

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: P247881

Luminaire Tested: **LD8B175D010 ER8B175835 8LBSOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247881  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-91)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B175D010 ER8B175835 8LBS0LI  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3500 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20477.0 lumens  
Efficiency: N/A  
Efficacy: 115.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.24  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

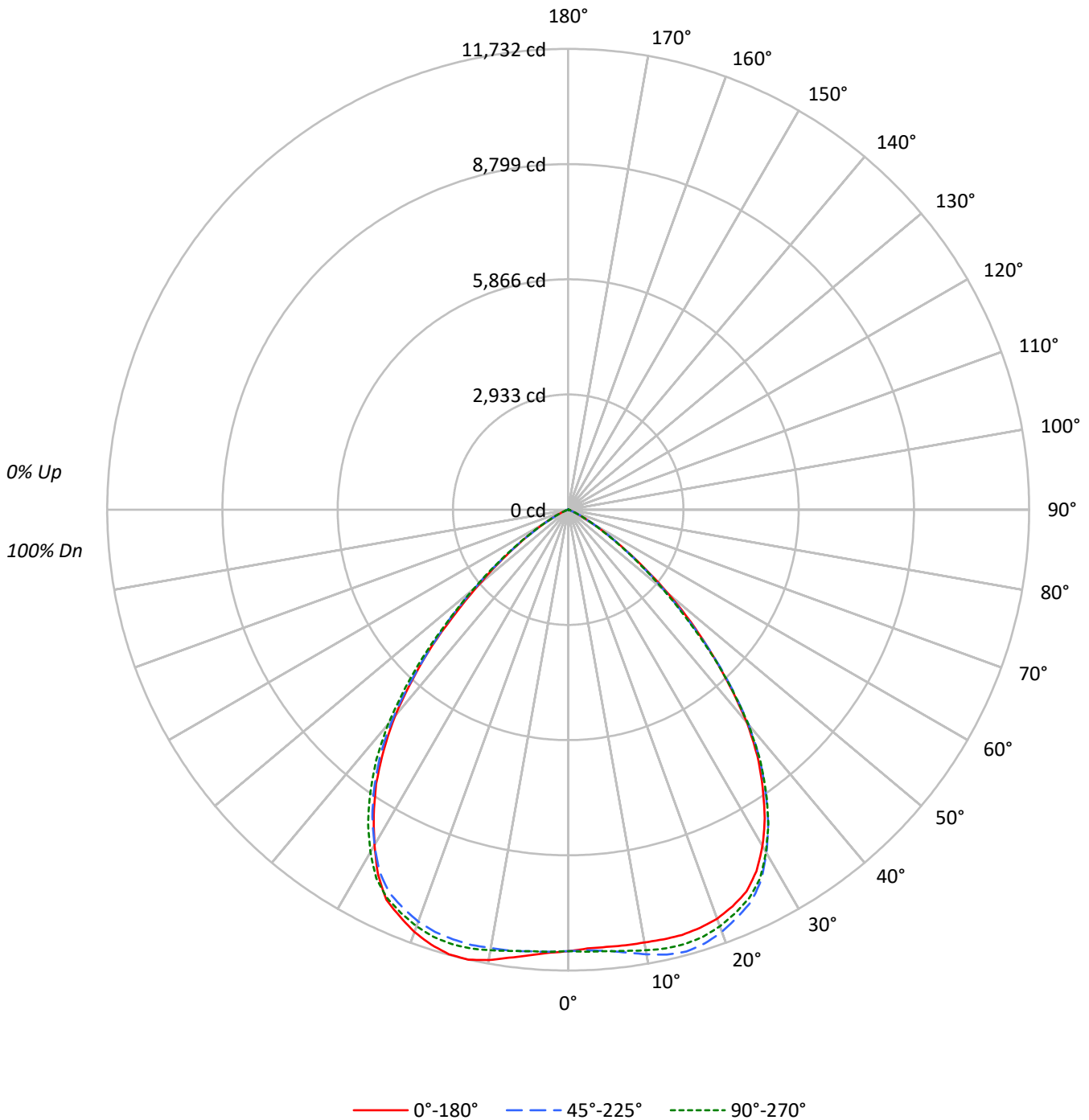
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82					82			
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73					73			
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66					66			
5	86	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59					59			
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53					53			
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	50	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37					37			

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

	0°	90°	180°
0°	346554	346554	346554
5°	345884	349206	352456
10°	350237	356638	364556
15°	357805	365553	374061
20°	363643	370350	375463
25°	365055	371009	372816
30°	352125	358275	350879
35°	324756	330452	320721
40°	284732	286870	275961
45°	223584	221761	213292
50°	158862	151441	141098
55°	94507	91110	85341
60°	47420	45471	45120
65°	19934	19197	19686
70°	7429	6410	6212
75°	2955	3229	3229
80°	3410	2397	799
85°	3609	6793	2795



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1080.8	5.3
10°-20°	3236.0	15.8
20°-30°	4973.4	24.3
30°-40°	5380.3	26.3
40°-50°	3878.0	18.9
50°-60°	1574.2	7.7
60°-70°	314.4	1.5
70°-80°	31.5	0.2
80°-90°	8.4	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°	9290.2	45.4
0°-40°	14670.5	71.6
0°-60°	20122.7	98.3
0°-90°	20477.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20477.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	11238	11238	11238	11238	11238	
5°	11174	11269	11281	11286	11386	###
15°	11208	11643	11451	11323	11717	3167
25°	10729	11015	10904	10764	10957	4904
35°	8627	8754	8778	8599	8520	5357
45°	5127	5152	5085	4915	4891	3955
55°	1758	1704	1695	1637	1587	1649
65°	273	296	263	251	270	325
75°	25	30	27	26	27	33
85°	10	15	19	9	8	8
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°	11238.5	11238.5	11238.5	11238.5	11238.5	11238.5	11238.5	11238.5	11238.5
2.5°	11180.9	11252.0	11228.3	11197.8	11262.2	11249.8	11263.3	11269.0	11290.4
5°	11174.1	11254.3	11269.0	11236.2	11281.4	11259.9	11285.9	11334.5	11386.4
7.5°	11185.4	11306.2	11369.5	11350.3	11328.8	11255.4	11323.2	11434.9	11503.8
10°	11185.4	11345.7	11492.5	11491.4	11389.8	11253.2	11328.8	11521.9	11642.7
12.5°	11203.5	11399.9	11600.9	11614.5	11441.7	11269.0	11350.3	11578.3	11731.9
15°	11208.0	11401.1	11642.7	11649.5	11450.7	11247.5	11323.2	11568.2	11717.2
17.5°	11160.6	11346.9	11576.1	11599.8	11399.9	11193.3	11270.1	11489.1	11607.7
20°	11081.5	11248.6	11434.9	11474.5	11285.9	11089.5	11157.2	11345.7	11441.7
22.5°	10930.3	11082.7	11236.2	11265.6	11114.3	10942.7	10976.5	11123.3	11203.5
25°	10729.3	10880.6	11014.9	11030.7	10904.3	10750.7	10764.3	10876.1	10957.4
27.5°	10372.5	10515.9	10637.8	10657.0	10581.4	10417.7	10392.8	10445.9	10479.8
30°	9889.3	9987.5	10089.1	10150.1	10062.0	9926.5	9856.5	9884.8	9854.3
32.5°	9309.0	9409.4	9471.5	9490.7	9477.2	9358.6	9276.2	9205.1	9209.6
35°	8627.0	8718.5	8753.5	8788.5	8778.3	8685.7	8598.8	8532.2	8519.8
37.5°	7912.3	7973.3	8012.8	8039.9	8017.3	7958.6	7845.7	7730.6	7711.4
40°	7073.4	7166.0	7134.4	7148.0	7126.5	7052.0	6939.1	6873.6	6855.5
42.5°	6088.9	6170.2	6163.4	6168.0	6120.5	6018.9	5920.7	5884.6	5865.4
45°	5127.0	5166.5	5151.8	5104.4	5085.2	5022.0	4914.7	4845.8	4891.0
47.5°	4221.5	4207.9	4109.7	4071.3	4043.1	4052.1	4028.4	3907.6	3842.1
50°	3311.5	3276.5	3182.8	3125.2	3156.8	3181.6	3093.6	3021.3	2941.2
52.5°	2455.7	2462.4	2373.2	2310.0	2339.4	2343.9	2292.0	2251.3	2227.6
55°	1757.9	1757.9	1703.7	1683.4	1694.7	1673.2	1637.1	1623.6	1587.4
57.5°	1195.7	1203.6	1200.2	1176.5	1123.4	1104.2	1083.9	1104.2	1116.6
60°	768.9	788.1	784.7	782.4	737.3	692.1	711.3	729.4	731.6
62.5°	473.1	482.1	497.9	484.4	461.8	425.6	421.1	448.2	473.1
65°	273.2	283.4	295.8	286.8	263.1	257.4	250.6	265.3	269.8
67.5°	155.8	151.3	152.4	145.6	138.9	131.0	132.1	138.9	149.0
70°	82.4	71.1	72.3	65.5	71.1	63.2	61.0	66.6	68.9
72.5°	41.8	40.6	46.3	46.3	49.7	44.0	44.0	41.8	47.4
75°	24.8	28.2	30.5	33.9	27.1	26.0	26.0	26.0	27.1
77.5°	6.8	3.4	4.5	14.7	5.6	11.3	5.6	4.5	10.2
80°	19.2	11.3	6.8	12.4	13.5	6.8	16.9	15.8	4.5
82.5°	6.8	0.0	12.4	13.5	11.3	11.3	13.5	13.5	12.4
85°	10.2	6.8	14.7	16.9	19.2	11.3	9.0	5.6	7.9
87.5°	4.5	0.0	6.8	5.6	3.4	1.1	3.4	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)