

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: P198014

Luminaire Tested: **TT-C1-LED-E1-RW-CG-LWR-LW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198014
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34697)
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-RW-CG-LWR-LW
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
RECTANGULAR DISTRIBUTION WITH CLEAR GLASS LENS AND LumaWatt WIRELESS
SENSOR
Light Source: (168) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2677.1 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

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



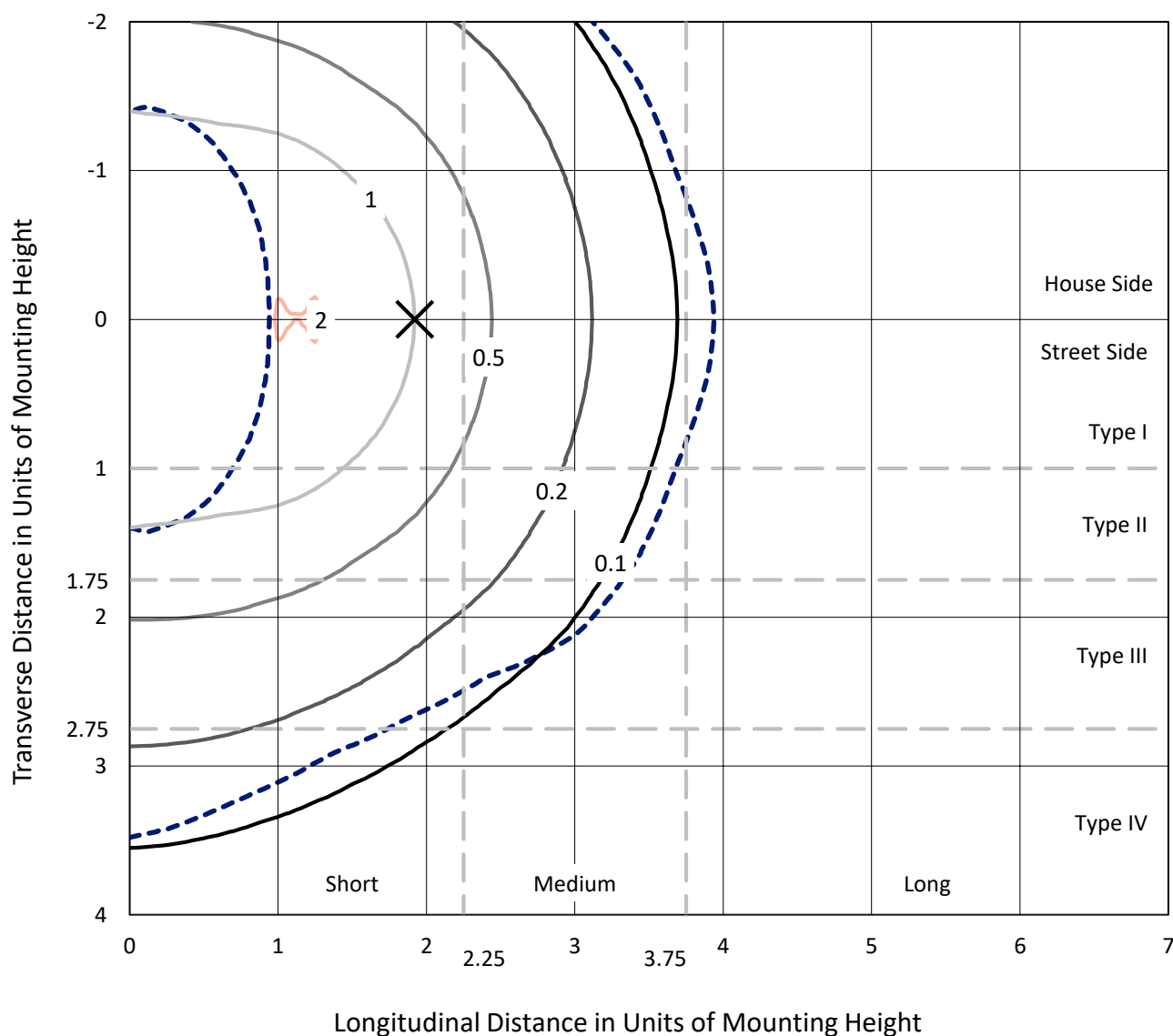
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

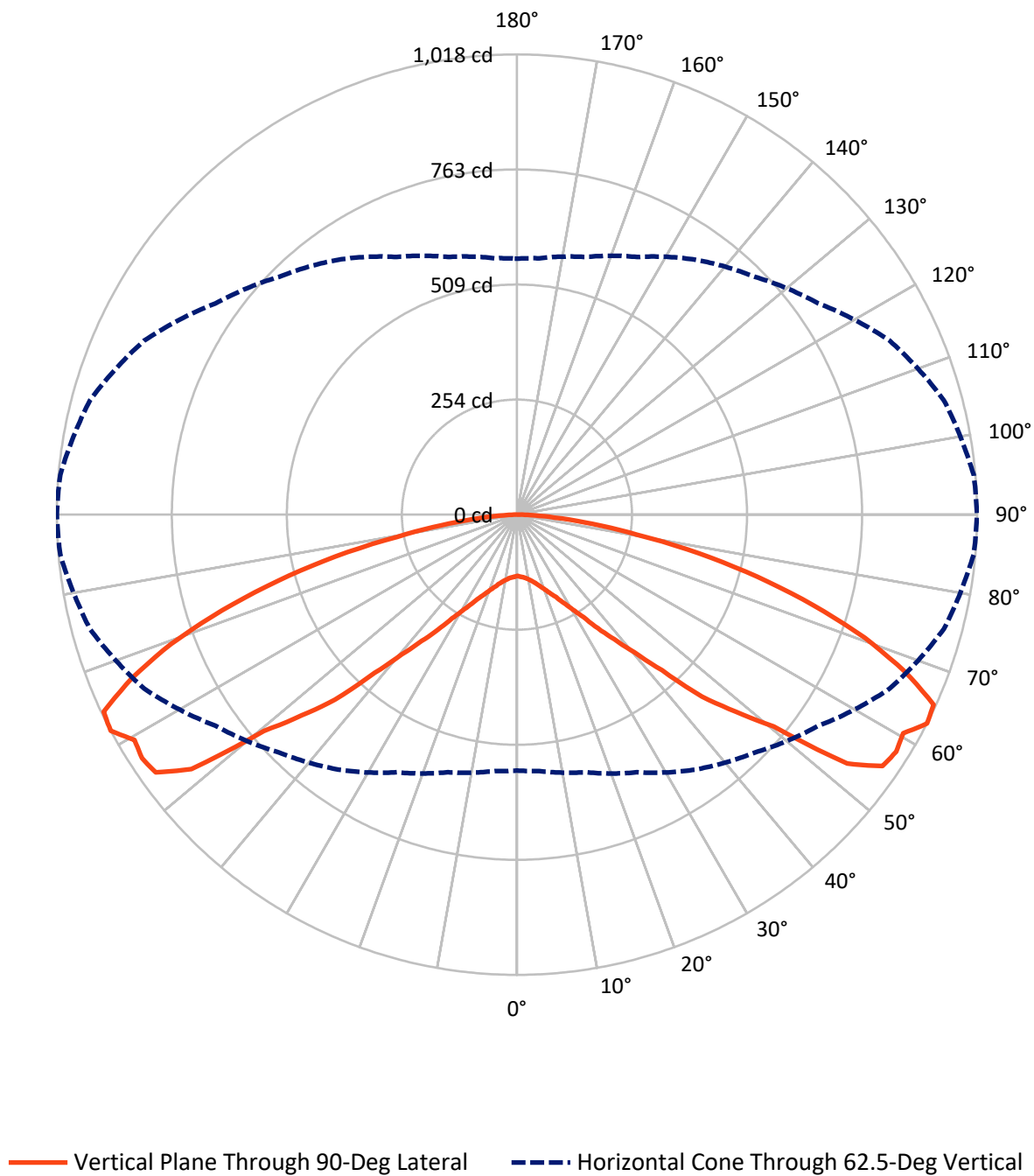


Based on 10 foot mounting height. Maximum calculated value = 2 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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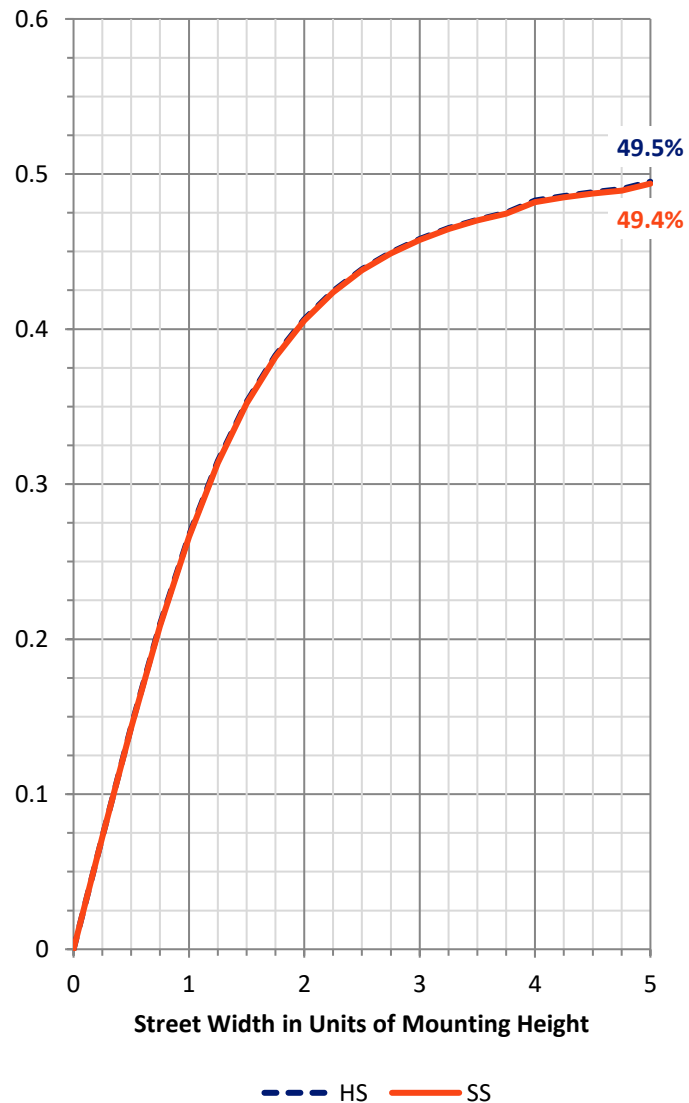
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1338.6	0.0	1338.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1338.6	0.0	1338.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	2677.1	0.0	2677.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.5	0.5
10°-20°	46.1	1.7
20°-30°	98.5	3.7
30°-40°	191.5	7.2
40°-50°	361.0	13.5
50°-60°	616.9	23.0
60°-70°	742.9	27.7
70°-80°	499.9	18.7
80°-90°	106.9	4.0
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°	2677.1	100.0
0°-180°	2677.1	100.0

Coefficient of Utilization



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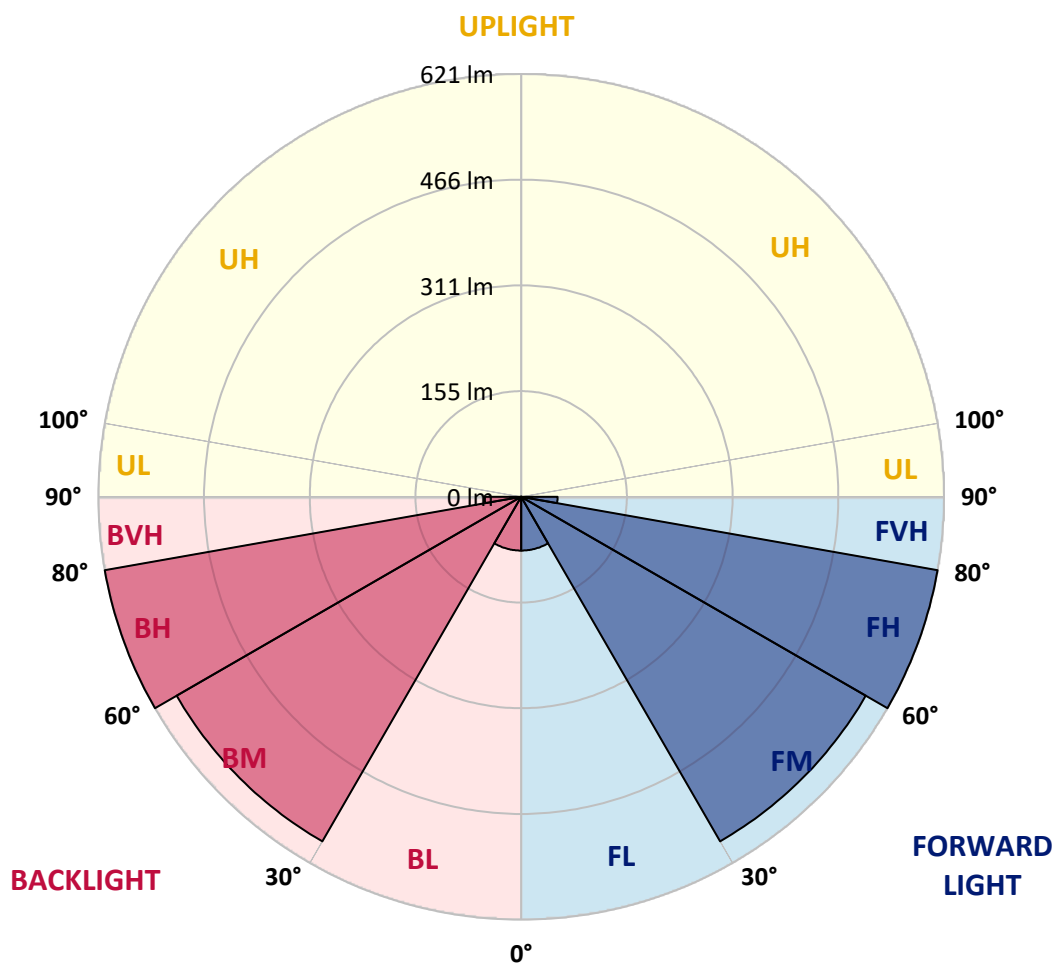
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	79.0	3.0			
FM	(30°-60°)	584.7	21.8			
FH	(60°-80°)	621.4	23.2			G0/660
FVH	(80°-90°)	53.5	2.0			G1/100
BL	(0°-30°)	79.0	3.0	B0/110		
BM	(30°-60°)	584.7	21.8	B1/1000		
BH	(60°-80°)	621.4	23.2	B2/1000		G2/1000
BVH	(80°-90°)	53.5	2.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	135.4	135.4	135.4	135.4	135.4	135.4	135.4	135.4	135.4	135.4	135.4
2.5°	136.6	136.6	136.6	136.6	136.6	136.6	137.2	137.2	137.2	137.2	137.2
5°	138.5	138.5	139.1	139.1	139.7	139.7	139.7	139.7	139.1	139.1	139.1
7.5°	141.6	141.6	142.3	142.9	142.9	142.3	142.3	141.6	141.6	141.6	141.6
10°	146.6	146.6	147.3	147.3	146.6	146.6	146.6	146.0	146.0	146.0	146.0
12.5°	152.3	152.9	153.5	152.9	152.3	151.7	151.7	151.0	151.0	151.0	151.0
15°	160.4	161.7	161.1	161.1	160.4	159.2	158.5	157.9	157.9	157.9	157.9
17.5°	173.0	173.0	171.1	169.8	168.6	167.9	167.3	166.7	166.7	166.7	166.7
20°	186.1	185.5	183.6	181.7	179.9	179.2	177.3	176.7	177.3	176.7	176.7
22.5°	201.8	201.2	198.7	196.8	194.3	191.8	191.1	189.3	188.6	188.0	188.6
25°	217.5	218.1	216.2	214.3	210.6	208.1	205.5	204.3	203.0	202.4	202.4
27.5°	235.6	236.9	235.6	231.9	228.1	226.2	222.5	221.2	220.6	221.2	221.2
30°	255.1	255.7	253.8	251.9	248.2	243.8	241.3	241.9	241.9	243.8	243.1
32.5°	278.9	278.2	275.7	274.5	270.7	267.0	265.7	266.3	268.8	270.1	270.1
35°	305.2	303.3	300.8	298.3	295.2	292.7	293.3	298.3	305.8	307.7	308.9
37.5°	331.5	328.4	328.4	324.6	322.1	324.0	327.7	337.1	342.8	351.6	349.7
40°	355.9	356.6	355.3	352.2	351.6	357.8	366.0	377.9	392.3	401.1	400.4
42.5°	378.5	384.1	380.4	381.0	384.1	394.2	407.3	430.5	459.3	470.6	470.6
45°	403.6	410.5	407.3	409.2	418.0	433.7	461.9	507.6	547.1	574.0	574.0
47.5°	429.3	435.5	434.3	438.0	453.7	481.3	524.5	581.5	621.0	647.3	651.1
50°	461.9	459.3	460.0	469.4	496.3	536.4	591.6	648.0	713.1	728.8	736.3
52.5°	490.1	482.5	486.9	502.6	541.4	588.4	656.7	756.4	846.6	909.3	914.3
55°	513.2	507.6	516.4	538.3	588.4	650.5	739.5	861.7	936.2	974.5	981.4
57.5°	533.3	530.8	545.2	573.4	637.3	713.1	803.4	902.4	954.4	983.9	988.9
60°	551.5	553.3	569.0	606.6	675.5	745.1	817.8	901.1	953.2	976.3	981.4
62.5°	565.9	569.0	589.7	628.5	688.1	743.8	814.0	909.9	977.6	1013.9	1017.7
65°	575.3	578.4	601.6	628.5	684.3	738.2	837.2	918.7	968.8	1005.8	1012.7
67.5°	576.5	580.9	594.7	617.3	664.3	711.9	797.1	856.0	896.1	918.7	925.0
70°	569.0	567.8	572.8	582.2	610.4	643.0	715.0	758.9	787.7	810.9	816.5
72.5°	540.2	538.3	526.4	515.7	526.4	552.1	614.1	643.6	663.0	681.8	685.6
75°	485.0	476.3	446.8	431.8	428.6	451.2	498.8	517.6	525.1	546.5	549.0
77.5°	387.9	384.1	359.1	332.8	330.3	344.0	380.4	388.5	382.3	405.5	412.3
80°	283.3	278.2	254.4	235.0	230.0	239.4	260.7	262.6	258.2	269.5	269.5
82.5°	181.1	176.1	166.1	151.7	141.0	146.6	162.9	162.9	162.9	166.1	167.9
85°	93.4	91.5	84.0	77.1	73.3	74.6	80.2	80.8	84.0	85.9	83.3
87.5°	26.3	27.6	26.3	23.2	22.6	21.9	24.4	25.1	26.9	28.2	29.5
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)