

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: P247833

Luminaire Tested: **LD8B175D010 ER8B175927 8LBNOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247833  
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 ER8B175927 8LBNOLI  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 2700 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13271.7 lumens  
Efficiency: N/A  
Efficacy: 74.9 lumens/watt  
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.63  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

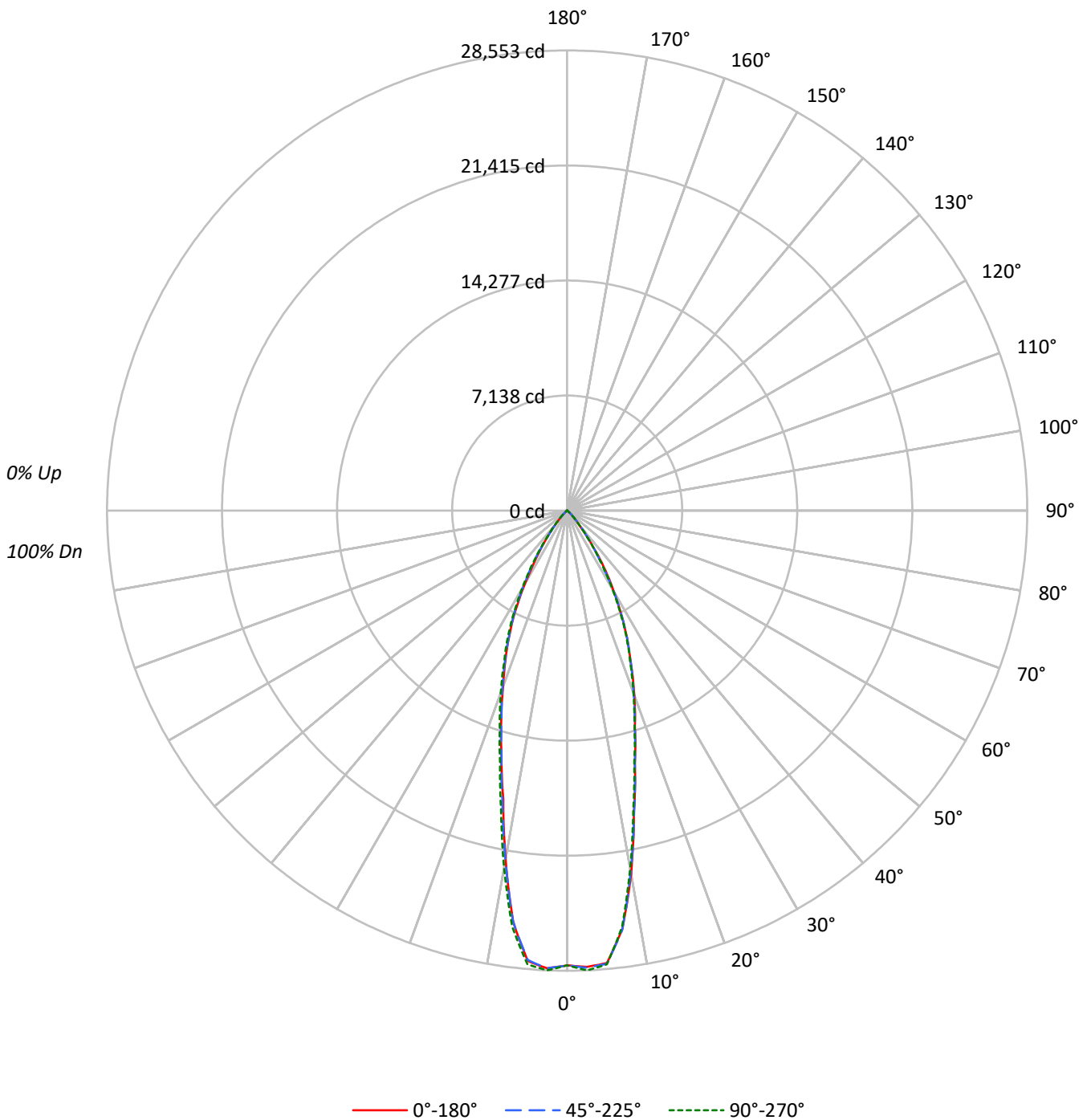
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100			
1	114	112	109	107	112	109	107	106	105	104	102	102	101	99	98	97	97	95	95	95	95			
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	90	90	90	90			
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	90	88	86	85	85	85	85			
4	100	94	89	85	98	92	88	84	90	87	83	88	85	83	87	84	82	80	80	80	80			
5	96	89	83	80	94	88	83	79	86	82	79	84	81	78	83	80	77	76	76	76	76			
6	92	84	79	75	91	83	78	75	82	78	74	81	77	74	79	76	73	72	72	72	72			
7	88	80	75	71	87	79	74	71	78	74	71	77	73	70	76	73	70	69	69	69	69			
8	85	76	71	67	84	76	71	67	75	70	67	74	70	67	73	69	67	65	65	65	65			
9	81	73	68	64	80	72	67	64	72	67	64	71	67	64	70	66	63	62	62	62	62			
10	78	70	65	61	77	69	64	61	69	64	61	68	64	61	67	63	61	60	60	60	60			

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

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2494.2	18.8
10°-20°	4519.8	34.1
20°-30°	3938.2	29.7
30°-40°	1875.8	14.1
40°-50°	389.8	2.9
50°-60°	31.0	0.2
60°-70°	12.0	0.1
70°-80°	5.3	0.0
80°-90°	5.5	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°	10952.2	82.5
0°-40°	12828.0	96.7
0°-60°	13248.8	99.8
0°-90°	13271.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13271.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	28218	28218	28218	28218	28218	
5°	28185	28230	28259	27994	28059	###
15°	16260	16262	16094	15761	15724	4592
25°	8838	8829	8733	8470	8442	4018
35°	3081	2977	2950	2800	2700	1973
45°	441	488	453	406	419	390
55°	31	24	23	21	16	34
65°	8	13	17	5	4	12
75°	15	10	9	11	6	7
85°	5	5	10	6	13	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°	28217.8	28217.8	28217.8	28217.8	28217.8	28217.8	28217.8	28217.8	28217.8
2.5°	28340.8	28346.1	28390.3	28516.7	28553.1	28524.7	28429.2	28394.7	28429.2
5°	28185.1	28166.5	28230.2	28323.9	28259.4	28143.6	27994.0	27959.6	28058.6
7.5°	26189.9	26177.5	26237.6	26230.6	26059.8	25841.5	25716.7	25618.5	25703.4
10°	22878.7	22768.1	22728.4	22798.2	22517.0	22215.4	22035.8	22102.2	21956.3
12.5°	19150.9	19135.9	19206.7	19120.8	18958.0	18773.2	18553.0	18434.6	18328.4
15°	16259.7	16299.6	16261.5	16226.2	16094.4	15955.5	15761.0	15678.7	15723.8
17.5°	13990.4	13978.9	13939.1	13998.4	13896.7	13697.7	13527.0	13556.1	13605.6
20°	12203.0	12154.4	12060.7	12085.4	12036.7	11882.0	11726.3	11621.9	11639.7
22.5°	10360.8	10403.2	10391.7	10318.4	10242.3	10129.1	10053.0	9916.9	9980.6
25°	8837.9	8845.0	8829.0	8818.4	8732.6	8623.8	8469.9	8437.3	8441.7
27.5°	7279.5	7313.2	7299.9	7254.8	7168.0	7077.0	6981.5	6906.3	6899.3
30°	5762.8	5810.5	5715.9	5651.3	5601.8	5585.8	5425.9	5313.5	5164.1
32.5°	4459.2	4388.4	4086.8	4087.7	4184.1	4222.1	4069.1	3814.4	3772.9
35°	3081.3	3068.9	2976.9	2948.6	2949.5	2912.4	2800.0	2701.0	2700.1
37.5°	1931.5	1977.5	2028.8	2017.4	1904.2	1789.2	1735.2	1793.6	1810.4
40°	1159.4	1219.6	1281.5	1288.6	1205.4	1072.8	1055.9	1109.9	1160.3
42.5°	726.1	751.7	793.4	801.2	742.1	693.3	662.4	701.3	701.3
45°	441.3	465.2	488.1	489.9	452.8	412.1	405.9	421.0	419.2
47.5°	260.0	260.9	269.8	263.6	251.2	231.8	223.8	231.8	233.4
50°	122.1	119.4	123.9	135.3	120.3	101.7	103.5	97.3	87.5
52.5°	29.1	26.6	31.8	34.5	33.6	35.3	33.6	33.6	25.6
55°	30.9	19.5	23.8	24.8	23.0	24.8	21.3	14.2	16.0
57.5°	21.3	22.2	22.2	24.8	21.3	26.6	22.2	16.0	17.7
60°	21.3	15.1	14.2	23.8	19.5	13.3	15.1	20.4	5.3
62.5°	16.0	15.1	16.8	23.8	16.8	19.5	15.1	23.8	16.0
65°	8.0	13.3	13.3	13.3	16.8	15.1	5.3	10.6	3.5
67.5°	11.5	6.2	5.3	11.5	14.2	9.7	4.4	4.4	8.0
70°	3.5	5.3	2.7	6.2	7.1	6.2	4.4	0.9	0.0
72.5°	6.2	2.7	6.2	5.3	8.9	6.2	5.3	4.4	3.5
75°	15.1	11.5	9.7	10.6	8.9	5.3	10.6	10.6	6.2
77.5°	0.0	0.0	1.8	0.0	0.0	0.0	0.9	0.0	0.0
80°	8.0	6.2	6.2	6.2	3.5	5.3	2.7	0.9	9.7
82.5°	8.0	9.7	9.7	4.4	11.5	7.1	6.2	1.8	9.7
85°	5.3	9.7	5.3	4.4	9.7	8.0	6.2	2.7	13.3
87.5°	0.0	5.3	5.3	3.5	5.3	1.8	4.4	2.7	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)