

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: P247824

Luminaire Tested: **LD8B175D010 ER8B175935 8LBNOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247824  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-89)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B175D010 ER8B175935 8LBNOLI  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 3500 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14448.0 lumens  
Efficiency: N/A  
Efficacy: 81.5 lumens/watt  
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.63  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

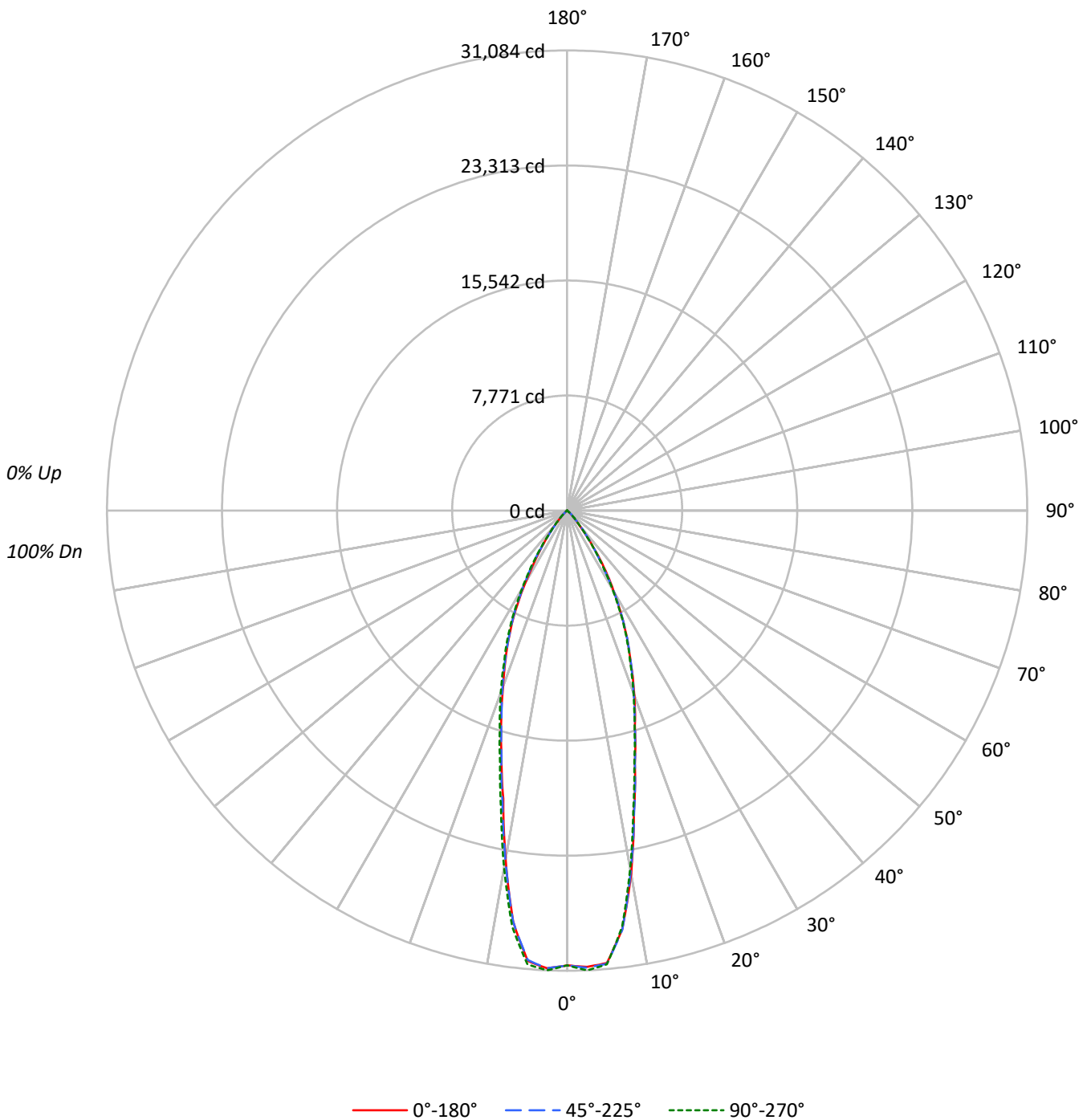
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	114	112	109	107	112	109	107	106	105	104	102	102	101	99	98	97	97	95					95			
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	90					90			
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	90	88	86	85					85			
4	100	94	89	85	98	92	88	84	90	87	83	88	85	83	87	84	82	80					80			
5	96	89	83	80	94	88	83	79	86	82	79	84	81	78	83	80	77	76					76			
6	92	84	79	75	91	83	78	75	82	78	74	81	77	74	79	76	73	72					72			
7	88	80	75	71	87	79	74	71	78	74	71	77	73	70	76	73	70	69					69			
8	85	76	71	67	84	76	71	67	75	70	67	74	70	67	73	69	67	65					65			
9	81	73	68	64	80	72	67	64	72	67	64	71	67	64	70	66	63	62					62			
10	78	70	65	61	77	69	64	61	69	64	61	68	64	61	67	63	61	60					60			

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

	0°	90°	180°
0°	947261	947261	947261
5°	949777	952281	945515
10°	779876	767545	748432
15°	565089	559342	546464
20°	435942	430002	415816
25°	327353	323457	312678
30°	223382	217144	200174
35°	126274	120872	110651
40°	50809	52825	50849
45°	20950	21499	19903
50°	6376	6280	4572
55°	1812	1344	930
60°	1425	1307	358
65°	635	1335	285
70°	352	694	0
75°	1954	1144	798
80°	1545	693	1882
85°	2052	3750	5095



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2715.3	18.8
10°-20°	4920.4	34.1
20°-30°	4287.3	29.7
30°-40°	2042.1	14.1
40°-50°	424.3	2.9
50°-60°	33.7	0.2
60°-70°	13.1	0.1
70°-80°	5.8	0.0
80°-90°	6.0	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°	11923.0	82.5
0°-40°	13965.1	96.7
0°-60°	14423.1	99.8
0°-90°	14448.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14448.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	30719	30719	30719	30719	30719	
5°	30683	30732	30764	30475	30546	###
15°	17701	17703	17521	17158	17118	4999
25°	9621	9612	9507	9221	9190	4374
35°	3354	3241	3211	3048	2939	2147
45°	480	532	493	442	456	424
55°	34	26	25	23	17	37
65°	9	14	18	6	4	13
75°	16	11	10	12	7	8
85°	6	6	11	7	14	5
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°	30719.0	30719.0	30719.0	30719.0	30719.0	30719.0	30719.0	30719.0	30719.0
2.5°	30852.8	30858.6	30906.7	31044.4	31083.9	31053.1	30949.1	30911.6	30949.1
5°	30683.4	30663.2	30732.5	30834.5	30764.3	30638.1	30475.4	30437.9	30545.7
7.5°	28511.3	28497.8	28563.3	28555.6	28369.8	28132.0	27996.2	27889.3	27981.8
10°	24906.6	24786.2	24742.9	24819.0	24512.8	24184.5	23989.1	24061.3	23902.4
12.5°	20848.4	20832.0	20909.1	20815.7	20638.5	20437.3	20197.6	20068.5	19953.0
15°	17701.0	17744.3	17702.9	17664.4	17521.0	17369.8	17158.0	17068.5	17117.6
17.5°	15230.5	15218.0	15174.6	15239.2	15128.4	14911.8	14726.0	14757.8	14811.7
20°	13284.7	13231.7	13129.7	13156.6	13103.7	12935.2	12765.7	12652.1	12671.4
22.5°	11279.2	11325.4	11312.9	11233.0	11150.2	11026.9	10944.1	10795.8	10865.2
25°	9621.2	9628.9	9611.6	9600.0	9506.7	9388.2	9220.7	9185.1	9189.9
27.5°	7924.8	7961.4	7946.9	7897.8	7803.5	7704.3	7600.3	7518.5	7510.8
30°	6273.6	6325.6	6222.6	6152.3	6098.4	6081.0	5906.8	5784.5	5621.8
32.5°	4854.4	4777.4	4449.1	4450.0	4555.0	4596.4	4429.8	4152.5	4107.3
35°	3354.4	3340.9	3240.8	3210.0	3210.9	3170.5	3048.2	2940.4	2939.4
37.5°	2102.7	2152.8	2208.7	2196.1	2072.9	1947.7	1889.0	1952.6	1970.8
40°	1262.2	1327.7	1395.1	1402.8	1312.3	1167.9	1149.6	1208.3	1263.2
42.5°	790.5	818.4	863.6	872.3	807.8	754.8	721.1	763.5	763.5
45°	480.4	506.4	531.5	533.4	493.0	448.7	441.9	458.3	456.4
47.5°	283.1	284.0	293.7	286.9	273.4	252.3	243.6	252.3	254.2
50°	132.9	130.0	134.8	147.3	130.9	110.7	112.6	105.9	95.3
52.5°	31.8	28.9	34.7	37.5	36.6	38.5	36.6	36.6	27.9
55°	33.7	21.2	26.0	27.0	25.0	27.0	23.1	15.4	17.3
57.5°	23.1	24.1	24.1	27.0	23.1	28.9	24.1	17.3	19.3
60°	23.1	16.4	15.4	26.0	21.2	14.4	16.4	22.1	5.8
62.5°	17.3	16.4	18.3	26.0	18.3	21.2	16.4	26.0	17.3
65°	8.7	14.4	14.4	14.4	18.3	16.4	5.8	11.6	3.9
67.5°	12.5	6.7	5.8	12.5	15.4	10.6	4.8	4.8	8.7
70°	3.9	5.8	2.9	6.7	7.7	6.7	4.8	1.0	0.0
72.5°	6.7	2.9	6.7	5.8	9.6	6.7	5.8	4.8	3.9
75°	16.4	12.5	10.6	11.6	9.6	5.8	11.6	11.6	6.7
77.5°	0.0	0.0	1.9	0.0	0.0	0.0	1.0	0.0	0.0
80°	8.7	6.7	6.7	6.7	3.9	5.8	2.9	1.0	10.6
82.5°	8.7	10.6	10.6	4.8	12.5	7.7	6.7	1.9	10.6
85°	5.8	10.6	5.8	4.8	10.6	8.7	6.7	2.9	14.4
87.5°	0.0	5.8	5.8	3.9	5.8	1.9	4.8	2.9	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)