

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: P197559

Luminaire Tested: **TT-C1-LED-E1-CQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197559
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33411)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C1-LED-E1-CQ-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
CONCENTRATED DISTRIBUTION
Light Source: (168) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3771.4 lumens
Efficiency: N/A
Efficacy: 134.7 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 28
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

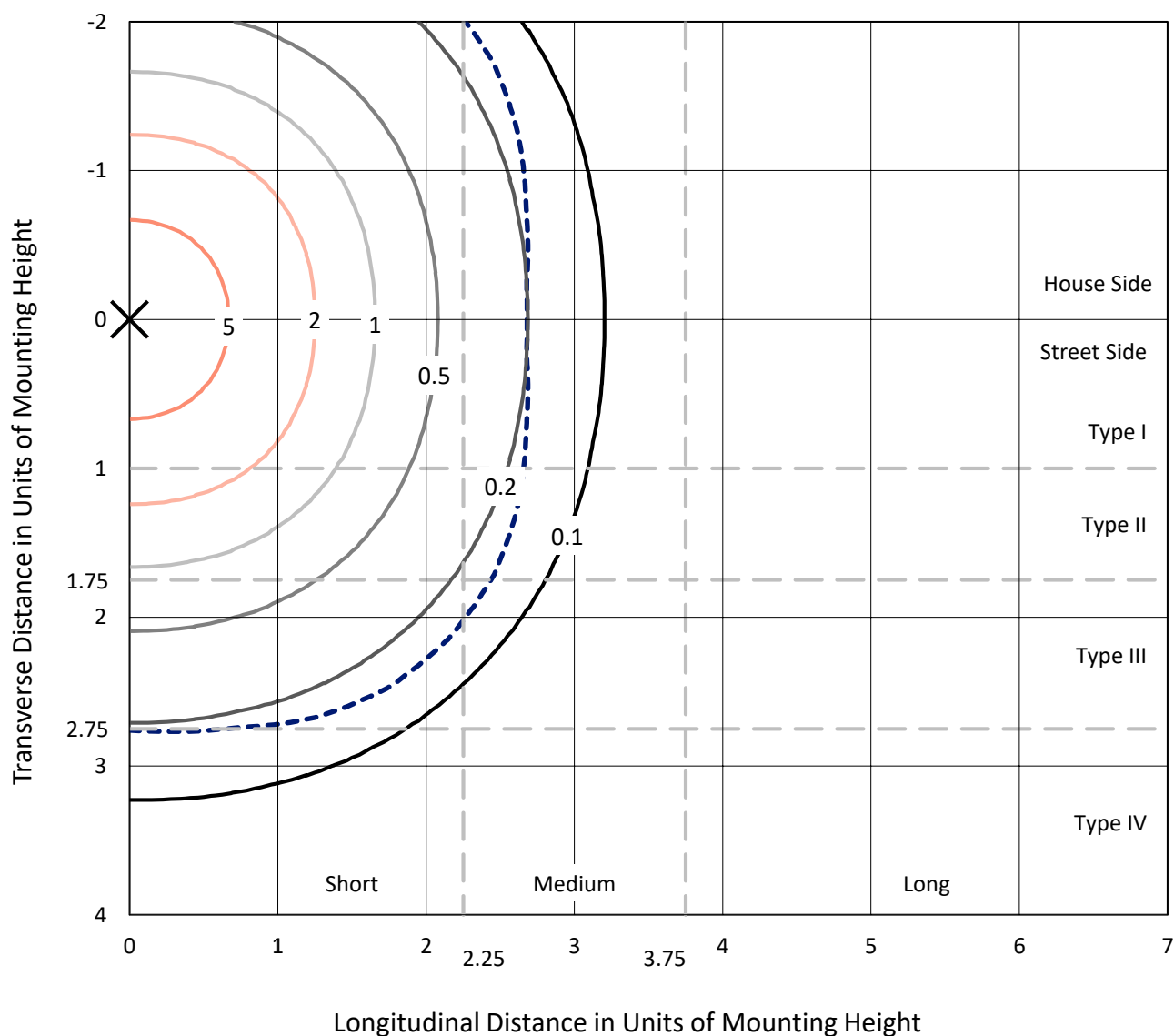


REPORT NUMBER: P197559

CATALOG NUMBER: TT-C1-LED-E1-CQ-7050

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

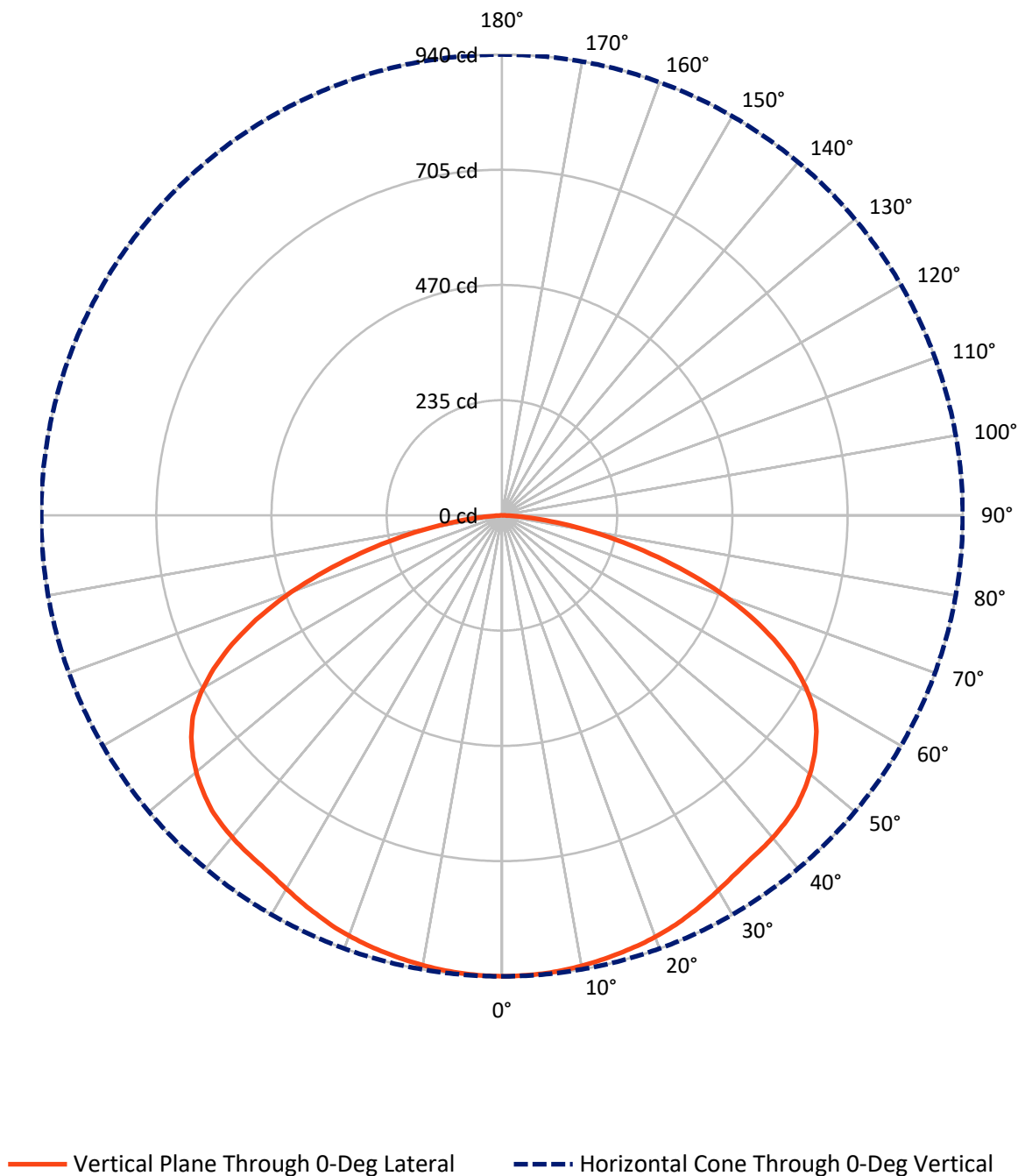


Based on 10 foot mounting height. Maximum calculated value = 9.4 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P197559

CATALOG NUMBER: TT-C1-LED-E1-CQ-7050

Luminous Intensity Polar Plot



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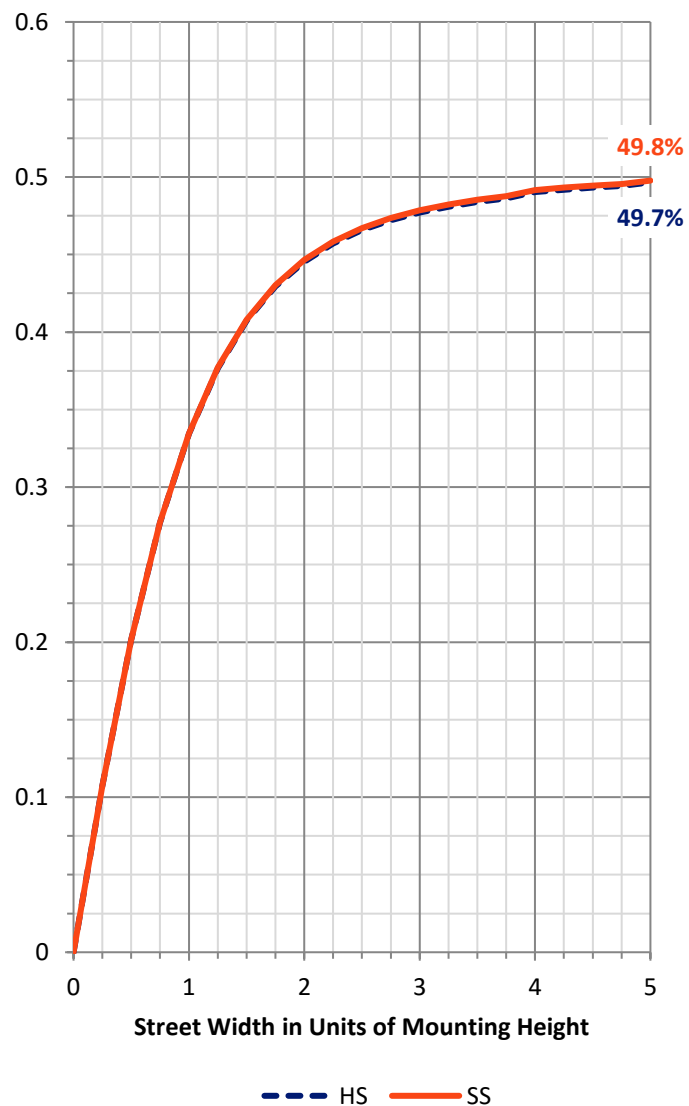
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1885.7	0.0	1885.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1885.7	0.0	1885.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	3771.4	0.0	3771.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.3	2.4
10°-20°	261.6	6.9
20°-30°	416.1	11.0
30°-40°	550.3	14.6
40°-50°	671.5	17.8
50°-60°	725.2	19.2
60°-70°	628.0	16.7
70°-80°	356.1	9.4
80°-90°	73.2	1.9
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°	3771.4	100.0
0°-180°	3771.4	100.0

Coefficient of Utilization



REPORT NUMBER: P197559

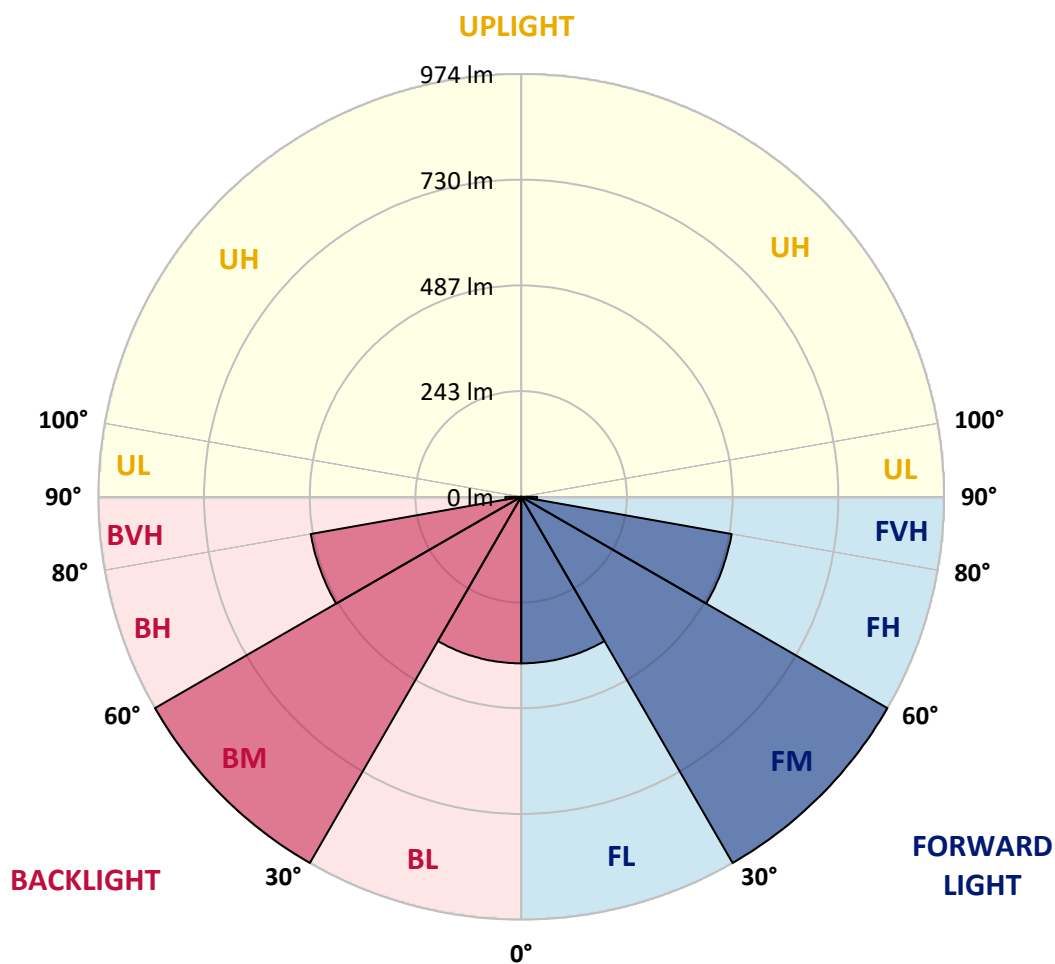
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	383.5	10.2			
FM	(30°-60°)	973.5	25.8			
FH	(60°-80°)	492.1	13.0			G0/660
FVH	(80°-90°)	36.6	1.0			G1/100
BL	(0°-30°)	383.5	10.2	B1/500		
BM	(30°-60°)	973.5	25.8	B1/1000		
BH	(60°-80°)	492.1	13.0	B1/500		G0/660
BVH	(80°-90°)	36.6	1.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type V Short



REPORT NUMBER: P197559

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	939.9	939.9	939.9	939.9	939.9	939.9	939.9	939.9	939.9	939.9	939.9
2.5°	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2
5°	937.9	937.9	937.9	937.9	937.9	937.9	937.9	937.9	937.9	937.9	937.9
7.5°	935.3	935.3	935.3	935.3	935.3	936.0	935.3	935.3	935.3	935.3	936.0
10°	932.1	932.1	932.7	932.7	932.1	932.1	932.1	932.1	932.1	932.1	932.1
12.5°	928.2	928.2	928.2	928.2	928.2	928.2	928.2	928.2	927.6	927.6	927.6
15°	923.7	923.7	923.7	924.3	924.3	924.3	924.3	923.7	923.0	922.4	923.0
17.5°	919.1	919.1	919.8	920.4	920.4	920.4	920.4	919.1	918.5	917.8	917.8
20°	913.3	913.9	913.9	914.6	915.2	915.2	915.2	914.6	913.3	912.0	912.0
22.5°	906.8	907.4	908.1	908.7	909.4	908.7	908.7	908.1	906.8	906.1	905.5
25°	898.3	898.3	899.6	900.9	901.6	901.6	901.6	900.3	899.0	898.3	897.7
27.5°	889.9	889.9	891.2	893.2	893.8	894.5	893.2	892.5	890.6	889.3	889.3
30°	880.8	880.8	882.8	885.4	887.3	888.0	887.3	884.7	882.1	880.8	880.8
32.5°	872.4	873.0	875.0	878.9	882.1	883.4	882.8	879.5	876.3	873.7	873.0
35°	865.9	866.5	870.4	875.0	880.2	882.1	880.2	876.9	871.7	867.8	867.8
37.5°	862.0	862.0	867.2	875.0	880.8	883.4	880.8	876.3	869.1	863.9	863.9
40°	857.5	858.8	865.2	875.0	883.4	887.3	884.1	877.6	868.5	862.0	861.3
42.5°	851.6	853.6	860.7	873.7	884.1	889.9	886.7	878.9	867.8	860.7	860.0
45°	843.8	844.5	853.6	869.1	882.8	890.6	888.0	878.2	865.9	857.5	856.2
47.5°	831.5	832.8	843.8	862.0	878.9	887.3	885.4	874.3	858.8	849.0	847.1
50°	817.2	818.5	831.5	852.3	871.1	880.8	877.6	863.9	847.1	834.1	832.8
52.5°	799.7	802.3	816.6	839.9	860.0	869.1	863.9	846.4	826.9	812.7	811.4
55°	778.3	780.9	797.1	821.8	841.9	849.0	841.9	821.1	800.3	784.1	780.9
57.5°	751.7	753.6	769.2	795.1	814.6	820.5	811.4	789.9	765.3	747.8	745.8
60°	712.7	715.3	733.5	757.5	777.0	784.1	775.0	749.1	722.4	704.9	704.3
62.5°	666.0	670.5	686.1	712.1	729.6	739.3	727.0	700.4	673.8	653.6	653.6
65°	609.5	612.7	629.6	654.9	671.8	680.3	667.9	643.3	614.0	596.5	594.6
67.5°	544.6	547.2	562.1	588.1	606.3	613.4	599.8	576.4	549.1	530.3	528.4
70°	472.5	476.4	487.5	511.5	527.7	531.6	521.2	499.2	474.5	457.6	456.3
72.5°	394.0	397.2	411.5	430.3	443.3	444.6	438.1	421.9	396.6	383.0	381.0
75°	313.5	318.7	331.0	347.3	357.0	357.0	353.1	341.4	319.4	309.0	309.0
77.5°	237.6	240.2	253.1	264.2	272.0	275.9	271.3	260.9	243.4	236.3	232.4
80°	165.5	168.1	174.0	182.4	190.2	192.8	187.6	179.1	169.4	164.2	161.6
82.5°	101.3	103.9	107.1	111.6	116.8	119.4	116.2	111.0	102.6	101.9	101.3
85°	48.7	50.0	52.6	53.9	56.5	57.1	57.8	55.2	52.6	49.3	50.6
87.5°	14.9	14.9	15.6	16.2	17.5	17.5	17.5	16.9	15.6	14.9	14.9
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)