

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: P247911

Luminaire Tested: **LD8B175D010 ER8B175827 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247911
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 ER8B175827 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17231.0 lumens
Efficiency: N/A
Efficacy: 97.2 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

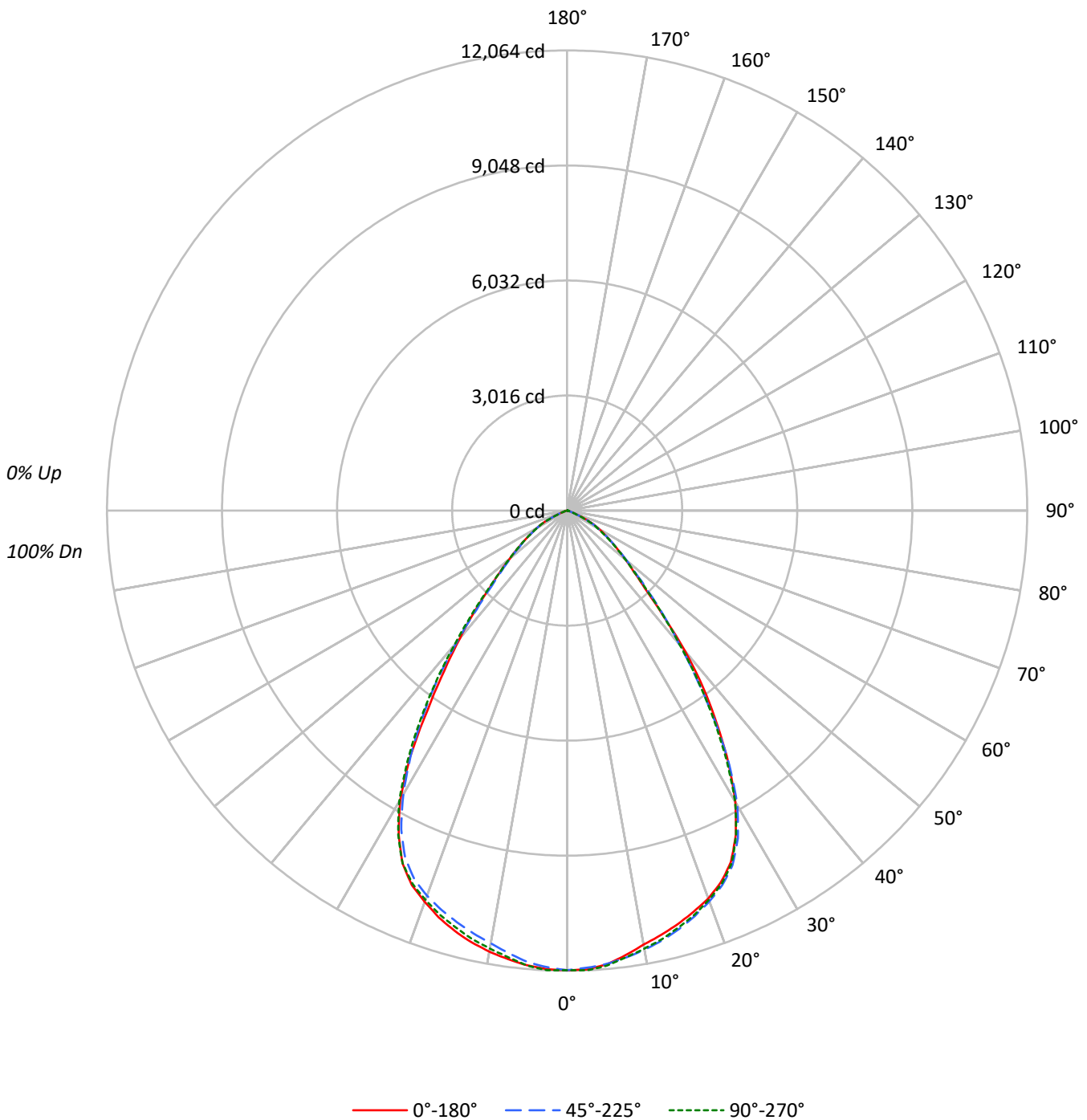
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P247911

CATALOG NUMBER: LD8B175D010 ER8B175827 8LBW0H

Luminous Intensity Polar Plot





TEST NUMBER: P247911

CATALOG NUMBER: LD8B175D010 ER8B175827 8LBW0H

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°	371556	371556	371556
5°	369632	370682	370483
10°	361735	365086	367637
15°	358188	361062	364072
20°	355118	356404	358179
25°	345784	347117	347407
30°	313859	313556	311445
35°	258412	252630	239993
40°	193227	184532	176175
45°	125128	128407	125498
50°	95782	95274	94866
55°	75051	73685	73056
60°	59705	56437	57226
65°	39182	34622	35009
70°	14038	12893	13371
75°	5052	6183	5052
80°	3196	4511	3765
85°	743	2264	1486



TEST NUMBER: P247911

CATALOG NUMBER: LD8B175D010 ER8B175827 8LBW0H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1128.6	6.5
10°-20°	3181.8	18.5
20°-30°	4613.0	26.8
30°-40°	4146.5	24.1
40°-50°	2336.6	13.6
50°-60°	1245.0	7.2
60°-70°	497.6	2.9
70°-80°	66.3	0.4
80°-90°	15.6	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°	8923.4	51.8
0°-40°	13070.0	75.9
0°-60°	16651.5	96.6
0°-90°	17231.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17231.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12049	12049	12049	12049	12049	
5°	11941	11931	11975	11881	11969	###
15°	11220	11350	11310	11170	11404	3166
25°	10163	10258	10202	10044	10211	4613
35°	6865	6766	6711	6618	6375	4259
45°	2869	3025	2944	2806	2878	2357
55°	1396	1400	1371	1339	1359	1272
65°	537	512	474	461	480	532
75°	42	54	52	51	42	63
85°	2	13	6	18	4	6
90°	0	0	0	0	0	



TEST NUMBER: P247911

CATALOG NUMBER: LD8B175D010 ER8B175827 8LBW0H

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	12049.3	12049.3	12049.3	12049.3	12049.3	12049.3	12049.3	12049.3	12049.3
2.5°	12040.9	12015.5	11996.4	12032.4	12064.2	11977.3	11983.7	12021.8	12034.5
5°	11941.3	11918.0	11930.7	11960.4	11975.2	11866.1	11880.9	11945.5	11968.8
7.5°	11754.9	11772.9	11818.4	11856.6	11812.1	11683.9	11705.1	11816.3	11861.9
10°	11552.6	11595.0	11690.3	11734.8	11659.6	11495.4	11519.8	11669.1	11741.1
12.5°	11391.6	11438.2	11537.8	11571.7	11504.9	11328.0	11353.5	11508.1	11593.9
15°	11220.0	11262.4	11350.3	11377.8	11310.0	11146.9	11170.2	11318.5	11404.3
17.5°	11026.2	11063.2	11141.6	11167.0	11107.7	10935.1	10972.2	11109.8	11185.0
20°	10821.7	10848.2	10903.3	10918.1	10860.9	10730.7	10747.6	10866.2	10915.0
22.5°	10543.2	10577.1	10627.9	10643.8	10590.8	10447.9	10463.7	10580.3	10633.2
25°	10162.9	10212.7	10258.3	10278.4	10202.1	10012.5	10044.3	10143.9	10210.6
27.5°	9573.0	9613.2	9693.7	9695.8	9591.0	9394.0	9420.4	9548.6	9565.5
30°	8814.6	8851.7	8922.6	8906.7	8806.1	8572.0	8593.2	8718.2	8746.8
32.5°	7885.7	7899.4	7918.5	7913.2	7790.3	7680.2	7636.8	7651.6	7662.2
35°	6864.6	6889.0	6766.1	6699.4	6711.0	6720.6	6617.8	6465.3	6375.3
37.5°	5875.3	5758.8	5607.4	5555.5	5651.8	5683.6	5590.4	5362.7	5279.0
40°	4800.2	4696.4	4576.8	4586.3	4584.2	4606.4	4488.8	4405.2	4376.6
42.5°	3694.5	3695.5	3773.9	3719.9	3709.3	3554.6	3509.1	3555.7	3606.5
45°	2869.3	2964.7	3025.0	3009.2	2944.5	2805.8	2805.8	2887.4	2877.8
47.5°	2362.0	2395.9	2441.4	2438.3	2391.7	2290.0	2306.9	2363.1	2391.7
50°	1996.6	2011.4	2032.6	2014.6	1986.0	1922.4	1921.4	1960.6	1977.5
52.5°	1670.3	1678.8	1673.5	1664.0	1648.1	1614.2	1603.6	1636.4	1640.7
55°	1396.0	1411.9	1400.2	1373.8	1370.6	1339.9	1338.8	1365.3	1358.9
57.5°	1163.0	1147.1	1131.2	1109.0	1105.8	1096.3	1106.9	1111.1	1104.7
60°	968.1	969.2	938.4	917.3	915.1	901.4	916.2	927.9	927.9
62.5°	779.6	775.3	756.3	724.5	729.8	724.5	730.8	733.0	723.4
65°	537.0	538.1	511.6	473.5	474.5	470.3	460.7	475.6	479.8
67.5°	286.0	283.9	263.7	250.0	244.7	246.8	257.4	260.6	248.9
70°	155.7	150.4	154.6	139.8	143.0	137.7	143.0	151.5	148.3
72.5°	79.4	84.7	76.3	69.9	78.4	77.3	90.0	82.6	74.1
75°	42.4	45.5	54.0	49.8	51.9	49.8	50.8	47.7	42.4
77.5°	30.7	33.9	39.2	38.1	37.1	35.0	39.2	43.4	35.0
80°	18.0	22.2	24.4	28.6	25.4	28.6	32.8	26.5	21.2
82.5°	11.7	18.0	18.0	19.1	27.5	18.0	29.7	26.5	21.2
85°	2.1	3.2	12.7	7.4	6.4	19.1	18.0	13.8	4.2
87.5°	0.0	7.4	16.9	8.5	13.8	12.7	18.0	19.1	4.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)