

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: P247932

Luminaire Tested: **LD8B175D010 ER8B175935 8LBW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247932  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-70)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B175D010 ER8B175935 8LBW0H  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15663.0 lumens  
Efficiency: N/A  
Efficacy: 88.4 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

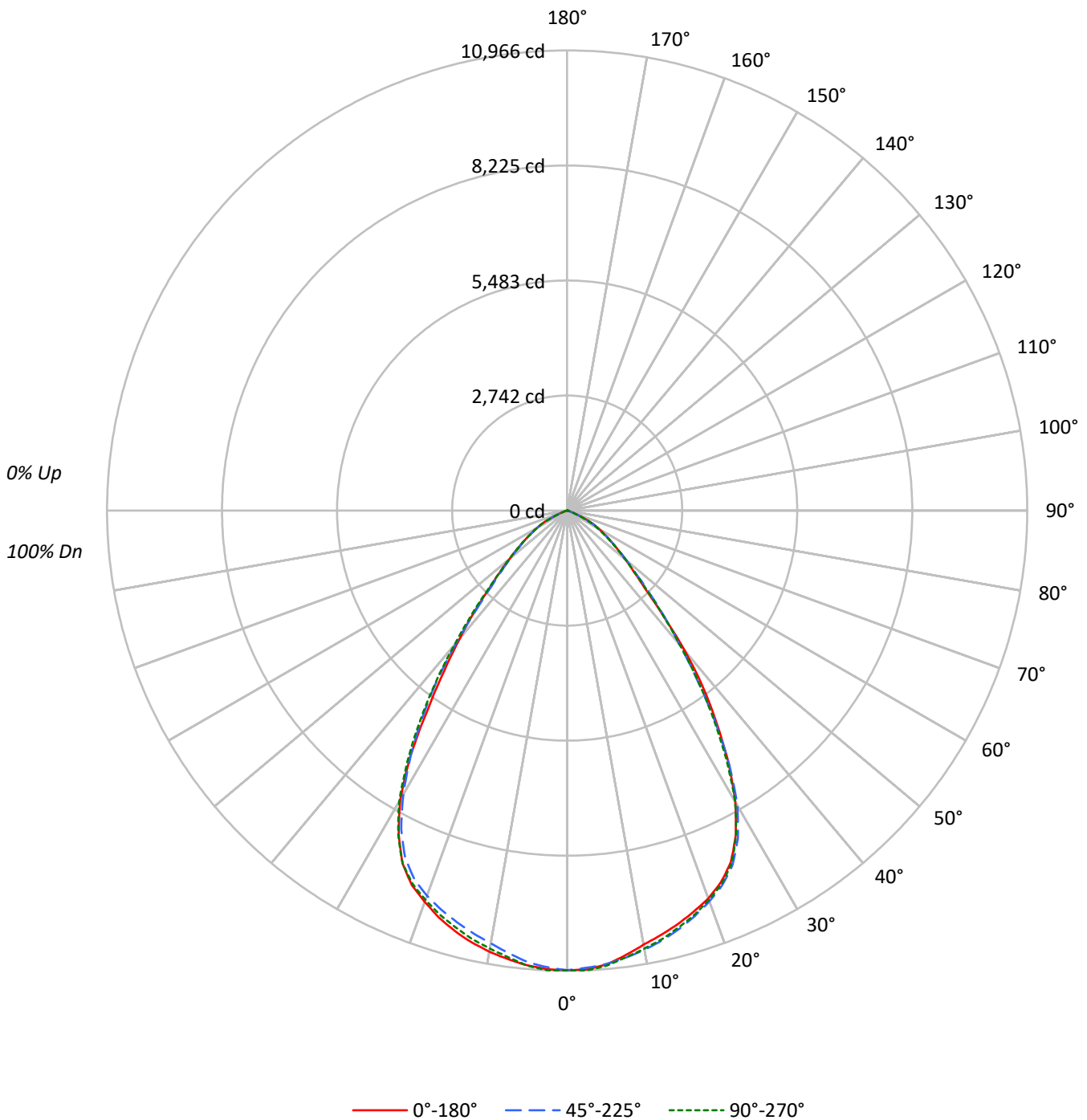
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82					82			
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74					74			
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67					67			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61					61			
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55					55			
7	76	65	58	53	75	65	58	53	63	57	53	62	57	53	61	56	52	51					51			
8	72	61	54	49	71	60	54	49	59	53	49	58	52	48	57	52	48	47					47			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	46	42	63	52	46	42	52	46	42	51	45	41	50	45	41	40					40			

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

	0°	90°	180°
0°	337747	337747	337747
5°	335998	336951	336771
10°	328817	331864	334184
15°	325594	328205	330941
20°	322804	323973	325584
25°	314318	315529	315791
30°	285299	285025	283102
35°	234896	229641	218152
40°	175644	167738	160142
45°	113741	116724	114077
50°	87066	86605	86236
55°	68223	66981	66412
60°	54272	51305	52015
65°	35614	31470	31827
70°	12758	11721	12153
75°	4587	5624	4587
80°	2912	4102	3427
85°	672	2052	1380



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1025.9	6.5
10°-20°	2892.3	18.5
20°-30°	4193.3	26.8
30°-40°	3769.2	24.1
40°-50°	2124.0	13.6
50°-60°	1131.7	7.2
60°-70°	452.3	2.9
70°-80°	60.2	0.4
80°-90°	14.2	0.1
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°	8111.4	51.8
0°-40°	11880.6	75.9
0°-60°	15136.3	96.6
0°-90°	15663.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15663.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	10953	10953	10953	10953	10953	
5°	10855	10845	10886	10800	10880	###
15°	10199	10317	10281	10154	10366	2878
25°	9238	9325	9274	9130	9281	4193
35°	6240	6150	6100	6016	5795	3872
45°	2608	2750	2677	2550	2616	2142
55°	1269	1273	1246	1217	1235	1157
65°	488	465	431	419	436	483
75°	38	49	47	46	38	57
85°	2	12	6	16	4	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°	10952.9	10952.9	10952.9	10952.9	10952.9	10952.9	10952.9	10952.9	10952.9
2.5°	10945.2	10922.1	10904.7	10937.5	10966.4	10887.4	10893.2	10927.8	10939.4
5°	10854.7	10833.5	10845.0	10872.0	10885.5	10786.3	10799.8	10858.5	10879.7
7.5°	10685.2	10701.6	10743.0	10777.6	10737.2	10620.7	10640.0	10741.1	10782.5
10°	10501.3	10539.8	10626.5	10666.9	10598.6	10449.3	10471.5	10607.2	10672.7
12.5°	10355.0	10397.3	10487.8	10518.6	10458.0	10297.2	10320.3	10460.9	10538.9
15°	10199.0	10237.5	10317.4	10342.5	10280.8	10132.6	10153.7	10288.5	10366.5
17.5°	10022.8	10056.5	10127.7	10150.9	10096.9	9940.0	9973.7	10098.9	10167.2
20°	9837.0	9861.0	9911.1	9924.6	9872.6	9754.2	9769.6	9877.4	9921.7
22.5°	9583.8	9614.6	9660.8	9675.2	9627.1	9497.1	9511.6	9617.5	9665.6
25°	9238.1	9283.4	9324.8	9343.1	9273.7	9101.4	9130.3	9220.8	9281.4
27.5°	8701.8	8738.4	8811.6	8813.5	8718.2	8539.1	8563.2	8679.7	8695.1
30°	8012.5	8046.2	8110.7	8096.2	8004.8	7792.0	7811.2	7924.8	7950.8
32.5°	7168.1	7180.6	7197.9	7193.1	7081.4	6981.3	6941.8	6955.3	6964.9
35°	6239.9	6262.1	6150.4	6089.7	6100.3	6109.0	6015.6	5877.0	5795.1
37.5°	5340.7	5234.8	5097.1	5049.9	5137.5	5166.4	5081.7	4874.7	4798.6
40°	4363.4	4269.1	4160.3	4168.9	4167.0	4187.2	4080.4	4004.3	3978.3
42.5°	3358.3	3359.2	3430.5	3381.4	3371.7	3231.2	3189.8	3232.1	3278.4
45°	2608.2	2694.9	2749.8	2735.3	2676.6	2550.5	2550.5	2624.6	2615.9
47.5°	2147.1	2177.9	2219.3	2216.4	2174.0	2081.6	2097.0	2148.0	2174.0
50°	1814.9	1828.4	1847.6	1831.3	1805.3	1747.5	1746.5	1782.2	1797.6
52.5°	1518.3	1526.0	1521.2	1512.6	1498.1	1467.3	1457.7	1487.5	1491.4
55°	1269.0	1283.4	1272.8	1248.8	1245.9	1217.9	1217.0	1241.1	1235.3
57.5°	1057.2	1042.7	1028.3	1008.1	1005.2	996.5	1006.1	1010.0	1004.2
60°	880.0	881.0	853.0	833.8	831.9	819.3	832.8	843.4	843.4
62.5°	708.6	704.8	687.4	658.6	663.4	658.6	664.3	666.3	657.6
65°	488.1	489.1	465.0	430.4	431.3	427.5	418.8	432.3	436.2
67.5°	260.0	258.0	239.7	227.2	222.4	224.3	234.0	236.9	226.3
70°	141.5	136.7	140.6	127.1	130.0	125.2	130.0	137.7	134.8
72.5°	72.2	77.0	69.3	63.5	71.2	70.3	81.8	75.1	67.4
75°	38.5	41.4	49.1	45.3	47.2	45.3	46.2	43.3	38.5
77.5°	27.9	30.8	35.6	34.7	33.7	31.8	35.6	39.5	31.8
80°	16.4	20.2	22.1	26.0	23.1	26.0	29.8	24.1	19.3
82.5°	10.6	16.4	16.4	17.3	25.0	16.4	27.0	24.1	19.3
85°	1.9	2.9	11.6	6.7	5.8	17.3	16.4	12.5	3.9
87.5°	0.0	6.7	15.4	7.7	12.5	11.6	16.4	17.3	3.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)