

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: P247788

Luminaire Tested: **LD8B175D010 ER8B175935 8LBW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247788  
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 ER8B175935 8LBW0LI  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 3500 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16492.0 lumens  
Efficiency: N/A  
Efficacy: 93.1 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

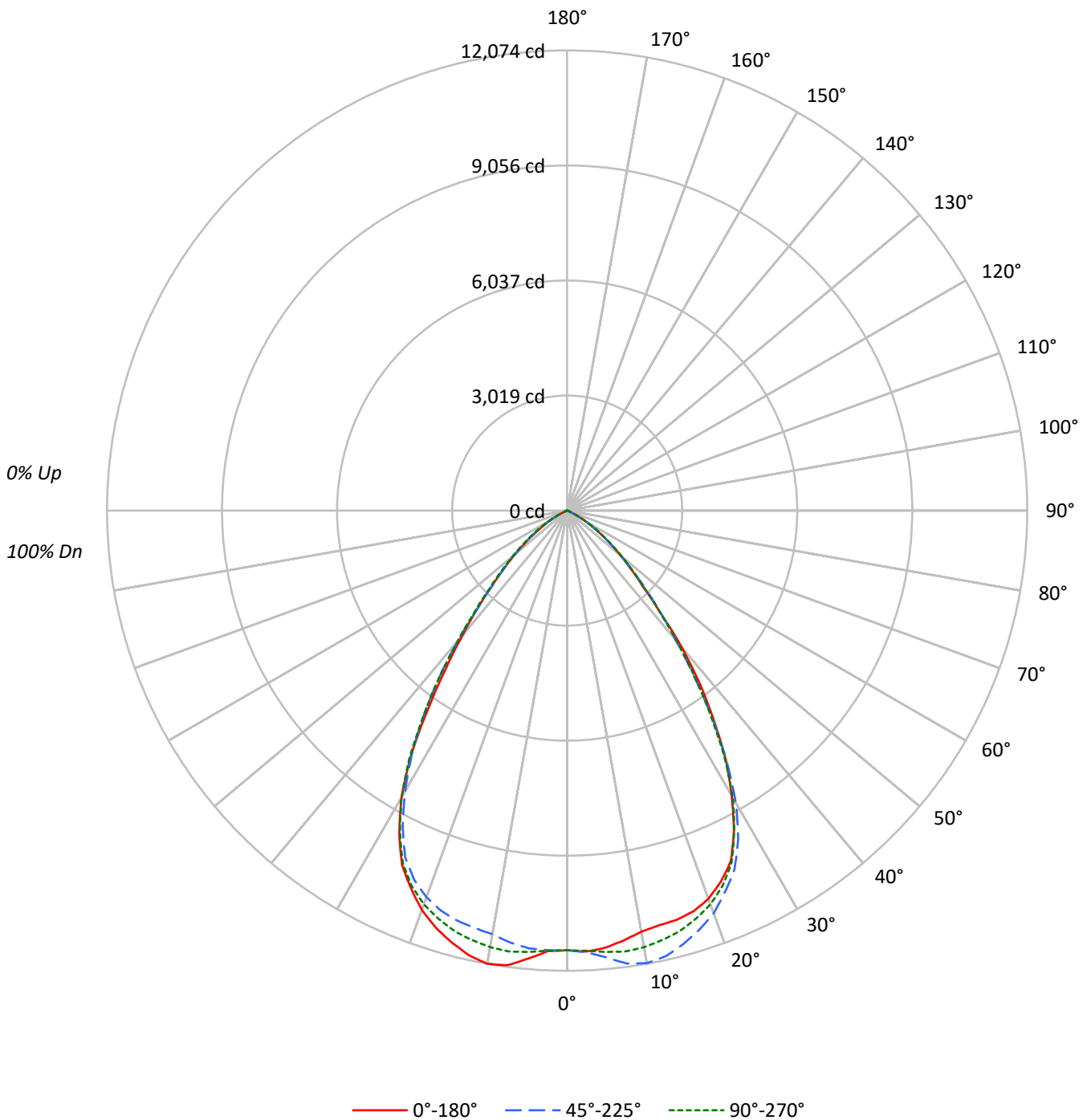
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	355678	355678	355678
5°	356412	359780	365323
10°	351277	364209	378077
15°	354824	364599	374342
20°	355725	360686	365773
25°	345637	347111	348944
30°	307411	309191	309465
35°	252476	247040	239571
40°	187157	179714	171731
45°	121678	124661	120627
50°	87853	89373	85540
55°	58541	60250	54713
60°	32835	35449	31052
65°	10325	12856	10821
70°	2687	3129	2515
75°	1716	1263	2061
80°	337	1030	0
85°	3750	1026	1380



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1111.5	6.7
10°-20°	3219.2	19.5
20°-30°	4617.6	28.0
30°-40°	4074.7	24.7
40°-50°	2256.1	13.7
50°-60°	994.2	6.0
60°-70°	200.9	1.2
70°-80°	15.1	0.1
80°-90°	2.8	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°	8948.3	54.3
0°-40°	13023.0	79.0
0°-60°	16273.3	98.7
0°-90°	16492.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16492.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	11534	11534	11534	11534	11534	
5°	11514	11767	11623	11529	11802	###
15°	11115	11776	11421	11142	11726	3136
25°	10159	10387	10202	10049	10256	4589
35°	6707	6611	6562	6567	6364	4160
45°	2790	2909	2859	2752	2766	2272
55°	1089	1084	1121	1063	1018	998
65°	142	152	176	160	148	195
75°	14	14	11	12	17	14
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°	11534.4	11534.4	11534.4	11534.4	11534.4	11534.4	11534.4	11534.4	11534.4
2.5°	11582.5	11534.4	11597.9	11558.5	11561.4	11501.7	11548.8	11594.1	11569.1
5°	11514.2	11558.5	11767.4	11761.6	11623.0	11442.9	11528.6	11734.7	11802.1
7.5°	11372.7	11532.5	11986.0	12027.4	11671.1	11291.8	11431.4	11860.8	12032.2
10°	11218.6	11448.7	12058.2	12139.0	11631.6	11132.0	11289.9	11830.9	12074.5
12.5°	11144.5	11366.9	11974.4	12052.4	11541.1	11054.9	11214.8	11717.3	11943.6
15°	11114.6	11282.1	11776.1	11847.3	11420.8	11011.6	11141.6	11552.7	11726.0
17.5°	11024.1	11139.7	11530.6	11575.8	11230.2	10905.7	11007.7	11322.6	11473.7
20°	10840.2	10917.2	11245.6	11269.6	10991.4	10716.0	10795.0	11043.4	11146.4
22.5°	10536.9	10588.0	10830.6	10839.3	10657.3	10418.5	10484.0	10678.5	10717.0
25°	10158.6	10163.4	10386.7	10345.3	10201.9	9980.4	10048.8	10215.4	10255.8
27.5°	9477.9	9494.2	9720.5	9665.6	9496.1	9303.6	9345.9	9498.1	9538.5
30°	8633.5	8724.9	8855.9	8828.9	8683.5	8490.0	8498.7	8647.9	8691.2
32.5°	7745.8	7718.8	7786.2	7766.0	7690.9	7537.8	7588.8	7627.3	7637.9
35°	6706.9	6684.8	6610.6	6517.2	6562.5	6622.2	6567.3	6482.6	6364.1
37.5°	5708.5	5584.3	5439.8	5342.6	5503.4	5566.0	5512.1	5328.2	5232.8
40°	4649.4	4518.4	4440.5	4416.4	4464.5	4510.7	4450.1	4360.5	4266.2
42.5°	3585.5	3584.5	3603.8	3599.0	3566.2	3499.8	3451.7	3490.2	3474.8
45°	2790.2	2833.5	2908.6	2921.2	2858.6	2761.3	2751.7	2788.3	2766.1
47.5°	2271.3	2286.7	2313.6	2352.1	2316.5	2267.4	2242.4	2253.9	2233.7
50°	1831.3	1835.1	1847.6	1876.5	1863.0	1829.3	1805.3	1790.8	1783.1
52.5°	1438.4	1429.8	1439.4	1449.0	1467.3	1445.2	1425.0	1394.1	1370.1
55°	1088.9	1082.2	1084.1	1091.8	1120.7	1095.7	1062.9	1042.7	1017.7
57.5°	790.5	768.3	773.1	799.1	826.1	815.5	786.6	753.9	723.1
60°	532.4	527.6	526.7	554.6	574.8	570.9	538.2	514.1	503.5
62.5°	314.8	311.9	319.7	332.2	356.2	338.9	316.8	304.2	300.4
65°	141.5	148.3	152.1	161.8	176.2	172.3	159.8	146.3	148.3
67.5°	61.6	47.2	53.0	59.7	55.8	58.7	52.0	54.9	53.0
70°	29.8	31.8	29.8	37.5	34.7	36.6	29.8	35.6	27.9
72.5°	21.2	18.3	23.1	27.0	23.1	27.0	24.1	18.3	14.4
75°	14.4	8.7	14.4	8.7	10.6	15.4	11.6	15.4	17.3
77.5°	1.9	6.7	2.9	3.9	1.9	4.8	4.8	2.9	8.7
80°	1.9	2.9	1.9	3.9	5.8	1.0	3.9	8.7	0.0
82.5°	6.7	0.0	1.0	0.0	1.0	1.9	0.0	1.9	0.0
85°	10.6	2.9	5.8	13.5	2.9	5.8	8.7	3.9	3.9
87.5°	0.0	0.0	0.0	0.0	0.0	1.0	0.0	2.9	5.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)