

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: P247827

Luminaire Tested: **LD8B175D010 ER8B175940 8LBNOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247827  
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 ER8B175940 8LBNOLI  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 4000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15090.0 lumens  
Efficiency: N/A  
Efficacy: 85.2 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

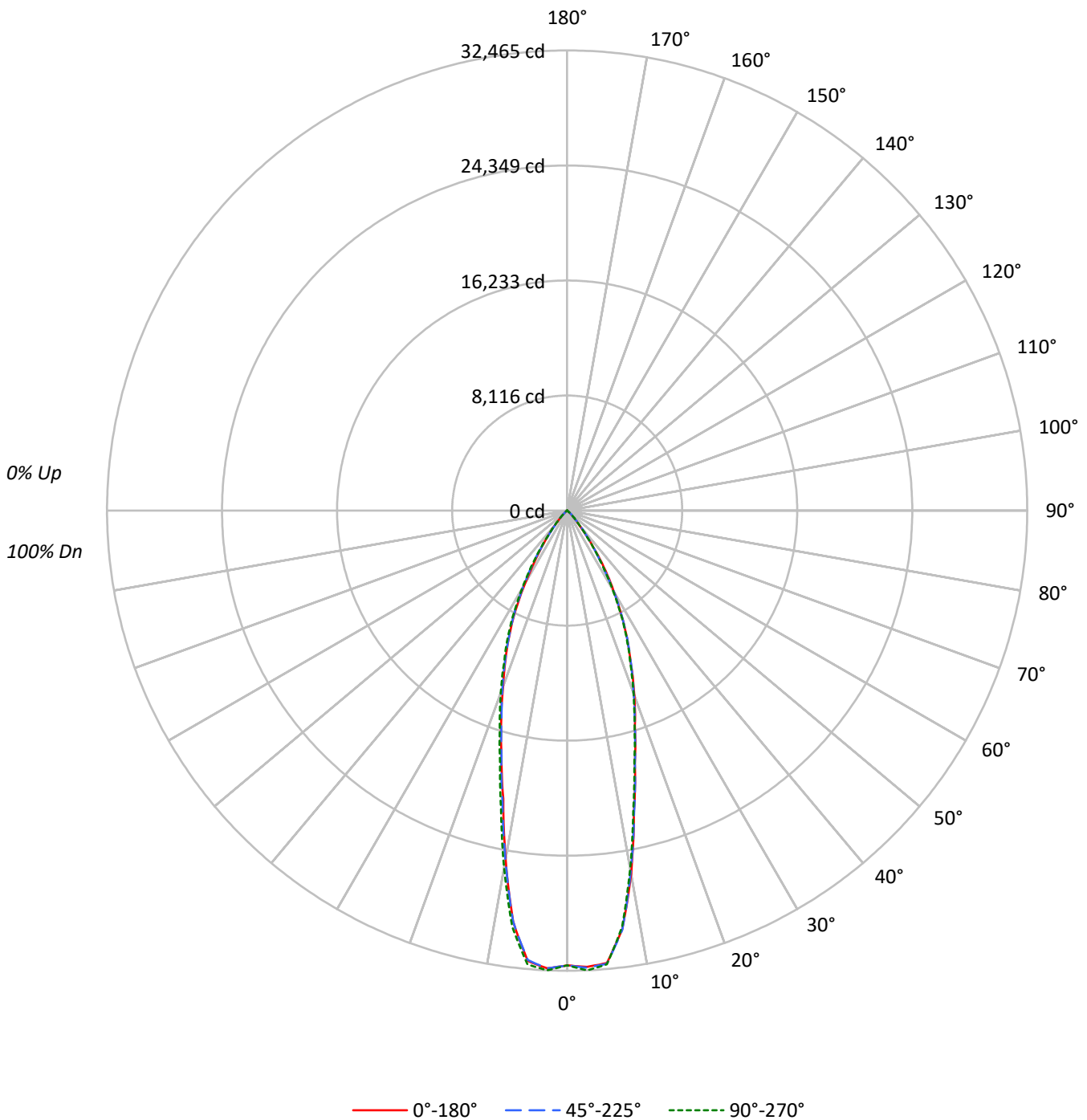
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P247827

CATALOG NUMBER: LD8B175D010 ER8B175940 8LBNOLI

### Luminous Intensity Polar Plot





TEST NUMBER: P247827

CATALOG NUMBER: LD8B175D010 ER8B175940 8LBNOLI

**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°	989352	989352	989352
5°	991980	994596	987529
10°	814529	801650	781689
15°	590200	584195	570745
20°	455313	449107	434291
25°	341901	337829	326574
30°	233309	226790	209068
35°	131883	126244	115568
40°	53067	55172	53107
45°	21883	22454	20784
50°	6659	6563	4778
55°	1892	1403	973
60°	1486	1363	370
65°	664	1394	292
70°	361	721	0
75°	2037	1203	834
80°	1616	710	1971
85°	2123	3927	5342



TEST NUMBER: P247827

CATALOG NUMBER: LD8B175D010 ER8B175940 8LBNOLI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2835.9	18.8
10°-20°	5139.1	34.1
20°-30°	4477.8	29.7
30°-40°	2132.8	14.1
40°-50°	443.2	2.9
50°-60°	35.2	0.2
60°-70°	13.6	0.1
70°-80°	6.0	0.0
80°-90°	6.3	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°	12452.8	82.5
0°-40°	14585.6	96.7
0°-60°	15064.0	99.8
0°-90°	15090.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15090.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	32084	32084	32084	32084	32084	
5°	32047	32098	32131	31830	31903	###
15°	18488	18490	18300	17920	17878	5221
25°	10049	10039	9929	9630	9598	4568
35°	3503	3385	3354	3184	3070	2243
45°	502	555	515	462	477	443
55°	35	27	26	24	18	38
65°	9	15	19	6	4	13
75°	17	11	10	12	7	8
85°	6	6	11	7	15	5
90°	0	0	0	0	0	



TEST NUMBER: P247827

CATALOG NUMBER: LD8B175D010 ER8B175940 8LBNOLI

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	32084.0	32084.0	32084.0	32084.0	32084.0	32084.0	32084.0	32084.0	32084.0
2.5°	32223.8	32229.8	32280.1	32423.9	32465.1	32432.9	32324.3	32285.1	32324.3
5°	32046.8	32025.7	32098.1	32204.7	32131.3	31999.5	31829.6	31790.4	31903.0
7.5°	29778.2	29764.1	29832.5	29824.5	29630.4	29382.0	29240.2	29128.6	29225.1
10°	26013.3	25887.6	25842.4	25921.8	25602.0	25259.1	25055.0	25130.4	24964.5
12.5°	21774.8	21757.7	21838.2	21740.6	21555.6	21345.4	21095.0	20960.3	20839.6
15°	18487.6	18532.8	18489.6	18449.4	18299.5	18141.7	17920.4	17826.9	17878.2
17.5°	15907.3	15894.2	15848.9	15916.3	15800.7	15574.4	15380.3	15413.5	15469.8
20°	13875.0	13819.7	13713.1	13741.2	13685.9	13510.0	13333.0	13214.3	13234.4
22.5°	11780.4	11828.6	11815.6	11732.1	11645.6	11516.9	11430.4	11275.6	11348.0
25°	10048.8	10056.8	10038.7	10026.6	9929.1	9805.4	9630.4	9593.2	9598.3
27.5°	8276.9	8315.1	8300.0	8248.8	8150.2	8046.6	7938.0	7852.6	7844.5
30°	6552.4	6606.7	6499.1	6425.7	6369.3	6351.2	6169.2	6041.5	5871.6
32.5°	5070.1	4989.7	4646.8	4647.8	4757.4	4800.6	4626.7	4337.1	4289.8
35°	3503.4	3489.4	3384.8	3352.6	3353.6	3311.4	3183.7	3071.0	3070.0
37.5°	2196.2	2248.5	2306.8	2293.7	2165.0	2034.3	1972.9	2039.3	2058.4
40°	1318.3	1386.7	1457.1	1465.1	1370.6	1219.8	1200.7	1262.0	1319.3
42.5°	825.6	854.7	902.0	911.1	843.7	788.4	753.2	797.4	797.4
45°	501.8	528.9	555.1	557.1	514.9	468.6	461.6	478.7	476.6
47.5°	295.6	296.6	306.7	299.7	285.6	263.5	254.4	263.5	265.5
50°	138.8	135.8	140.8	153.9	136.8	115.6	117.7	110.6	99.6
52.5°	33.2	30.2	36.2	39.2	38.2	40.2	38.2	38.2	29.2
55°	35.2	22.1	27.2	28.2	26.1	28.2	24.1	16.1	18.1
57.5°	24.1	25.1	25.1	28.2	24.1	30.2	25.1	18.1	20.1
60°	24.1	17.1	16.1	27.2	22.1	15.1	17.1	23.1	6.0
62.5°	18.1	17.1	19.1	27.2	19.1	22.1	17.1	27.2	18.1
65°	9.1	15.1	15.1	15.1	19.1	17.1	6.0	12.1	4.0
67.5°	13.1	7.0	6.0	13.1	16.1	11.1	5.0	5.0	9.1
70°	4.0	6.0	3.0	7.0	8.0	7.0	5.0	1.0	0.0
72.5°	7.0	3.0	7.0	6.0	10.1	7.0	6.0	5.0	4.0
75°	17.1	13.1	11.1	12.1	10.1	6.0	12.1	12.1	7.0
77.5°	0.0	0.0	2.0	0.0	0.0	0.0	1.0	0.0	0.0
80°	9.1	7.0	7.0	7.0	4.0	6.0	3.0	1.0	11.1
82.5°	9.1	11.1	11.1	5.0	13.1	8.0	7.0	2.0	11.1
85°	6.0	11.1	6.0	5.0	11.1	9.1	7.0	3.0	15.1
87.5°	0.0	6.0	6.0	4.0	6.0	2.0	5.0	3.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)