

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: P543218

Luminaire Tested: **TT-D9-830-U-5CQ-PM**

Issue Date: 6/22/2021

Test Information

Test Method: LM-79-08
Report Number: P543218
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2012-100-10)
Test Lab: INNOVATION CENTER
Issue Date: 6/22/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-D9-830-U-5CQ-PM
Description: TOPTIER LED SITE LUMINAIRE
3000K, 80 CRI LEDS AND CONCENTRATED DISTRIBUTION
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16430 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

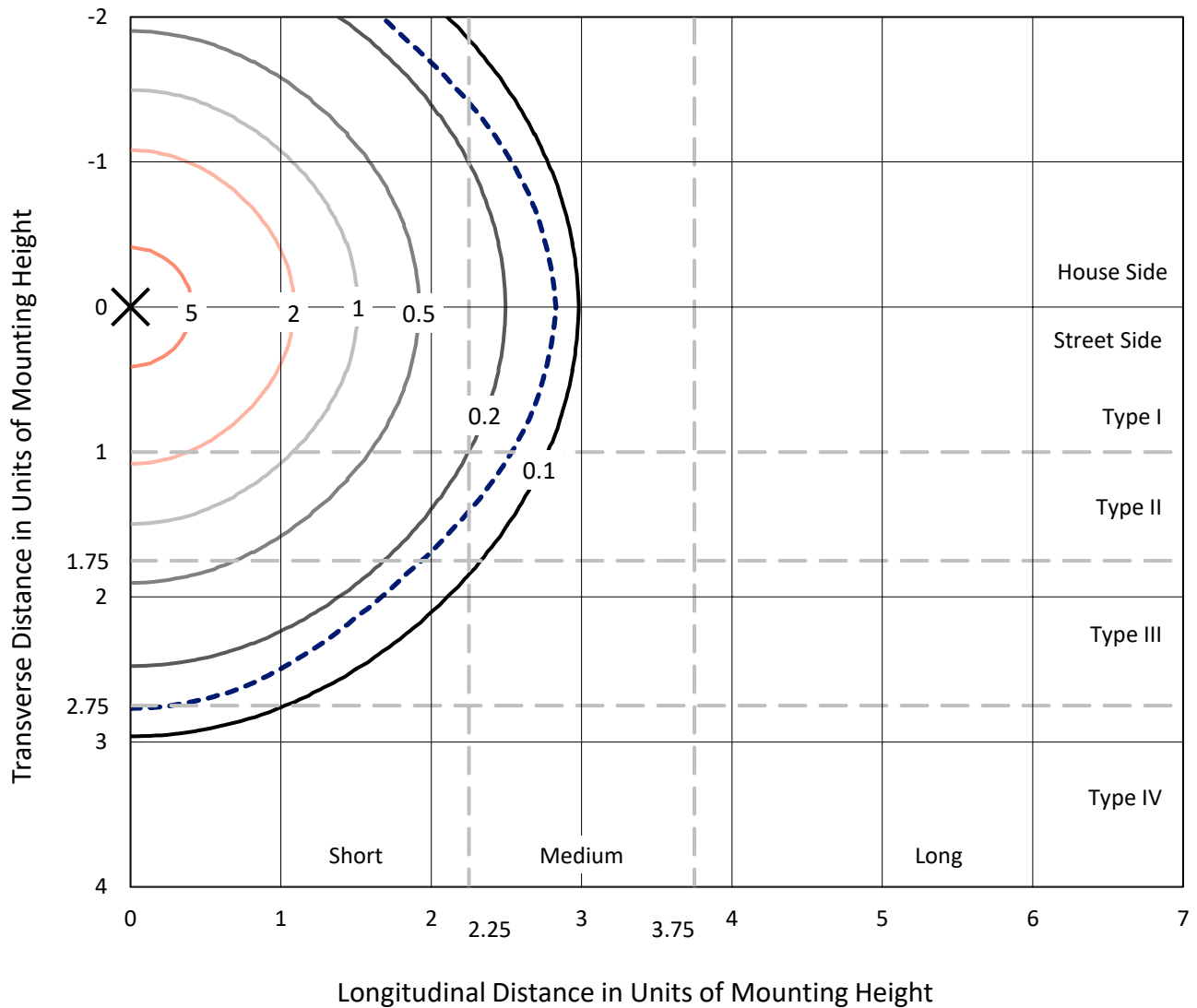
Input Watts (W): 173.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

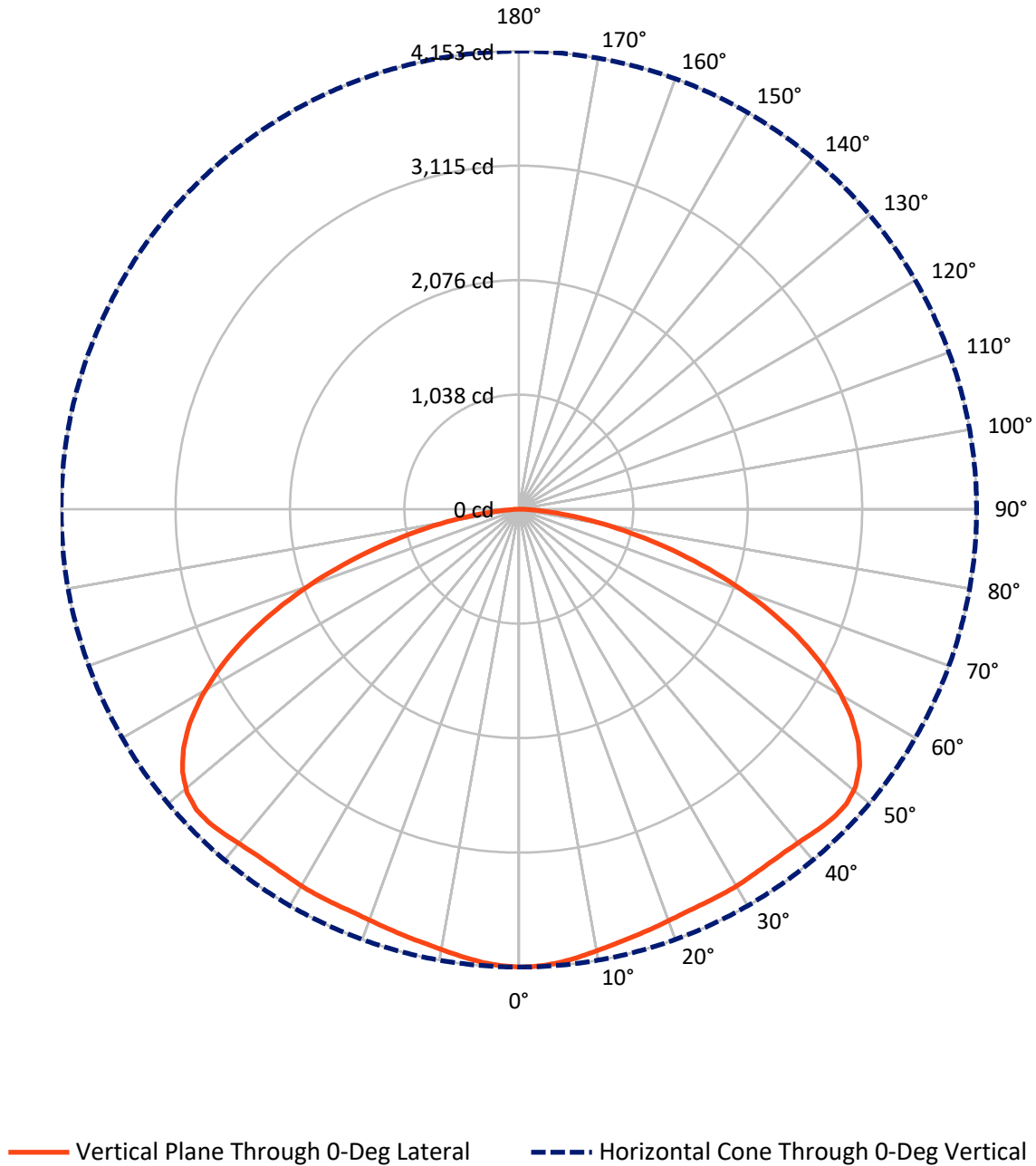
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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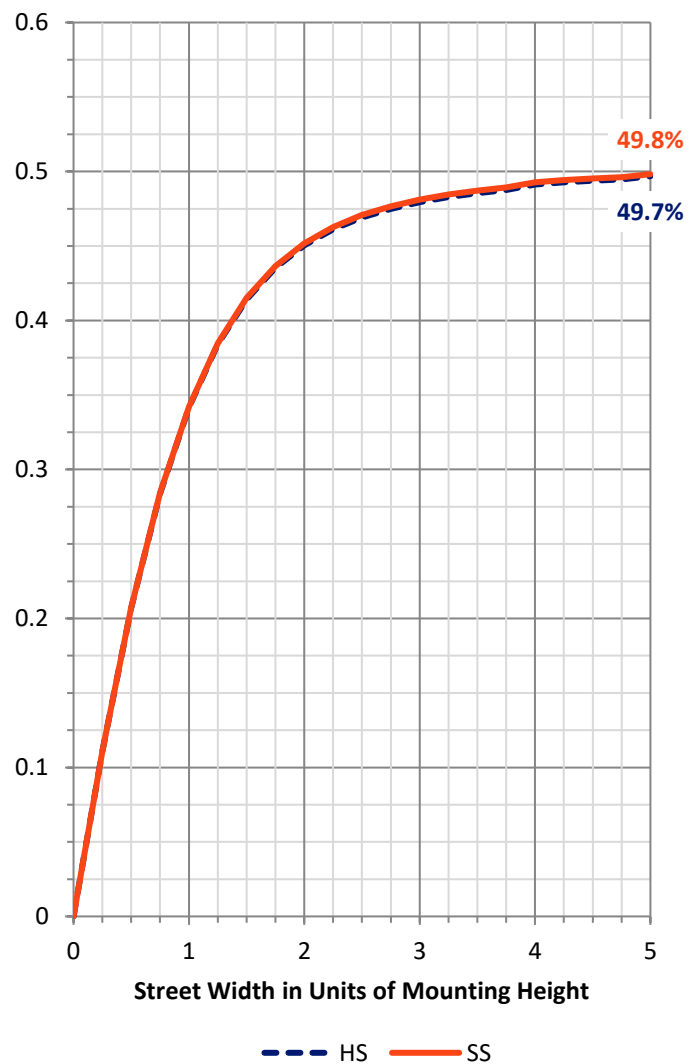
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8215.0	0.0	8215.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8215.0	0.0	8215.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16430.0	0.0	16430.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.3	2.4
10°-20°	1133.2	6.9
20°-30°	1821.2	11.1
30°-40°	2452.0	14.9
40°-50°	3033.8	18.5
50°-60°	3254.5	19.8
60°-70°	2652.2	16.1
70°-80°	1414.8	8.6
80°-90°	277.0	1.7
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°	16430.0	100.0
0°-180°	16430.0	100.0

Coefficient of Utilization



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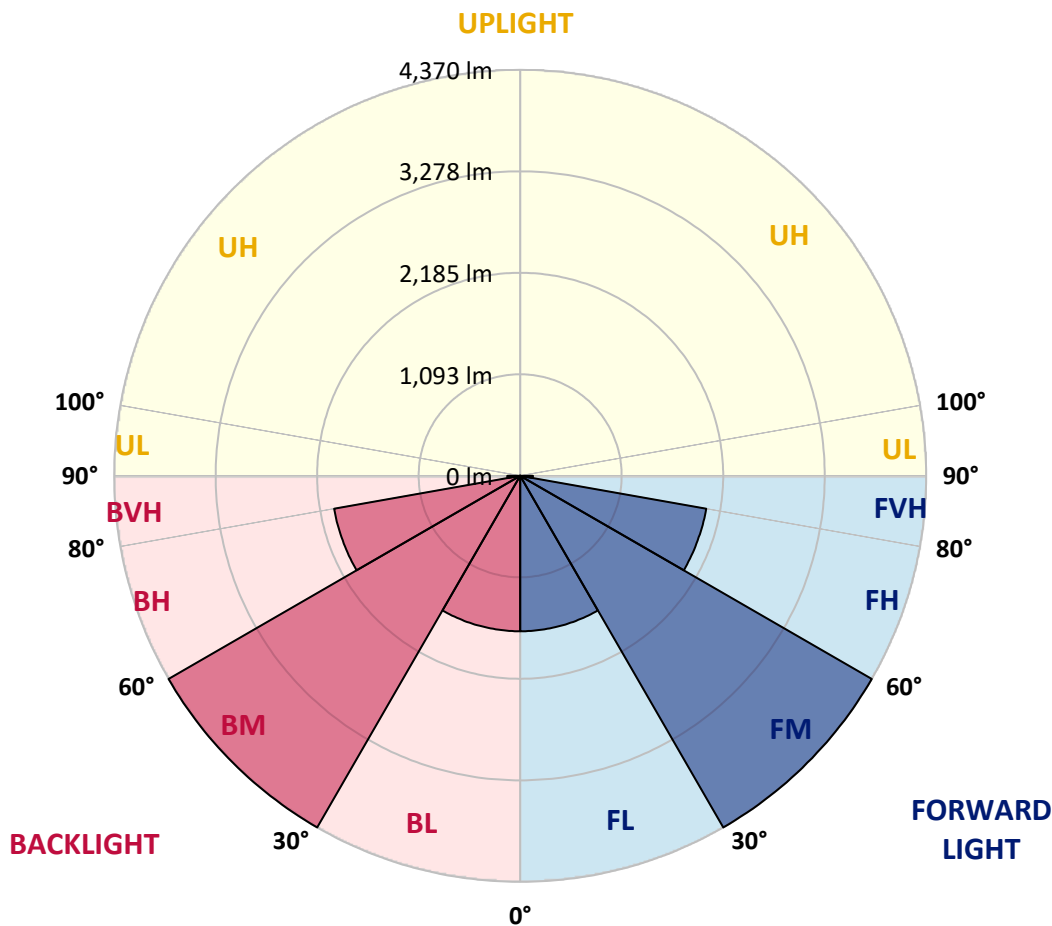
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1672.8	10.2			
FM (30°-60°)	4370.2	26.6			
FH (60°-80°)	2033.5	12.4			G2/5000
FVH (80°-90°)	138.5	0.8			G2/225
BL (0°-30°)	1672.8	10.2	B3/2500		
BM (30°-60°)	4370.2	26.6	B3/5000		
BH (60°-80°)	2033.5	12.4	B3/2500		G2/5000
BVH (80°-90°)	138.5	0.8			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°	4152.9	4152.9	4152.9	4152.9	4152.9	4152.9	4152.9	4152.9	4152.9	4152.9	4152.9
2.5°	4145.4	4145.4	4144.7	4143.2	4140.9	4139.4	4140.1	4142.4	4144.7	4145.4	4146.2
5°	4124.4	4125.9	4123.6	4120.6	4118.3	4117.6	4116.8	4119.9	4122.1	4122.9	4123.6
7.5°	4093.5	4095.8	4094.3	4091.3	4088.3	4086.8	4086.8	4088.3	4090.5	4092.8	4092.8
10°	4060.5	4060.5	4059.7	4056.7	4053.7	4051.5	4052.2	4053.7	4056.7	4059.0	4059.7
12.5°	4031.2	4031.9	4029.7	4025.1	4020.6	4018.4	4018.4	4022.1	4026.6	4028.9	4030.4
15°	4008.6	4009.4	4007.1	4000.3	3995.1	3993.6	3995.1	3998.1	4002.6	4005.6	4006.4
17.5°	3987.6	3988.3	3985.3	3977.8	3973.3	3971.0	3971.0	3975.5	3981.5	3983.8	3984.6
20°	3968.0	3967.3	3963.5	3955.2	3949.2	3946.2	3947.7	3953.7	3961.3	3965.0	3965.0
22.5°	3953.7	3953.0	3947.7	3938.7	3931.9	3926.7	3929.7	3937.2	3946.2	3953.0	3953.0
25°	3950.7	3949.2	3941.0	3930.4	3919.2	3914.6	3919.2	3929.7	3941.0	3949.2	3950.7
27.5°	3950.0	3947.7	3938.7	3924.4	3913.1	3909.4	3913.1	3925.9	3940.2	3950.0	3950.7
30°	3946.2	3944.7	3932.7	3916.9	3903.4	3898.9	3904.1	3918.4	3934.2	3943.2	3945.5
32.5°	3937.2	3934.9	3922.9	3904.9	3889.8	3883.8	3889.1	3905.6	3921.4	3934.2	3935.7
35°	3932.7	3931.2	3916.2	3893.6	3876.3	3867.3	3874.8	3892.1	3910.9	3925.9	3928.2
37.5°	3936.4	3934.2	3917.7	3891.3	3868.0	3858.3	3865.0	3885.3	3908.6	3925.9	3928.9
40°	3950.7	3947.7	3927.4	3895.9	3865.8	3854.5	3862.8	3888.3	3918.4	3938.0	3943.2
42.5°	3975.5	3972.5	3945.5	3905.6	3868.0	3854.5	3868.0	3901.9	3941.0	3966.5	3970.3
45°	3996.6	3993.6	3962.8	3913.9	3871.1	3855.3	3874.1	3919.9	3971.8	4005.6	4010.1
47.5°	3998.1	3993.6	3956.7	3901.9	3853.8	3839.5	3867.3	3924.4	3989.8	4033.4	4038.7
50°	3959.0	3954.5	3910.9	3850.0	3798.9	3785.4	3827.5	3898.1	3974.8	4024.4	4031.2
52.5°	3871.8	3867.3	3821.4	3753.0	3698.9	3688.4	3740.3	3820.7	3904.1	3959.7	3967.3
55°	3738.0	3731.2	3686.1	3611.7	3550.8	3545.6	3599.7	3685.4	3775.6	3829.7	3842.5
57.5°	3559.1	3551.6	3503.5	3423.8	3363.7	3356.9	3411.8	3499.7	3595.2	3647.1	3660.6
60°	3334.4	3333.6	3279.5	3199.1	3141.9	3132.2	3181.0	3271.2	3363.7	3418.6	3431.3
62.5°	3074.3	3074.3	3020.2	2948.0	2883.4	2873.6	2919.5	3008.1	3093.8	3148.0	3164.5
65°	2778.1	2772.1	2730.8	2655.6	2591.0	2583.5	2628.6	2699.2	2787.2	2838.3	2854.1
67.5°	2448.2	2441.4	2412.1	2340.7	2285.0	2269.3	2307.6	2379.8	2456.4	2506.0	2516.6
70°	2096.4	2093.4	2063.3	1999.4	1947.6	1935.5	1970.9	2032.5	2097.1	2137.7	2155.0
72.5°	1734.8	1736.3	1704.8	1652.2	1616.1	1604.0	1627.3	1670.2	1742.3	1768.7	1782.9
75°	1377.8	1376.3	1356.7	1311.6	1277.8	1262.8	1286.8	1328.9	1362.8	1396.6	1413.1
77.5°	1035.0	1032.8	1022.3	984.7	962.1	950.9	963.6	992.9	1021.5	1050.8	1055.3
80°	718.6	719.3	707.3	684.0	660.0	658.5	669.0	684.0	707.3	726.9	729.9
82.5°	439.0	440.5	430.7	421.7	401.4	401.4	408.9	422.4	434.5	450.2	445.7
85°	209.0	209.0	206.7	199.2	192.4	190.2	193.9	199.2	204.5	212.0	212.7
87.5°	51.1	51.9	52.6	49.6	45.9	44.3	46.6	48.9	51.9	56.4	54.1
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)