

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: P248148

Luminaire Tested: **LD8B175D010 ER8B175935 8LBS0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248148
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-94)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175935 8LBS0WH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17398.0 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.23
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

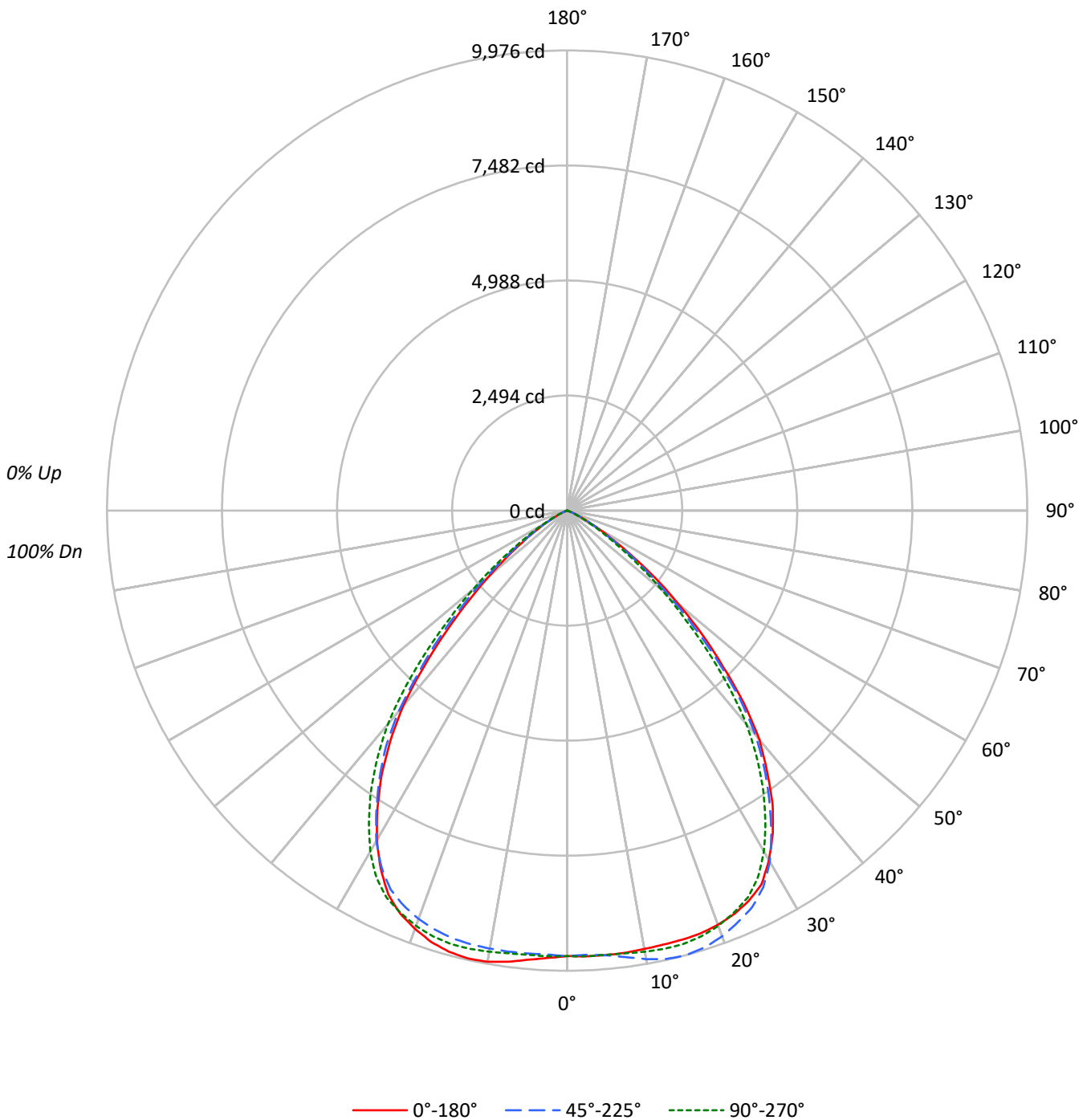
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				10	0
RW	70	50	30	10	70	50	30	10	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	102	102	102	100
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82
3	98	90	84	79	96	89	83	79	86	81	78	84	80	76	81	78	75	73
4	92	82	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66
5	86	75	68	63	84	74	68	63	72	67	62	71	66	62	69	65	61	59
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53
7	75	64	56	51	73	63	56	51	62	55	51	60	55	50	59	54	50	48
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	297839	297839	297839
5°	299425	299215	302524
10°	302192	304002	310966
15°	307487	310558	316029
20°	313606	314427	316576
25°	317425	315036	312283
30°	311448	303839	293624
35°	292194	279184	263923
40°	261023	243351	222810
45°	208168	187384	162405
50°	150802	128725	104845
55°	93534	76089	60148
60°	48098	37824	30226
65°	20510	15388	11798
70°	6510	3210	2083
75°	1716	1037	1037
80°	1367	852	693
85°	1026	354	354



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	926.1	5.3
10°-20°	2756.4	15.8
20°-30°	4236.9	24.4
30°-40°	4580.0	26.3
40°-50°	3295.7	18.9
50°-60°	1329.9	7.6
60°-70°	255.7	1.5
70°-80°	15.2	0.1
80°-90°	2.2	0.0
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°-30°	7919.4	45.5
0°-40°	12499.4	71.8
0°-60°	17125.0	98.4
0°-90°	17398.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17398.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9659	9659	9659	9659	9659	
5°	9673	9676	9666	9638	9773	923
15°	9632	9976	9728	9600	9899	2726
25°	9329	9489	9259	9060	9178	4280
35°	7762	7639	7416	7096	7011	4807
45°	4774	4632	4297	3945	3724	3687
55°	1740	1609	1415	1223	1119	1622
65°	281	287	211	165	162	329
75°	14	12	9	9	9	24
85°	3	2	1	1	1	3
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°	9658.7	9658.7	9658.7	9658.7	9658.7	9658.7	9658.7	9658.7	9658.7
2.5°	9673.2	9659.7	9640.4	9639.5	9670.3	9652.9	9631.8	9653.9	9708.8
5°	9673.2	9675.1	9676.0	9667.4	9666.4	9637.5	9638.5	9698.2	9773.3
7.5°	9666.4	9704.0	9762.7	9749.2	9681.8	9618.3	9644.3	9764.6	9864.7
10°	9651.0	9738.6	9873.4	9853.2	9708.8	9600.9	9642.3	9809.9	9931.2
12.5°	9637.5	9757.9	9957.2	9933.1	9730.9	9589.4	9630.8	9815.6	9946.6
15°	9631.8	9761.7	9976.4	9946.6	9728.0	9566.3	9600.0	9773.3	9899.4
17.5°	9610.6	9731.9	9928.3	9891.7	9678.0	9512.4	9526.8	9684.7	9804.1
20°	9556.7	9660.6	9821.4	9771.4	9581.7	9415.1	9419.9	9539.3	9647.2
22.5°	9465.2	9547.0	9663.5	9615.4	9438.2	9287.1	9266.9	9367.0	9457.5
25°	9329.4	9395.9	9489.3	9437.3	9259.2	9105.1	9059.9	9123.4	9178.3
27.5°	9130.1	9153.2	9206.2	9126.3	8961.7	8810.5	8716.1	8725.8	8754.7
30°	8746.9	8784.5	8789.3	8697.8	8533.2	8358.0	8271.3	8223.2	8246.3
32.5°	8296.4	8285.8	8237.6	8126.9	7997.9	7858.3	7694.6	7639.7	7652.3
35°	7762.0	7737.0	7638.8	7532.9	7416.4	7245.0	7095.8	7014.9	7011.0
37.5°	7111.2	7077.5	7013.0	6866.6	6759.8	6615.3	6452.6	6363.1	6295.7
40°	6484.4	6431.4	6355.4	6180.2	6045.4	5844.1	5677.6	5553.4	5535.1
42.5°	5675.6	5649.7	5540.9	5364.7	5196.2	4958.4	4764.8	4660.9	4607.0
45°	4773.5	4773.5	4632.0	4477.0	4296.9	4119.8	3944.6	3789.5	3724.1
47.5°	3965.7	3865.6	3731.8	3566.2	3434.3	3309.1	3123.3	2932.7	2888.4
50°	3143.5	3080.0	2922.1	2764.2	2683.3	2563.9	2417.6	2232.7	2185.5
52.5°	2429.1	2329.0	2192.3	2074.8	1998.8	1905.4	1746.5	1620.4	1596.3
55°	1739.8	1688.7	1608.8	1512.5	1415.3	1317.1	1222.7	1150.5	1118.8
57.5°	1191.9	1174.6	1108.2	1051.4	957.0	870.4	783.7	760.6	762.5
60°	779.9	778.9	746.2	695.1	613.3	534.3	493.9	482.4	490.1
62.5°	471.8	480.4	471.8	441.9	379.3	318.7	289.8	295.6	290.8
65°	281.1	289.8	286.9	248.4	210.9	184.9	164.6	156.9	161.7
67.5°	163.7	158.9	146.3	128.1	104.9	86.7	73.2	66.4	67.4
70°	72.2	68.4	61.6	47.2	35.6	28.9	24.1	22.1	23.1
72.5°	27.0	26.0	22.1	18.3	15.4	12.5	11.6	11.6	11.6
75°	14.4	13.5	11.6	9.6	8.7	8.7	8.7	8.7	8.7
77.5°	10.6	9.6	8.7	7.7	6.7	5.8	5.8	5.8	5.8
80°	7.7	6.7	5.8	4.8	4.8	3.9	3.9	3.9	3.9
82.5°	4.8	4.8	3.9	2.9	2.9	1.9	1.9	1.9	1.9
85°	2.9	2.9	1.9	1.9	1.0	1.0	1.0	1.0	1.0
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)