

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: P247887

Luminaire Tested: **LD8B175D010 ER8B175850 8LBSOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247887  
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 ER8B175850 8LBS0LI  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 5000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20741.0 lumens  
Efficiency: N/A  
Efficacy: 117.0 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

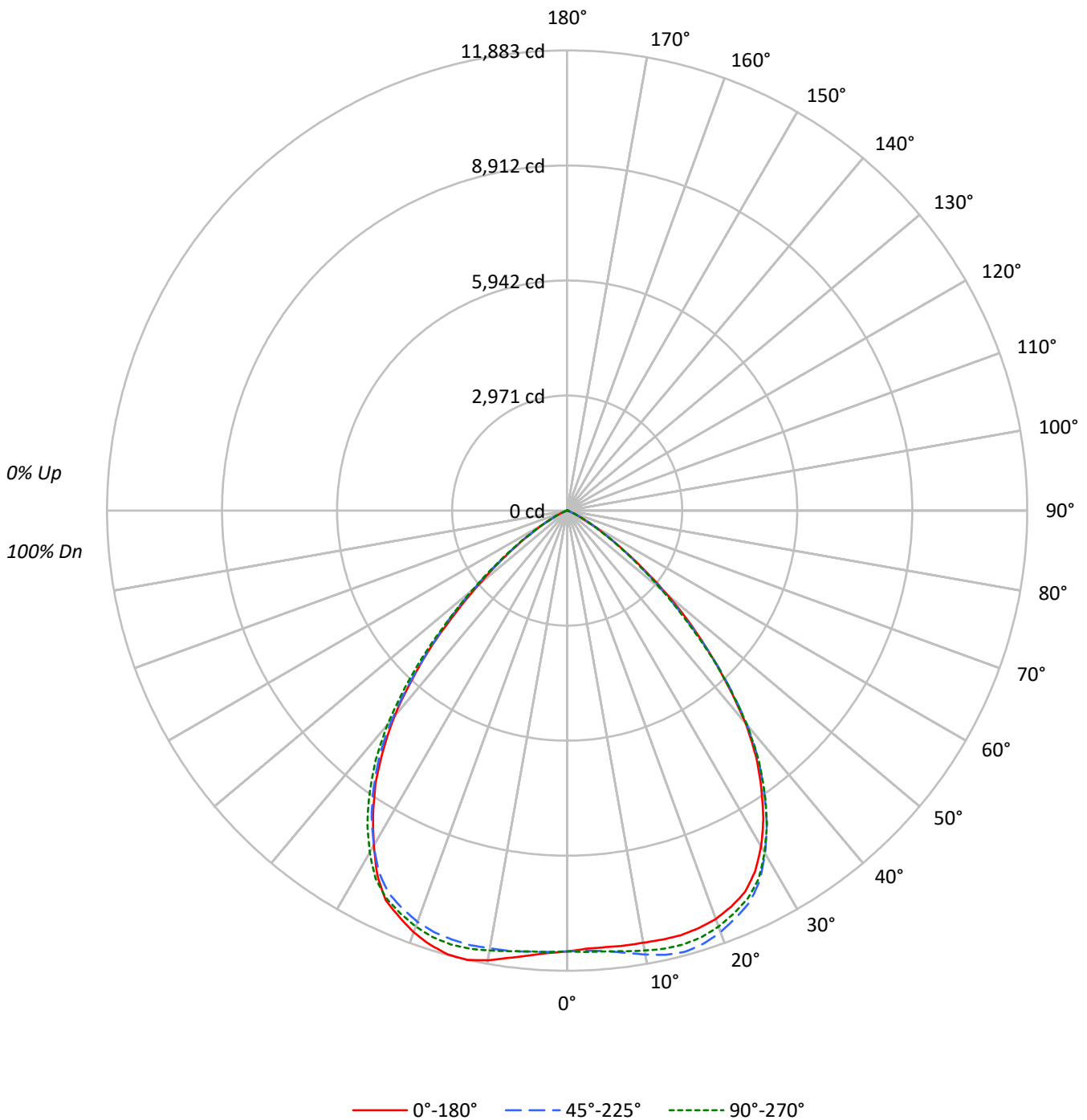
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	351022	351022	351022
5°	350345	353706	357000
10°	354753	361234	369256
15°	362418	370269	378885
20°	368332	375125	380303
25°	369760	375793	377620
30°	356665	362893	355401
35°	328942	334713	324854
40°	288403	290569	279519
45°	226467	224622	216044
50°	160910	153393	142916
55°	95728	92282	86443
60°	48031	46057	45706
65°	20197	19445	19941
70°	7528	6491	6293
75°	3002	3265	3265
80°	3445	2433	817
85°	3644	6864	2830



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1094.7	5.3
10°-20°	3277.7	15.8
20°-30°	5037.5	24.3
30°-40°	5449.7	26.3
40°-50°	3928.0	18.9
50°-60°	1594.5	7.7
60°-70°	318.5	1.5
70°-80°	31.9	0.2
80°-90°	8.5	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°	9410.0	45.4
0°-40°	14859.6	71.6
0°-60°	20382.1	98.3
0°-90°	20741.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20741.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	11383	11383	11383	11383	11383	
5°	11318	11414	11427	11431	11533	###
15°	11352	11793	11598	11469	11868	3208
25°	10868	11157	11045	10903	11099	4967
35°	8738	8866	8892	8710	8630	5426
45°	5193	5218	5151	4978	4954	4006
55°	1781	1726	1716	1658	1608	1670
65°	277	300	266	254	273	329
75°	25	31	27	26	27	33
85°	10	15	19	9	8	9
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°	11383.4	11383.4	11383.4	11383.4	11383.4	11383.4	11383.4	11383.4	11383.4
2.5°	11325.1	11397.1	11373.1	11342.2	11407.4	11394.8	11408.5	11414.3	11436.0
5°	11318.2	11399.4	11414.3	11381.1	11426.8	11405.1	11431.4	11480.6	11533.2
7.5°	11329.6	11452.0	11516.0	11496.6	11474.9	11400.5	11469.1	11582.4	11652.1
10°	11329.6	11492.0	11640.7	11639.5	11536.6	11398.2	11474.9	11670.4	11792.8
12.5°	11347.9	11546.9	11750.5	11764.2	11589.2	11414.3	11496.6	11727.6	11883.1
15°	11352.5	11548.1	11792.8	11799.6	11598.4	11392.5	11469.1	11717.3	11868.3
17.5°	11304.5	11493.2	11725.3	11749.3	11546.9	11337.6	11415.4	11637.3	11757.3
20°	11224.4	11393.7	11582.4	11622.4	11431.4	11232.4	11301.0	11492.0	11589.2
22.5°	11071.2	11225.6	11381.1	11410.8	11257.6	11083.8	11118.1	11266.7	11347.9
25°	10867.6	11020.9	11156.9	11173.0	11044.9	10889.3	10903.1	11016.3	11098.6
27.5°	10506.2	10651.5	10775.0	10794.4	10717.8	10552.0	10526.8	10580.6	10614.9
30°	10016.8	10116.3	10219.2	10280.9	10191.7	10054.5	9983.6	10012.2	9981.3
32.5°	9429.0	9530.7	9593.6	9613.1	9599.4	9479.3	9395.8	9323.8	9328.3
35°	8738.2	8830.9	8866.3	8901.8	8891.5	8797.7	8709.6	8642.2	8629.6
37.5°	8014.3	8076.1	8116.1	8143.6	8120.7	8061.2	7946.9	7830.2	7810.8
40°	7164.6	7258.4	7226.4	7240.1	7218.4	7142.9	7028.6	6962.2	6943.9
42.5°	6167.4	6249.8	6242.9	6247.5	6199.4	6096.5	5997.0	5960.4	5941.0
45°	5193.1	5233.1	5218.2	5170.2	5150.8	5086.7	4978.1	4908.3	4954.1
47.5°	4275.9	4262.2	4162.7	4123.8	4095.2	4104.4	4080.4	3958.0	3891.7
50°	3354.2	3318.7	3223.8	3165.5	3197.5	3222.7	3133.5	3060.3	2979.1
52.5°	2487.3	2494.2	2403.8	2339.8	2369.5	2374.1	2321.5	2280.3	2256.3
55°	1780.6	1780.6	1725.7	1705.1	1716.5	1694.8	1658.2	1644.5	1607.9
57.5°	1211.1	1219.1	1215.6	1191.6	1137.9	1118.4	1097.9	1118.4	1131.0
60°	778.8	798.2	794.8	792.5	746.8	701.0	720.5	738.8	741.1
62.5°	479.2	488.3	504.3	490.6	467.7	431.1	426.6	454.0	479.2
65°	276.8	287.0	299.6	290.5	266.5	260.7	253.9	268.7	273.3
67.5°	157.8	153.2	154.4	147.5	140.7	132.7	133.8	140.7	151.0
70°	83.5	72.0	73.2	66.3	72.0	64.0	61.8	67.5	69.8
72.5°	42.3	41.2	46.9	46.9	50.3	44.6	44.6	42.3	48.0
75°	25.2	28.6	30.9	34.3	27.4	26.3	26.3	26.3	27.4
77.5°	6.9	3.4	4.6	14.9	5.7	11.4	5.7	4.6	10.3
80°	19.4	11.4	6.9	12.6	13.7	6.9	17.2	16.0	4.6
82.5°	6.9	0.0	12.6	13.7	11.4	11.4	13.7	13.7	12.6
85°	10.3	6.9	14.9	17.2	19.4	11.4	9.1	5.7	8.0
87.5°	4.6	0.0	6.9	5.7	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)