

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: P247825

Luminaire Tested: **LD8B200D010 ER8B200935 8LBNOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247825  
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: LD8B200D010 ER8B200935 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: 17031.0 lumens  
Efficiency: N/A  
Efficacy: 76.3 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

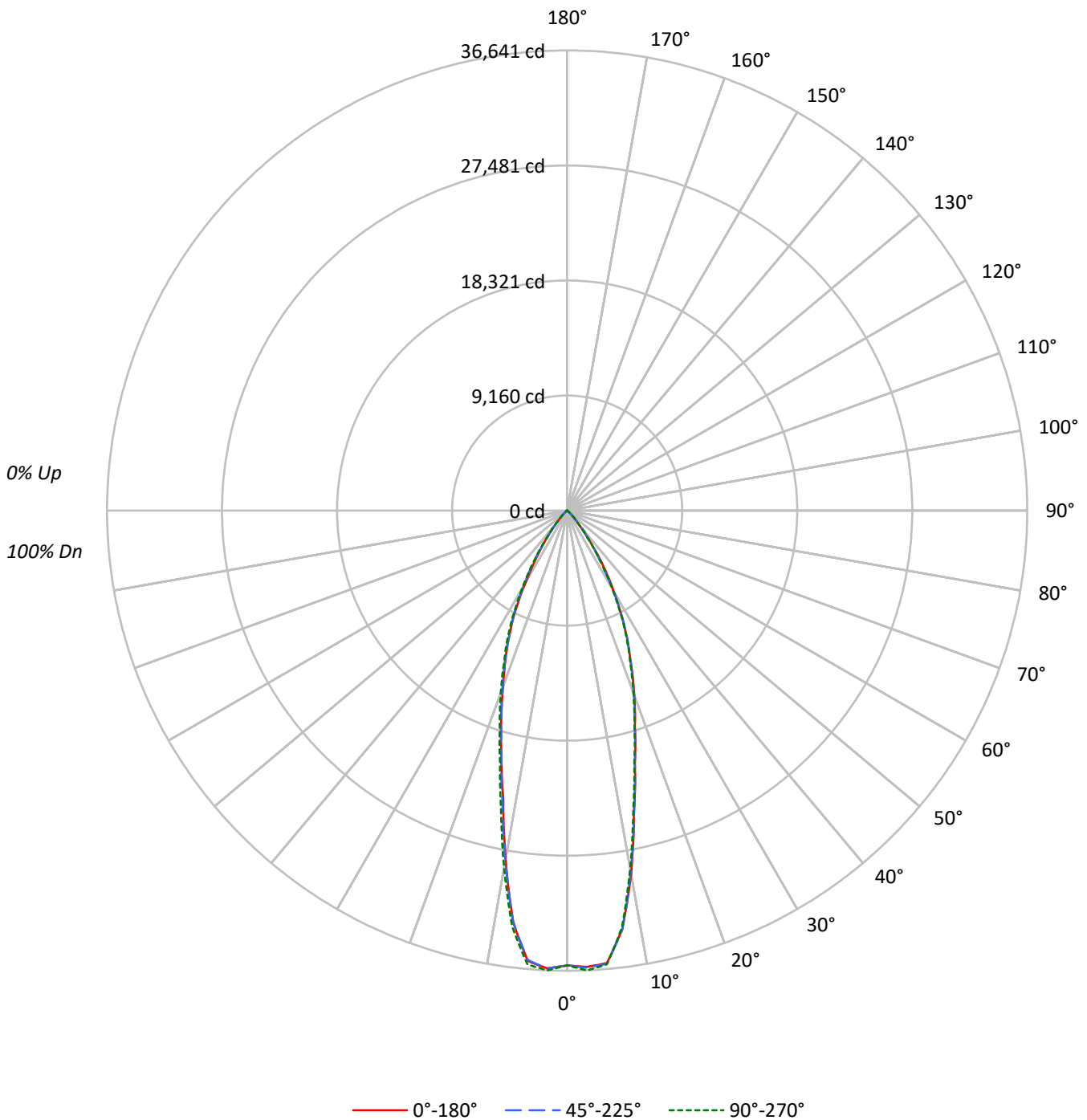
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1116611	1116611	1116611
5°	1119576	1122529	1114552
10°	919302	904767	882235
15°	666116	659341	644158
20°	513878	506875	490153
25°	385878	381281	368580
30°	263319	255962	235959
35°	148849	142483	130433
40°	59894	62269	59938
45°	24696	25341	23462
50°	7513	7402	5392
55°	2134	1586	1097
60°	1677	1542	419
65°	744	1576	328
70°	406	820	0
75°	2299	1346	941
80°	1811	799	2220
85°	2406	4423	6015



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3200.7	18.8
10°-20°	5800.1	34.1
20°-30°	5053.8	29.7
30°-40°	2407.2	14.1
40°-50°	500.2	2.9
50°-60°	39.8	0.2
60°-70°	15.4	0.1
70°-80°	6.8	0.0
80°-90°	7.1	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°	14054.6	82.5
0°-40°	16461.7	96.7
0°-60°	17001.7	99.8
0°-90°	17031.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17031.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	36211	36211	36211	36211	36211	
5°	36169	36227	36264	35924	36007	###
15°	20866	20868	20653	20226	20178	5893
25°	11341	11330	11206	10869	10833	5156
35°	3954	3820	3785	3593	3465	2531
45°	566	626	581	521	538	500
55°	40	31	30	27	20	43
65°	10	17	22	7	4	15
75°	19	12	11	14	8	9
85°	7	7	12	8	17	6
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°	36210.9	36210.9	36210.9	36210.9	36210.9	36210.9	36210.9	36210.9	36210.9
2.5°	36368.7	36375.5	36432.2	36594.5	36641.1	36604.7	36482.2	36437.9	36482.2
5°	36168.9	36145.1	36226.8	36347.1	36264.3	36115.6	35923.8	35879.5	36006.6
7.5°	33608.5	33592.6	33669.8	33660.7	33441.7	33161.4	33001.3	32875.4	32984.3
10°	29359.4	29217.5	29166.4	29256.1	28895.2	28508.2	28277.8	28362.9	28175.6
12.5°	24575.7	24556.4	24647.2	24537.1	24328.3	24091.1	23808.5	23656.4	23520.2
15°	20865.6	20916.7	20867.9	20822.5	20653.4	20475.2	20225.5	20119.9	20177.8
17.5°	17953.4	17938.6	17887.6	17963.6	17833.1	17577.7	17358.7	17396.1	17459.7
20°	15659.7	15597.3	15477.0	15508.7	15446.3	15247.7	15048.0	14914.0	14936.7
22.5°	13295.6	13350.1	13335.4	13241.2	13143.6	12998.3	12900.7	12725.9	12807.6
25°	11341.3	11350.4	11330.0	11316.3	11206.2	11066.7	10869.2	10827.2	10832.9
27.5°	9341.6	9384.7	9367.7	9309.8	9198.6	9081.7	8959.1	8862.6	8853.5
30°	7395.2	7456.5	7335.0	7252.2	7188.6	7168.2	6962.8	6818.6	6626.8
32.5°	5722.3	5631.5	5244.5	5245.6	5369.3	5418.1	5221.8	4894.9	4841.6
35°	3954.1	3938.2	3820.2	3783.8	3785.0	3737.3	3593.2	3466.1	3464.9
37.5°	2478.7	2537.7	2603.5	2588.8	2443.5	2296.0	2226.7	2301.6	2323.2
40°	1487.9	1565.1	1644.5	1653.6	1546.9	1376.7	1355.1	1424.3	1489.0
42.5°	931.8	964.7	1018.0	1028.2	952.2	889.8	850.1	900.0	900.0
45°	566.3	597.0	626.5	628.7	581.1	528.9	520.9	540.2	538.0
47.5°	333.7	334.8	346.2	338.2	322.3	297.4	287.1	297.4	299.6
50°	156.6	153.2	158.9	173.6	154.3	130.5	132.8	124.8	112.4
52.5°	37.5	34.0	40.9	44.3	43.1	45.4	43.1	43.1	32.9
55°	39.7	25.0	30.6	31.8	29.5	31.8	27.2	18.2	20.4
57.5°	27.2	28.4	28.4	31.8	27.2	34.0	28.4	20.4	22.7
60°	27.2	19.3	18.2	30.6	25.0	17.0	19.3	26.1	6.8
62.5°	20.4	19.3	21.6	30.6	21.6	25.0	19.3	30.6	20.4
65°	10.2	17.0	17.0	17.0	21.6	19.3	6.8	13.6	4.5
67.5°	14.8	7.9	6.8	14.8	18.2	12.5	5.7	5.7	10.2
70°	4.5	6.8	3.4	7.9	9.1	7.9	5.7	1.1	0.0
72.5°	7.9	3.4	7.9	6.8	11.3	7.9	6.8	5.7	4.5
75°	19.3	14.8	12.5	13.6	11.3	6.8	13.6	13.6	7.9
77.5°	0.0	0.0	2.3	0.0	0.0	0.0	1.1	0.0	0.0
80°	10.2	7.9	7.9	7.9	4.5	6.8	3.4	1.1	12.5
82.5°	10.2	12.5	12.5	5.7	14.8	9.1	7.9	2.3	12.5
85°	6.8	12.5	6.8	5.7	12.5	10.2	7.9	3.4	17.0
87.5°	0.0	6.8	6.8	4.5	6.8	2.3	5.7	3.4	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)