

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: P247791

Luminaire Tested: **LD8B175D010 ER8B175940 8LBW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247791  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-69)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B175D010 ER8B175940 8LBW0LI  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 4000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17225.0 lumens  
Efficiency: N/A  
Efficacy: 97.2 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

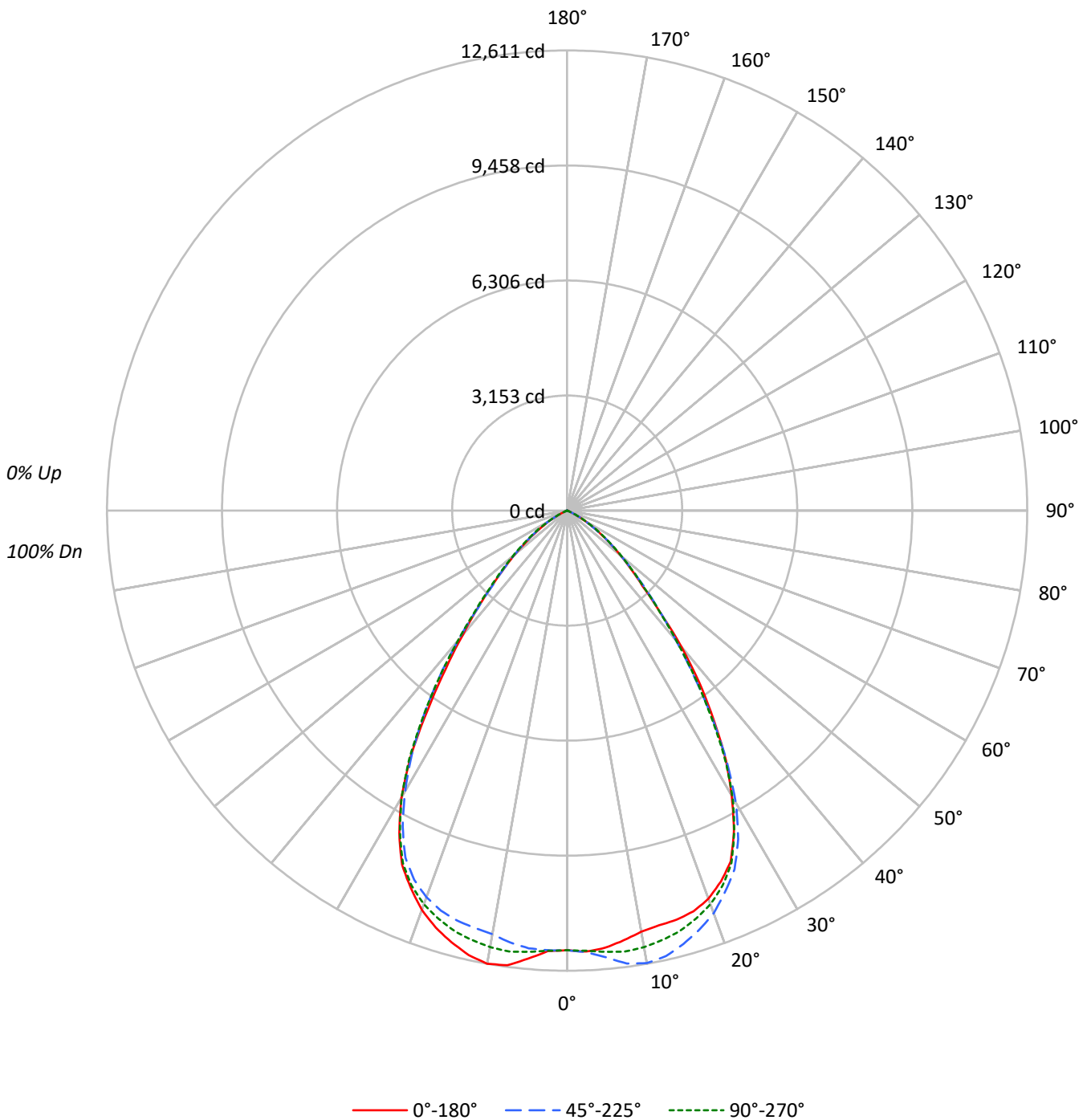
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92					92			
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	90	87	85	83					83			
3	100	92	86	82	97	91	85	81	88	84	80	86	82	79	83	80	77	76					76			
4	93	85	78	73	92	84	78	73	81	76	72	79	75	71	77	74	70	69					69			
5	88	78	71	66	86	77	71	66	75	70	65	73	69	65	72	68	64	63					63			
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57					57			
7	78	67	60	55	76	66	60	55	65	59	55	64	58	54	62	58	54	53					53			
8	73	62	55	51	72	62	55	51	60	55	50	59	54	50	58	54	50	48					48			
9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	45					45			
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41					41			

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

	0°	90°	180°
0°	371488	371488	371488
5°	372251	375770	381559
10°	366889	380397	394882
15°	370594	380803	390981
20°	371535	376717	382029
25°	360999	362537	364453
30°	321073	322935	323220
35°	263698	258021	250221
40°	195473	187704	179364
45°	127086	130199	125991
50°	91753	93345	89345
55°	61143	62928	57143
60°	34296	37022	32434
65°	10784	13426	11302
70°	2813	3264	2633
75°	1799	1322	2156
80°	355	1065	0
85°	3927	1061	1415



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1161.0	6.7
10°-20°	3362.3	19.5
20°-30°	4822.8	28.0
30°-40°	4255.8	24.7
40°-50°	2356.4	13.7
50°-60°	1038.4	6.0
60°-70°	209.8	1.2
70°-80°	15.7	0.1
80°-90°	2.9	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°	9346.0	54.3
0°-40°	13601.8	79.0
0°-60°	16996.6	98.7
0°-90°	17225.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17225.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	12047	12047	12047	12047	12047	
5°	12026	12290	12140	12041	12327	###
15°	11609	12300	11928	11637	12247	3275
25°	10610	10848	10655	10495	10712	4793
35°	7005	6904	6854	6859	6647	4345
45°	2914	3038	2986	2874	2889	2373
55°	1137	1132	1170	1110	1063	1042
65°	148	159	184	167	155	204
75°	15	15	11	12	18	15
85°	11	6	3	9	4	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°	12047.1	12047.1	12047.1	12047.1	12047.1	12047.1	12047.1	12047.1	12047.1
2.5°	12097.3	12047.1	12113.4	12072.2	12075.2	12012.9	12062.1	12109.4	12083.3
5°	12025.9	12072.2	12290.4	12284.4	12139.6	11951.5	12041.0	12256.2	12326.6
7.5°	11878.1	12045.0	12518.7	12561.9	12189.9	11793.6	11939.5	12388.0	12567.0
10°	11717.2	11957.6	12594.1	12678.6	12148.6	11626.7	11791.6	12356.8	12611.2
12.5°	11639.8	11872.1	12506.6	12588.1	12054.1	11546.3	11713.2	12238.1	12474.4
15°	11608.6	11783.6	12299.5	12373.9	11928.4	11501.0	11636.8	12066.2	12247.2
17.5°	11514.1	11634.8	12043.0	12090.3	11729.3	11390.4	11497.0	11825.8	11983.7
20°	11322.0	11402.5	11745.4	11770.5	11479.9	11192.3	11274.8	11534.2	11641.8
22.5°	11005.3	11058.6	11312.0	11321.0	11131.0	10881.6	10950.0	11153.1	11193.3
25°	10610.1	10615.1	10848.4	10805.1	10655.3	10424.0	10495.4	10669.4	10711.6
27.5°	9899.1	9916.2	10152.5	10095.2	9918.2	9717.1	9761.3	9920.2	9962.5
30°	9017.2	9112.7	9249.5	9221.3	9069.5	8867.4	8876.4	9032.3	9077.5
32.5°	8090.0	8061.9	8132.3	8111.1	8032.7	7872.8	7926.1	7966.3	7977.4
35°	7005.0	6981.9	6904.4	6806.9	6854.2	6916.5	6859.2	6770.7	6647.0
37.5°	5962.2	5832.5	5681.6	5580.1	5748.0	5813.4	5757.0	5565.0	5465.4
40°	4856.0	4719.3	4637.8	4612.7	4663.0	4711.2	4647.9	4554.4	4455.8
42.5°	3744.8	3743.8	3764.0	3758.9	3724.7	3655.3	3605.1	3645.3	3629.2
45°	2914.2	2959.5	3037.9	3051.0	2985.6	2884.1	2874.0	2912.2	2889.1
47.5°	2372.2	2388.3	2416.5	2456.7	2419.5	2368.2	2342.0	2354.1	2333.0
50°	1912.6	1916.7	1929.7	1959.9	1945.8	1910.6	1885.5	1870.4	1862.4
52.5°	1502.4	1493.3	1503.4	1513.4	1532.5	1509.4	1488.3	1456.1	1431.0
55°	1137.3	1130.3	1132.3	1140.3	1170.5	1144.4	1110.2	1089.1	1062.9
57.5°	825.6	802.5	807.5	834.6	862.8	851.7	821.6	787.4	755.2
60°	556.1	551.1	550.1	579.2	600.3	596.3	562.1	537.0	525.9
62.5°	328.8	325.8	333.9	346.9	372.1	354.0	330.8	317.8	313.7
65°	147.8	154.9	158.9	168.9	184.0	180.0	166.9	152.9	154.9
67.5°	64.4	49.3	55.3	62.3	58.3	61.3	54.3	57.3	55.3
70°	31.2	33.2	31.2	39.2	36.2	38.2	31.2	37.2	29.2
72.5°	22.1	19.1	24.1	28.2	24.1	28.2	25.1	19.1	15.1
75°	15.1	9.1	15.1	9.1	11.1	16.1	12.1	16.1	18.1
77.5°	2.0	7.0	3.0	4.0	2.0	5.0	5.0	3.0	9.1
80°	2.0	3.0	2.0	4.0	6.0	1.0	4.0	9.1	0.0
82.5°	7.0	0.0	1.0	0.0	1.0	2.0	0.0	2.0	0.0
85°	11.1	3.0	6.0	14.1	3.0	6.0	9.1	4.0	4.0
87.5°	0.0	0.0	0.0	0.0	0.0	1.0	0.0	3.0	6.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)