

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: P821158

Luminaire Tested: **TT-D3-830-24VDC-WQ**

Issue Date: 2/18/2020

Test Information

Test Method: LM-79-08
Report Number: P821158
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1908-473-14)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/18/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-D3-830-24VDC-WQ
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
3000K, 80 CRI LEDS AND WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

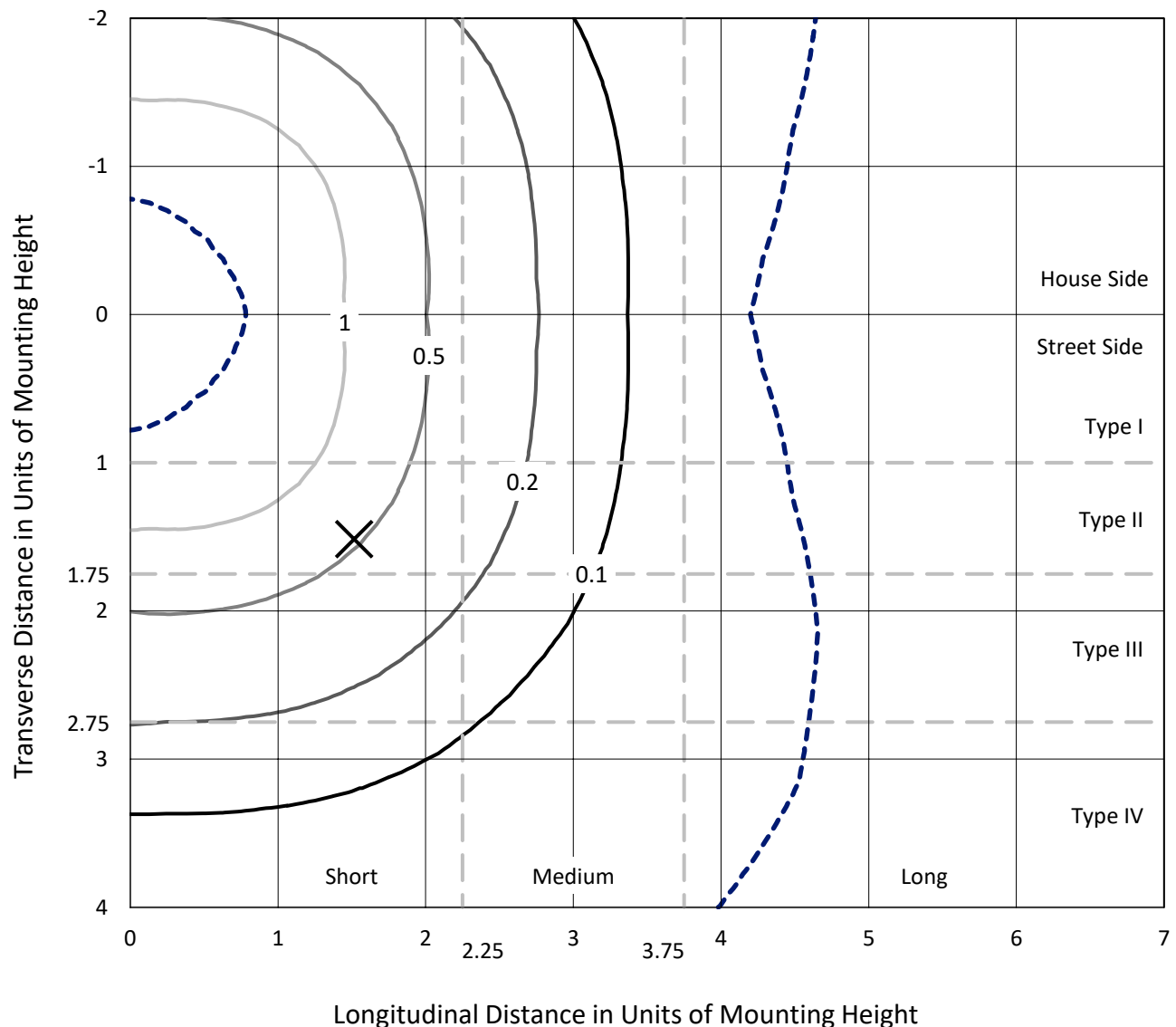
Lumens per Lamp: N/A
Luminaire Lumens: 5662 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 46
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: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

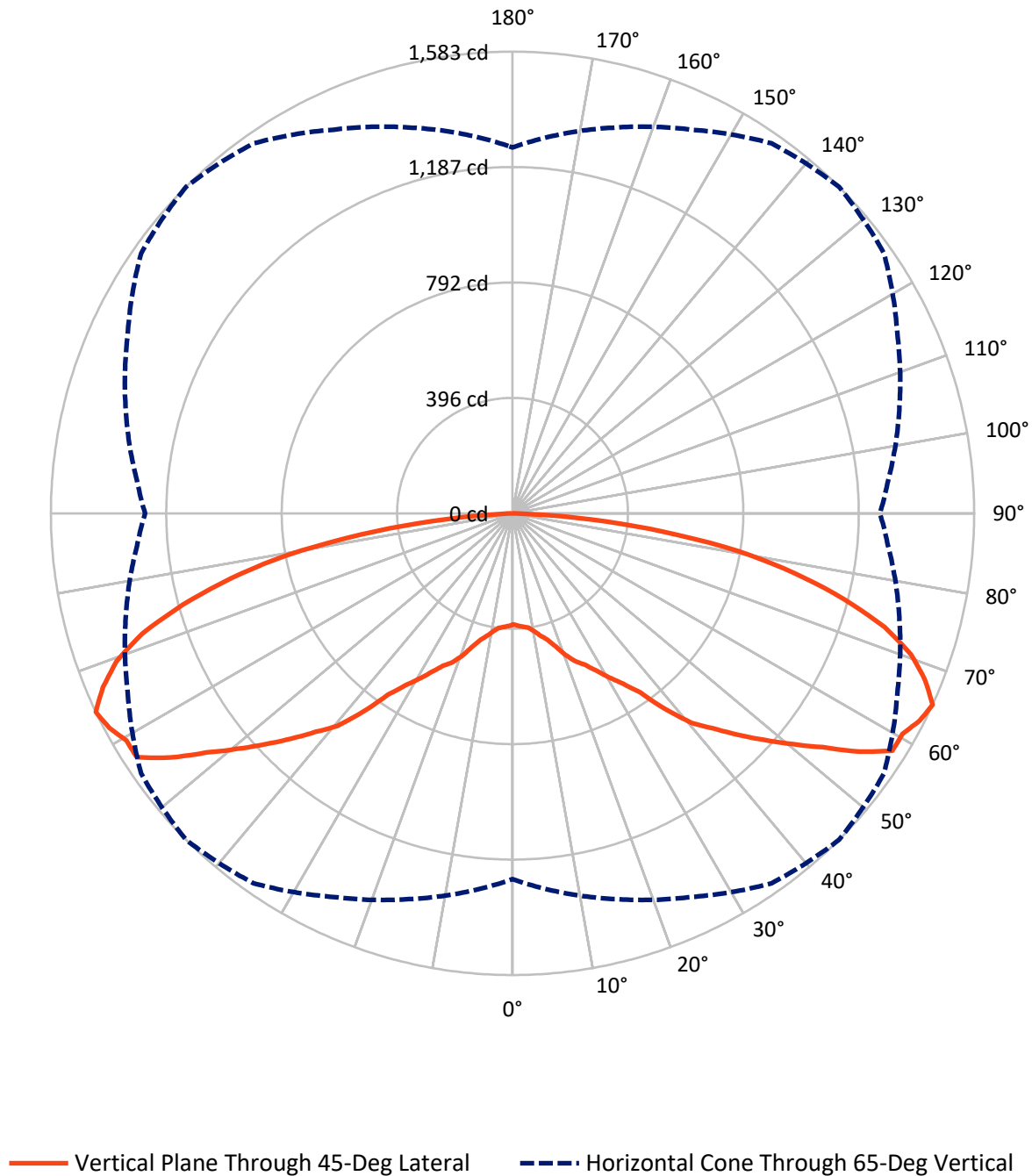
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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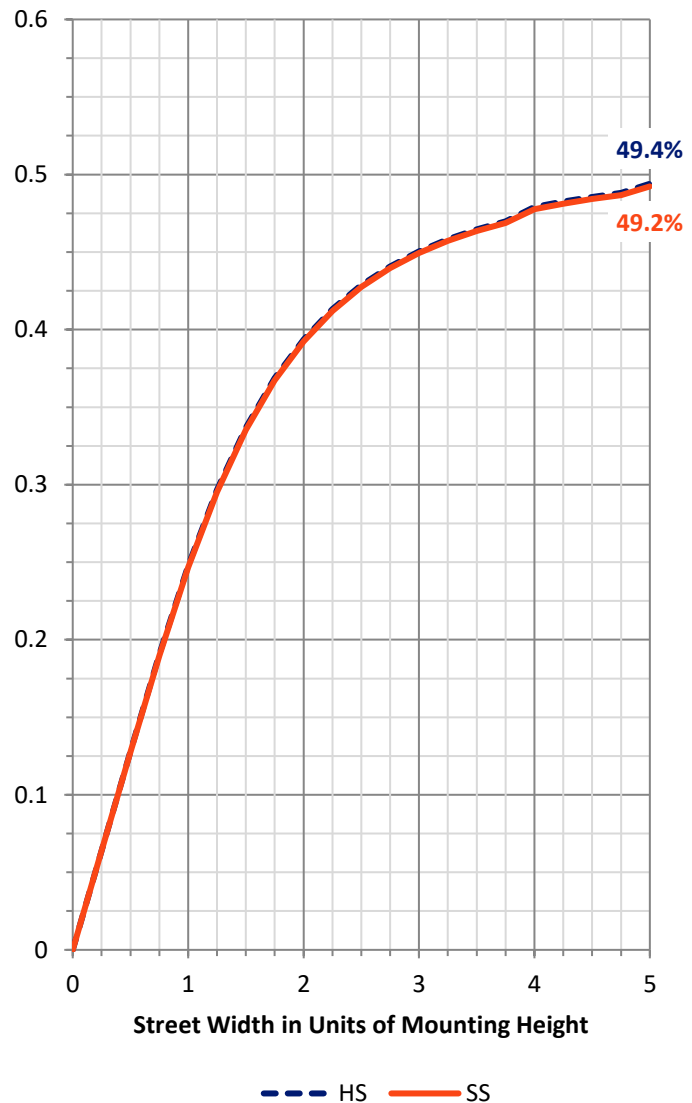
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2831.0	0.0	2831.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2831.0	0.0	2831.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	5662.0	0.0	5662.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.0	0.7
10°-20°	130.7	2.3
20°-30°	268.4	4.7
30°-40°	476.8	8.4
40°-50°	803.7	14.2
50°-60°	1185.6	20.9
60°-70°	1391.4	24.6
70°-80°	1084.0	19.1
80°-90°	283.4	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°	5662.0	100.0
0°-180°	5662.0	100.0



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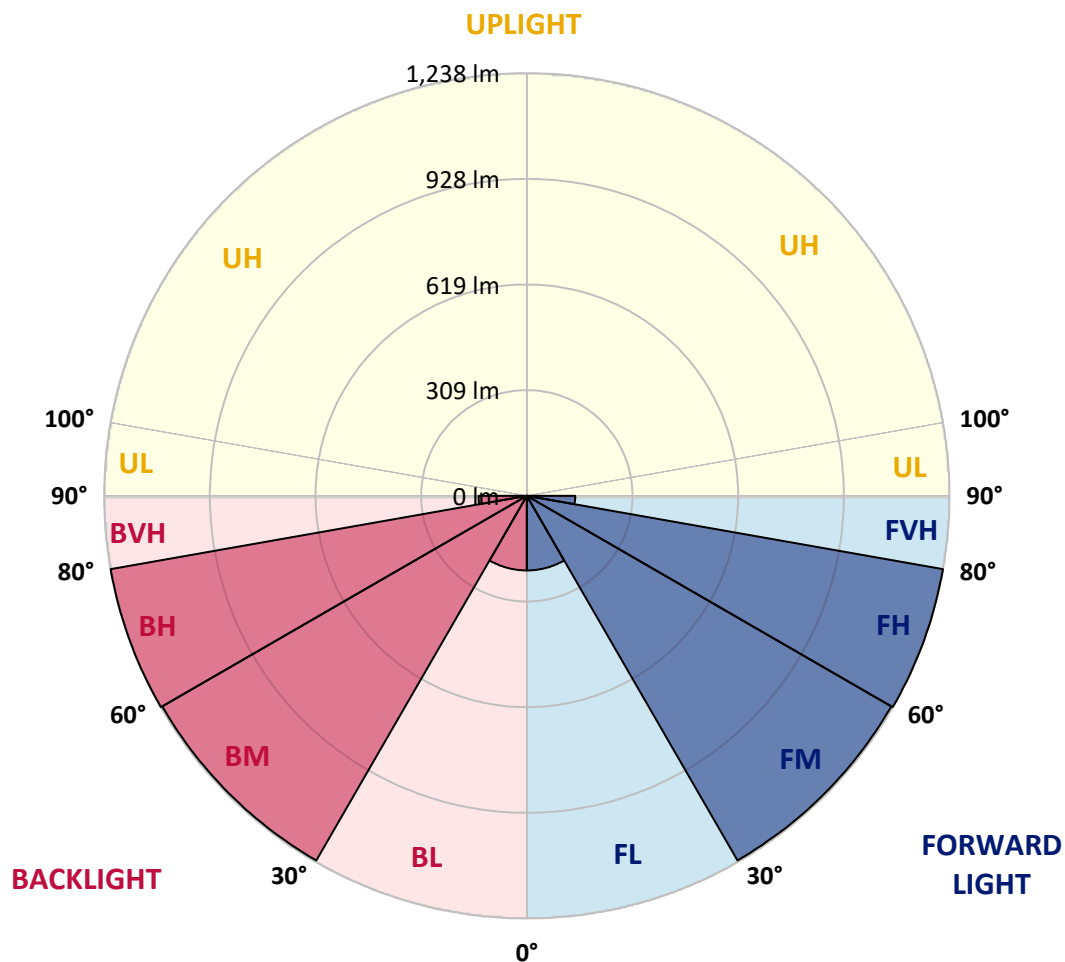
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	218.5	3.9			
FM	(30°-60°)	1233.0	21.8			
FH	(60°-80°)	1237.7	21.9			G1/1800
FVH	(80°-90°)	141.7	2.5			G2/225
BL	(0°-30°)	218.5	3.9	B1/500		
BM	(30°-60°)	1233.0	21.8	B2/2500		
BH	(60°-80°)	1237.7	21.9	B3/2500		G1/1800
BVH	(80°-90°)	141.7	2.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	381.1	381.1	381.1	381.1	381.1	381.1	381.1	381.1	381.1	381.1	381.1
2.5°	387.3	387.3	387.3	386.4	386.4	386.4	386.4	387.3	387.3	387.3	387.3
5°	396.2	396.2	394.4	392.6	390.9	390.9	391.8	392.6	393.5	395.3	395.3
7.5°	401.5	401.5	400.7	398.9	396.2	396.2	397.1	398.9	399.8	399.8	398.9
10°	408.7	409.6	412.2	413.1	411.3	411.3	412.2	413.1	411.3	408.7	408.7
12.5°	425.6	426.5	430.0	432.7	432.7	430.9	431.8	433.6	429.1	424.7	425.6
15°	449.6	449.6	450.5	453.2	451.4	449.6	451.4	452.3	449.6	448.7	450.5
17.5°	481.7	481.7	476.3	480.8	481.7	480.8	482.6	478.1	475.4	479.0	480.8
20°	516.4	512.8	510.2	513.7	520.9	518.2	521.7	512.0	509.3	511.1	512.0
22.5°	538.7	541.3	543.1	544.9	554.7	551.1	554.7	544.0	542.2	538.7	536.0
25°	565.4	568.0	578.7	573.4	579.6	574.3	578.7	572.5	576.1	565.4	565.4
27.5°	595.6	601.0	607.2	604.5	612.6	609.9	612.6	603.7	604.5	600.1	598.3
30°	636.6	636.6	634.8	640.2	654.4	652.6	653.5	641.9	633.9	634.8	638.4
32.5°	677.6	672.2	674.9	690.9	699.8	696.3	698.0	692.7	674.9	671.3	674.0
35°	715.8	723.9	730.1	743.4	755.9	754.1	753.2	744.3	732.8	718.5	714.1
37.5°	775.5	784.4	801.3	825.4	847.6	852.1	840.5	828.9	802.2	781.7	771.0
40°	853.8	854.7	874.3	920.6	941.1	944.7	938.4	918.8	877.9	854.7	853.8
42.5°	922.4	916.2	948.2	987.4	1006.1	1007.9	1003.4	987.4	948.2	915.3	921.5
45°	975.8	975.8	1014.1	1045.3	1075.5	1082.7	1074.7	1040.8	1015.0	976.7	974.0
47.5°	1024.8	1038.1	1070.2	1108.5	1151.2	1161.0	1151.2	1111.2	1067.5	1039.0	1023.9
50°	1083.6	1099.6	1122.7	1182.4	1230.5	1243.8	1229.6	1185.9	1122.7	1098.7	1089.8
52.5°	1152.1	1165.5	1202.0	1276.8	1312.4	1332.0	1320.4	1278.5	1203.8	1167.3	1160.1
55°	1234.0	1221.6	1278.5	1350.7	1416.5	1442.4	1419.2	1352.4	1287.4	1221.6	1234.0
57.5°	1275.9	1261.6	1341.8	1410.3	1502.0	1535.9	1507.4	1415.7	1341.8	1266.1	1275.0
60°	1279.4	1285.7	1346.2	1458.4	1521.6	1535.9	1527.0	1466.4	1348.9	1291.0	1274.1
62.5°	1268.8	1307.0	1358.7	1474.4	1531.4	1566.1	1535.9	1476.2	1364.0	1313.3	1269.6
65°	1254.5	1292.8	1369.4	1451.3	1548.3	1583.0	1554.6	1455.7	1372.9	1292.8	1259.8
67.5°	1229.6	1216.2	1310.6	1420.1	1504.7	1525.2	1507.4	1421.9	1309.7	1214.4	1232.2
70°	1150.3	1138.8	1219.8	1340.0	1421.0	1449.5	1428.1	1341.8	1221.6	1141.4	1152.1
72.5°	1032.8	1036.4	1114.7	1229.6	1316.8	1334.6	1323.1	1228.7	1119.2	1040.8	1026.6
75°	895.7	904.6	979.4	1083.6	1162.8	1173.5	1161.9	1088.0	978.5	909.9	891.2
77.5°	736.3	749.7	810.2	914.4	966.9	991.0	972.3	917.1	814.7	753.2	734.5
80°	570.7	575.2	617.9	701.6	771.0	787.1	769.3	704.3	623.2	576.9	563.6
82.5°	373.9	381.1	419.4	483.5	528.9	524.4	528.9	478.1	423.8	379.3	357.0
85°	166.5	180.7	206.6	236.8	266.2	274.2	266.2	240.4	206.6	177.2	173.6
87.5°	11.6	13.4	16.0	16.9	18.7	14.2	14.2	14.2	12.5	14.2	11.6
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)