

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: PORTFOLIO

Report Number: P248067

Luminaire Tested: **LD8B175D010 ER8B175850 8LBS0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248067
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-93)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175850 8LBS0WMH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 5000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19801.0 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.22
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

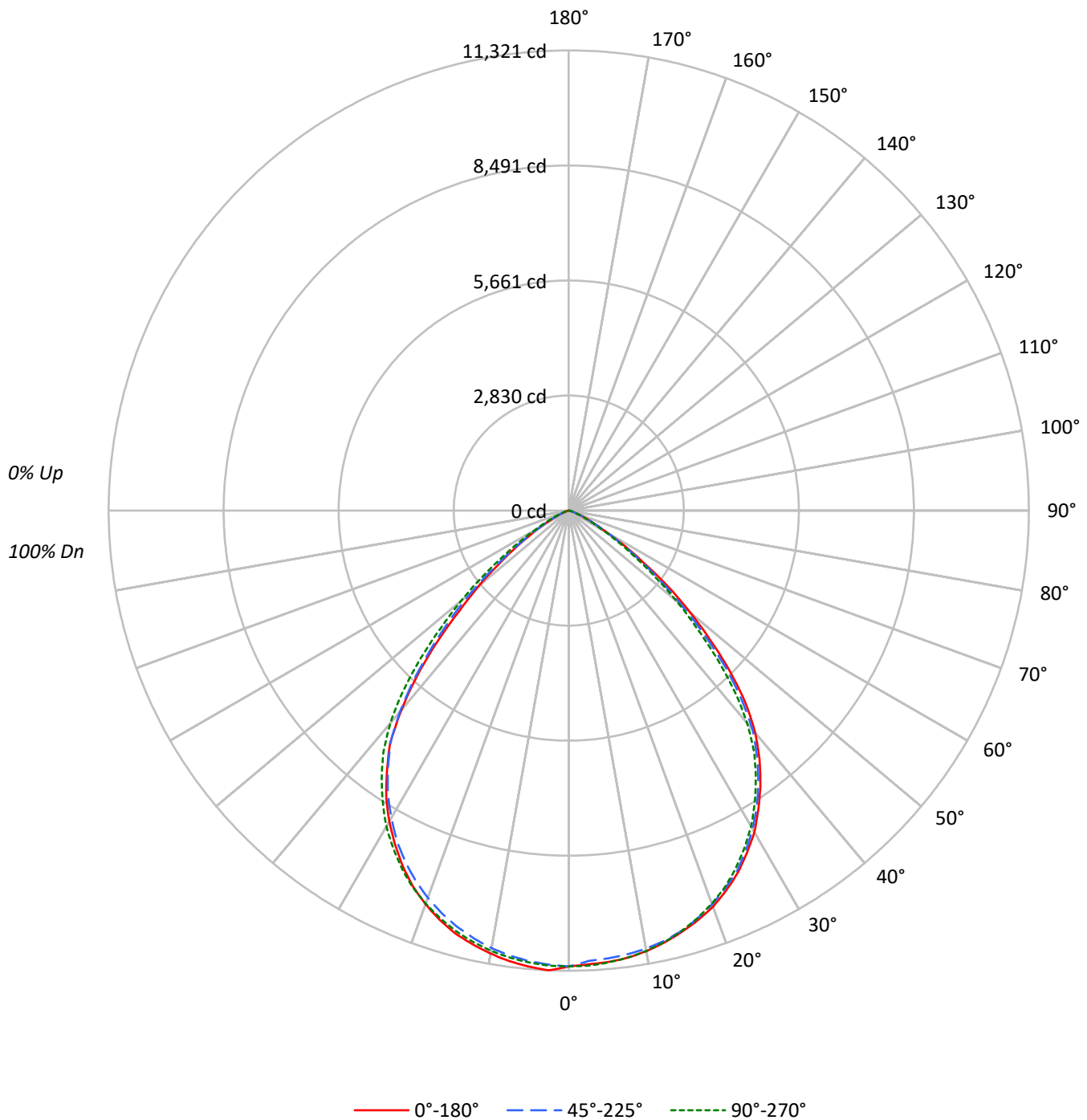
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			0
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			100
1	112	109	106	103	109	106	104	101		102	100	98			99	97	95			90
2	105	99	93	89	102	97	92	88		93	90	86			90	87	84			81
3	97	89	83	78	95	88	82	77		85	80	76			83	78	75			72
4	91	81	74	69	89	80	74	69		78	72	68			76	71	67			64
5	85	74	67	61	83	73	66	61		71	65	61			69	64	60			58
6	79	68	60	55	77	67	60	55		65	59	54			64	58	54			52
7	74	62	55	50	72	62	55	50		60	54	49			59	53	49			47
8	69	57	50	45	68	57	50	45		56	49	45			54	49	45			43
9	65	53	46	41	64	53	46	41		52	45	41			51	45	41			39
10	61	49	42	38	60	49	42	38		48	42	38			47	41	37			36

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	345829	345829	345829
5°	345135	345488	348568
10°	344648	344432	346546
15°	342661	342041	343902
20°	340367	337666	338191
25°	334617	330612	328625
30°	325221	319481	314432
35°	309480	302031	293636
40°	287385	275051	258064
45°	244961	225464	200179
50°	186528	166173	138632
55°	122963	107163	86319
60°	69049	60723	47679
65°	36212	32375	23028
70°	17320	15255	9593
75°	9805	10627	6672
80°	7512	7316	3853
85°	4458	3644	1628



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1059.1	5.3
10°-20°	3016.6	15.2
20°-30°	4456.6	22.5
30°-40°	4966.4	25.1
40°-50°	3922.1	19.8
50°-60°	1811.2	9.1
60°-70°	465.3	2.3
70°-80°	89.6	0.5
80°-90°	14.1	0.1
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°-30°	8532.3	43.1
0°-40°	13498.7	68.2
0°-60°	19232.0	97.1
0°-90°	19801.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19801.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11215	11215	11215	11215	11215	
5°	11150	11061	11161	11127	11261	###
15°	10734	10708	10714	10602	10772	3029
25°	9835	9789	9717	9523	9659	4519
35°	8221	8130	8023	7756	7800	5119
45°	5617	5454	5170	4757	4590	4287
55°	2287	2156	1993	1706	1606	2120
65°	496	503	444	340	316	545
75°	82	87	89	68	56	99
85°	13	13	10	6	5	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	11215.0	11215.0	11215.0	11215.0	11215.0	11215.0	11215.0	11215.0	11215.0
2.5°	11172.7	11225.3	11091.5	11200.2	11204.7	11128.1	11180.7	11243.6	11321.4
5°	11149.9	11203.6	11060.7	11161.3	11161.3	11077.8	11127.0	11181.9	11260.8
7.5°	11096.1	11154.4	11013.8	11107.5	11092.7	11001.2	11044.6	11098.4	11183.0
10°	11006.9	11079.0	10941.7	11030.9	11000.0	10894.8	10932.6	10988.6	11067.5
12.5°	10884.5	10970.3	10842.2	10920.0	10870.8	10750.7	10781.6	10853.7	10931.4
15°	10733.6	10821.7	10708.4	10775.9	10714.2	10580.4	10602.1	10675.3	10772.5
17.5°	10565.5	10651.3	10524.3	10597.5	10515.2	10376.8	10384.8	10469.4	10557.5
20°	10372.2	10443.1	10312.8	10382.5	10289.9	10137.8	10138.9	10214.4	10305.9
22.5°	10118.4	10192.7	10057.7	10116.1	10031.4	9869.1	9849.6	9922.8	10010.9
25°	9834.7	9912.5	9789.0	9809.6	9717.0	9548.9	9522.6	9576.3	9658.6
27.5°	9495.1	9571.7	9432.2	9458.5	9356.7	9195.5	9160.0	9188.6	9253.8
30°	9133.7	9181.8	9049.1	9070.8	8972.5	8781.5	8727.8	8766.6	8830.7
32.5°	8688.9	8723.2	8610.0	8621.4	8515.1	8350.4	8279.5	8290.9	8356.1
35°	8221.2	8239.5	8129.7	8132.0	8023.3	7856.4	7755.7	7750.0	7800.3
37.5°	7705.4	7718.0	7607.1	7601.3	7489.3	7308.6	7203.4	7185.1	7216.0
40°	7139.3	7156.5	7041.0	7004.4	6832.9	6627.0	6455.5	6423.5	6410.9
42.5°	6453.2	6406.3	6285.1	6223.3	6050.7	5786.5	5627.5	5579.5	5538.3
45°	5617.2	5579.5	5453.7	5314.2	5170.1	4971.1	4757.3	4625.8	4590.3
47.5°	4740.1	4695.5	4514.8	4392.5	4250.7	4159.2	3929.3	3726.9	3638.9
50°	3888.2	3839.0	3637.7	3547.4	3463.9	3327.8	3104.8	2923.0	2889.8
52.5°	3100.2	3025.9	2853.2	2759.4	2685.1	2534.2	2332.9	2227.7	2171.6
55°	2287.2	2275.7	2155.6	2088.2	1993.3	1873.2	1706.2	1627.3	1605.6
57.5°	1666.2	1623.9	1578.1	1521.0	1438.6	1287.7	1184.7	1125.3	1120.7
60°	1119.6	1133.3	1133.3	1070.4	984.6	886.3	803.9	771.9	773.1
62.5°	751.3	760.5	758.2	730.7	664.4	584.4	530.6	507.7	508.9
65°	496.3	494.0	503.2	483.7	443.7	387.7	339.6	327.1	315.6
67.5°	315.6	319.1	315.6	305.3	281.3	241.3	209.3	189.8	184.1
70°	192.1	187.5	188.7	186.4	169.2	149.8	126.9	110.9	106.4
72.5°	115.5	118.9	120.1	123.5	121.2	107.5	91.5	80.1	77.8
75°	82.3	83.5	86.9	90.3	89.2	80.1	67.5	59.5	56.0
77.5°	61.8	61.8	64.0	68.6	65.2	57.2	48.0	41.2	38.9
80°	42.3	43.5	44.6	44.6	41.2	36.6	28.6	24.0	21.7
82.5°	25.2	26.3	25.2	25.2	22.9	18.3	13.7	12.6	11.4
85°	12.6	12.6	12.6	12.6	10.3	8.0	5.7	4.6	4.6
87.5°	5.7	5.7	5.7	4.6	3.4	2.3	2.3	1.1	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)