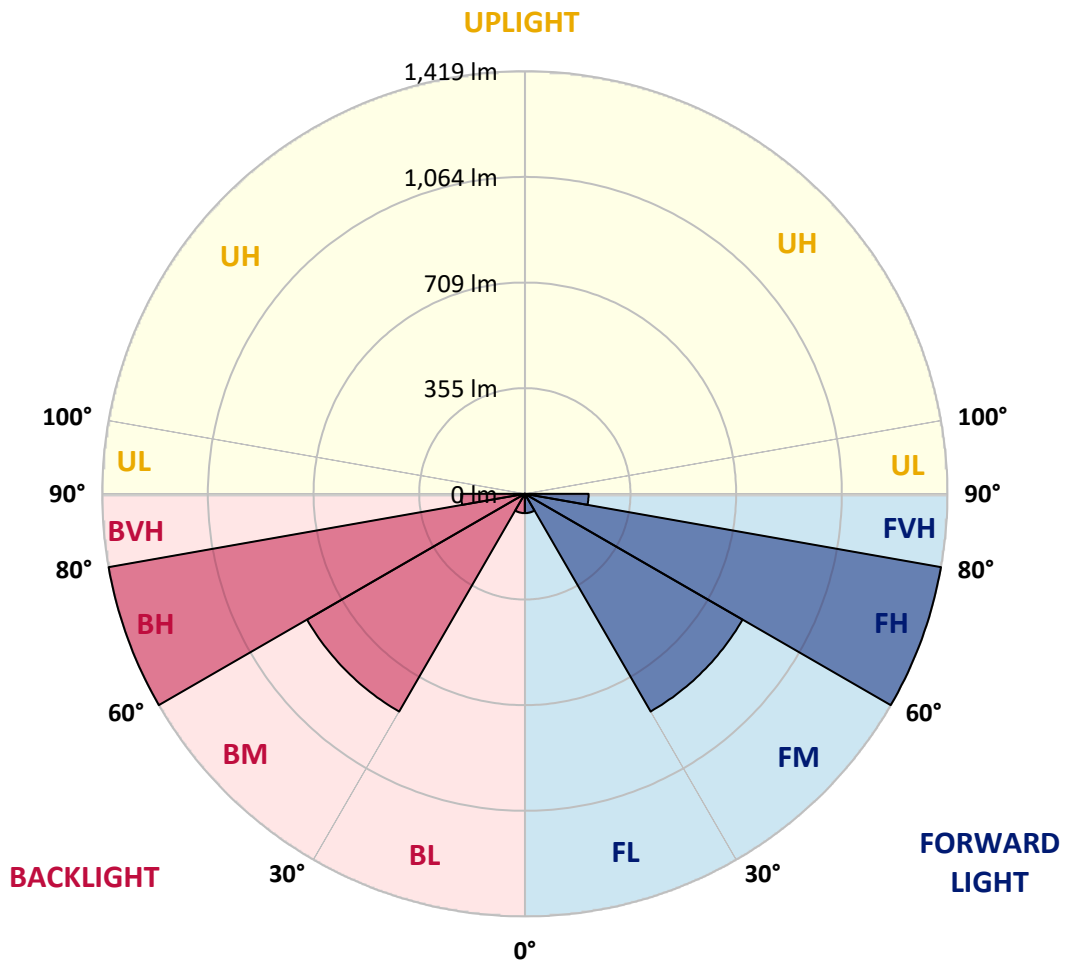
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	64.9	1.3			
FM (30°-60°)	844.1	16.6			
FH (60°-80°)	1418.6	27.9			G1/1800
FVH (80°-90°)	214.0	4.2			G2/225
BL (0°-30°)	64.9	1.3	B0/110		
BM (30°-60°)	844.1	16.6	B1/1000		
BH (60°-80°)	1418.6	27.9	B3/2500		G3/2500
BVH (80°-90°)	214.0	4.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
2.5°	94.1	94.1	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
5°	97.7	97.7	97.7	97.7	98.9	98.9	97.7	97.7	97.7	97.7	97.7
7.5°	103.7	102.5	103.7	103.7	103.7	102.5	102.5	102.5	101.3	101.3	101.3
10°	109.8	109.8	111.0	109.8	109.8	108.5	108.5	108.5	107.3	107.3	107.3
12.5°	118.2	118.2	118.2	118.2	117.0	117.0	115.8	114.6	113.4	113.4	113.4
15°	129.0	127.8	127.8	126.6	125.4	124.2	123.0	123.0	121.8	121.8	121.8
17.5°	139.9	139.9	138.7	137.5	135.1	133.9	133.9	132.7	131.5	131.5	131.5
20°	153.2	153.2	152.0	149.6	147.1	145.9	144.7	144.7	143.5	143.5	143.5
22.5°	168.8	167.6	165.2	162.8	160.4	159.2	158.0	156.8	156.8	156.8	156.8
25°	185.7	184.5	183.3	179.7	176.1	174.9	172.5	172.5	171.3	172.5	172.5
27.5°	206.2	205.0	202.6	199.0	194.2	191.8	190.6	190.6	191.8	191.8	193.0
30°	231.6	229.2	226.7	221.9	217.1	213.5	213.5	214.7	218.3	220.7	220.7
32.5°	261.7	260.5	256.9	252.1	243.6	241.2	243.6	250.9	255.7	259.3	261.7
35°	296.7	295.5	290.7	282.2	276.2	275.0	282.2	294.3	310.0	314.8	317.2
37.5°	335.3	336.5	330.5	320.8	314.8	317.2	331.7	354.6	370.3	381.1	383.5
40°	383.5	385.9	378.7	367.9	361.8	371.5	394.4	420.9	448.7	461.9	465.5
42.5°	440.2	443.8	434.2	423.3	419.7	435.4	468.0	511.4	560.8	576.5	582.5
45°	510.2	512.6	500.5	490.9	488.5	516.2	571.7	644.0	722.4	758.6	764.6
47.5°	593.4	592.2	581.3	569.3	571.7	611.5	694.7	792.4	875.6	931.1	943.1
50°	688.7	682.6	674.2	659.7	675.4	733.3	838.2	956.4	1096.3	1145.8	1167.5
52.5°	783.9	773.1	765.9	756.2	783.9	858.7	1005.9	1212.1	1423.2	1536.5	1559.4
55°	869.6	861.1	857.5	858.7	902.1	1009.5	1202.4	1466.6	1670.4	1764.5	1781.4
57.5°	954.0	949.2	945.6	952.8	1021.5	1161.4	1378.5	1625.8	1793.4	1863.4	1875.4
60°	1033.6	1038.4	1036.0	1057.7	1140.9	1282.0	1470.2	1713.8	1875.4	1939.4	1952.6
62.5°	1121.6	1125.3	1125.3	1149.4	1216.9	1341.1	1532.9	1817.5	2022.6	2116.6	2131.1
65°	1197.6	1200.0	1204.9	1206.1	1268.8	1393.0	1643.9	1912.8	2096.1	2204.7	2214.3
67.5°	1254.3	1256.7	1250.7	1244.7	1292.9	1405.1	1635.4	1900.8	2063.6	2145.6	2152.8
70°	1300.1	1289.3	1272.4	1242.2	1257.9	1342.4	1565.5	1804.3	1968.3	2041.9	2052.7
72.5°	1306.2	1296.5	1243.5	1175.9	1156.6	1230.2	1442.5	1657.1	1798.2	1868.2	1869.4
75°	1270.0	1244.7	1156.6	1055.3	1019.1	1089.1	1271.2	1466.6	1579.9	1639.0	1645.1
77.5°	1148.2	1124.1	1013.1	897.3	856.3	916.6	1071.0	1229.0	1337.5	1395.4	1399.0
80°	932.3	923.8	822.5	716.4	667.0	701.9	837.0	961.2	1049.3	1118.0	1124.1
82.5°	687.5	680.2	603.0	510.2	470.4	499.3	595.8	687.5	769.5	824.9	828.6
85°	429.4	414.9	366.6	301.5	275.0	294.3	358.2	419.7	493.3	536.7	539.1
87.5°	143.5	137.5	118.2	97.7	82.0	85.6	104.9	127.8	186.9	206.2	218.3
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)