

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: P248061

Luminaire Tested: **LD8B175D010 ER8B175835 8LBS0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248061  
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 ER8B175835 8LBS0WMH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3500 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19549.0 lumens  
Efficiency: N/A  
Efficacy: 110.3 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

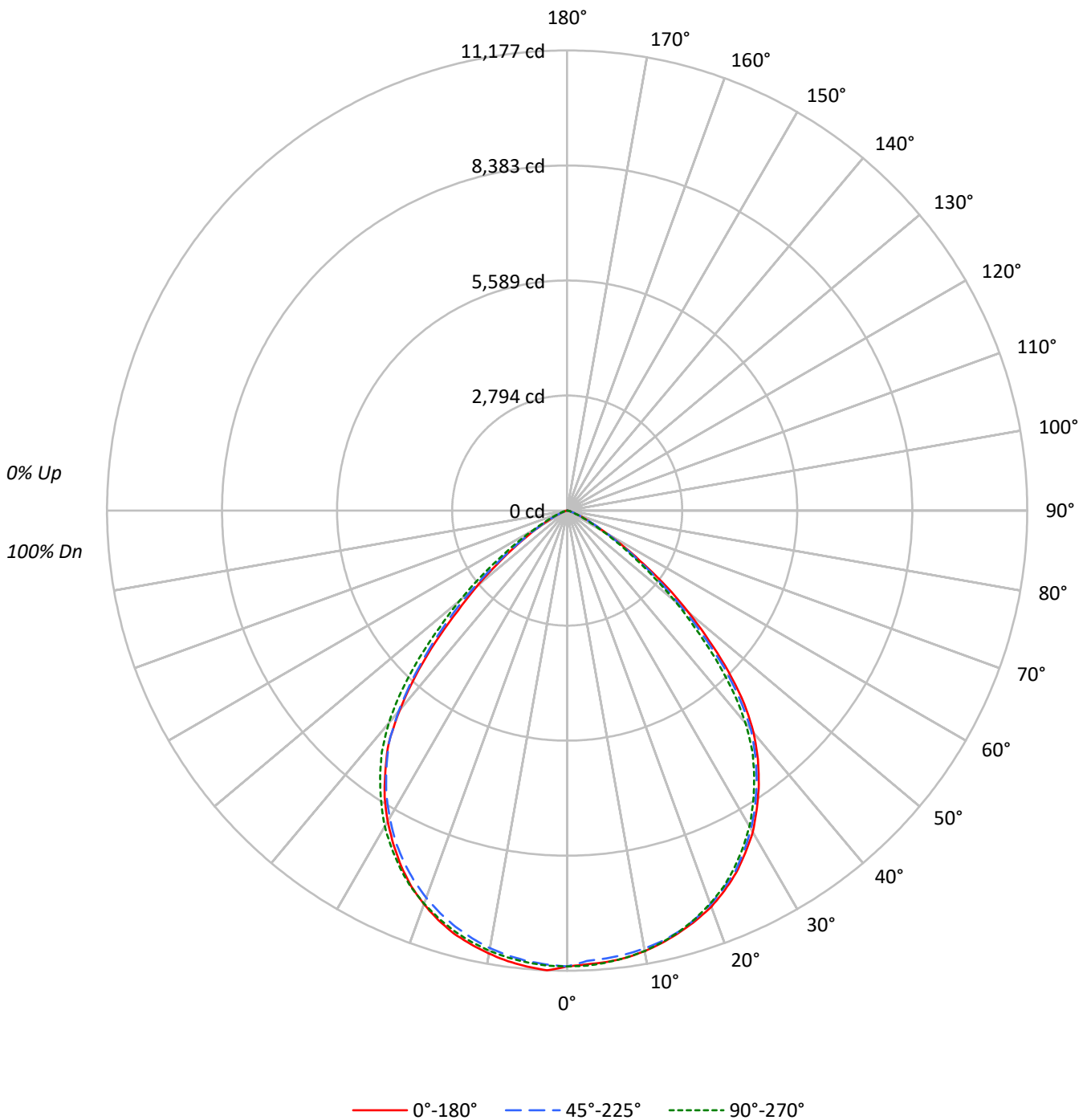
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90					90			
2	105	99	93	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	97	89	83	78	95	88	82	77	85	80	76	83	78	75	80	77	74	72					72			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64					64			
5	85	74	67	61	83	73	66	61	71	65	61	69	64	60	68	63	59	58					58			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52					52			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47					47			
8	69	57	50	45	68	57	50	45	56	49	45	54	49	45	53	48	44	43					43			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39					39			
10	61	49	42	38	60	49	42	38	48	42	38	47	41	37	46	41	37	36					36			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	341429	341429	341429
5°	340743	341089	344132
10°	340261	340052	342137
15°	338300	337687	339526
20°	336035	333368	333886
25°	330360	326403	324444
30°	321083	315415	310430
35°	305539	298187	289902
40°	283730	271549	254779
45°	241848	222594	197632
50°	184153	164057	136866
55°	121393	105797	85217
60°	68167	59952	47069
65°	35753	31966	22736
70°	17103	15066	9467
75°	9686	10496	6589
80°	7423	7210	3818
85°	4387	3609	1592



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1045.6	5.3
10°-20°	2978.2	15.2
20°-30°	4399.9	22.5
30°-40°	4903.2	25.1
40°-50°	3872.2	19.8
50°-60°	1788.2	9.1
60°-70°	459.4	2.3
70°-80°	88.5	0.5
80°-90°	13.9	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°	8423.8	43.1
0°-40°	13326.9	68.2
0°-60°	18987.3	97.1
0°-90°	19549.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19549.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	11072	11072	11072	11072	11072	
5°	11008	10920	11019	10985	11118	###
15°	10597	10572	10578	10467	10635	2991
25°	9710	9664	9593	9401	9536	4462
35°	8116	8026	7921	7657	7701	5054
45°	5546	5384	5104	4697	4532	4233
55°	2258	2128	1968	1684	1585	2093
65°	490	497	438	335	312	538
75°	81	86	88	67	55	98
85°	12	12	10	6	4	17
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°	11072.3	11072.3	11072.3	11072.3	11072.3	11072.3	11072.3	11072.3	11072.3
2.5°	11030.5	11082.5	10950.4	11057.6	11062.2	10986.5	11038.4	11100.5	11177.3
5°	11008.0	11061.0	10919.9	11019.2	11019.2	10936.8	10985.4	11039.6	11117.5
7.5°	10954.9	11012.5	10873.6	10966.2	10951.5	10861.2	10904.1	10957.2	11040.7
10°	10866.8	10938.0	10802.5	10890.5	10860.1	10756.2	10793.4	10848.8	10926.7
12.5°	10746.0	10830.7	10704.3	10781.0	10732.5	10613.9	10644.4	10715.5	10792.3
15°	10597.0	10683.9	10572.2	10638.8	10577.8	10445.7	10467.2	10539.4	10635.4
17.5°	10431.0	10515.7	10390.4	10462.6	10381.4	10244.7	10252.6	10336.2	10423.1
20°	10240.2	10310.2	10181.5	10250.4	10158.9	10008.8	10009.9	10084.4	10174.7
22.5°	9989.6	10063.0	9929.7	9987.3	9903.8	9743.5	9724.3	9796.5	9883.5
25°	9709.6	9786.4	9664.4	9684.7	9593.3	9427.3	9401.4	9454.4	9535.7
27.5°	9374.3	9449.9	9312.2	9338.1	9237.7	9078.5	9043.5	9071.7	9136.0
30°	9017.5	9064.9	8933.9	8955.4	8858.3	8669.8	8616.7	8655.1	8718.3
32.5°	8578.3	8612.2	8500.4	8511.7	8406.7	8244.1	8174.1	8185.4	8249.8
35°	8116.5	8134.6	8026.2	8028.5	7921.2	7756.4	7657.0	7651.4	7701.1
37.5°	7607.3	7619.8	7510.2	7504.6	7394.0	7215.6	7111.7	7093.6	7124.1
40°	7048.5	7065.4	6951.4	6915.3	6745.9	6542.7	6373.3	6341.7	6329.3
42.5°	6371.1	6324.8	6205.1	6144.1	5973.7	5712.8	5555.9	5508.5	5467.9
45°	5545.8	5508.5	5384.3	5246.6	5104.3	4907.9	4696.7	4566.9	4531.9
47.5°	4679.8	4635.8	4457.4	4336.6	4196.6	4106.3	3879.3	3679.5	3592.5
50°	3838.7	3790.1	3591.4	3502.2	3419.8	3285.5	3065.3	2885.8	2853.0
52.5°	3060.8	2987.4	2816.9	2724.3	2650.9	2501.9	2303.2	2199.3	2144.0
55°	2258.0	2246.8	2128.2	2061.6	1967.9	1849.3	1684.5	1606.6	1585.1
57.5°	1645.0	1603.2	1558.0	1501.6	1420.3	1271.3	1169.7	1111.0	1106.4
60°	1105.3	1118.9	1118.9	1056.8	972.1	875.0	793.7	762.1	763.2
62.5°	741.8	750.8	748.5	721.4	656.0	576.9	523.9	501.3	502.4
65°	490.0	487.7	496.8	477.6	438.1	382.7	335.3	322.9	311.6
67.5°	311.6	315.0	311.6	301.4	277.7	238.2	206.6	187.4	181.8
70°	189.7	185.2	186.3	184.0	167.1	147.9	125.3	109.5	105.0
72.5°	114.0	117.4	118.5	121.9	119.7	106.1	90.3	79.0	76.8
75°	81.3	82.4	85.8	89.2	88.1	79.0	66.6	58.7	55.3
77.5°	61.0	61.0	63.2	67.7	64.4	56.5	47.4	40.6	38.4
80°	41.8	42.9	44.0	44.0	40.6	36.1	28.2	23.7	21.5
82.5°	24.8	26.0	24.8	24.8	22.6	18.1	13.5	12.4	11.3
85°	12.4	12.4	12.4	12.4	10.2	7.9	5.6	4.5	4.5
87.5°	5.6	5.6	5.6	4.5	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)