

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: P247935

Luminaire Tested: **LD8B175D010 ER8B175940 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247935
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 ER8B175940 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16359.0 lumens
Efficiency: N/A
Efficacy: 92.3 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

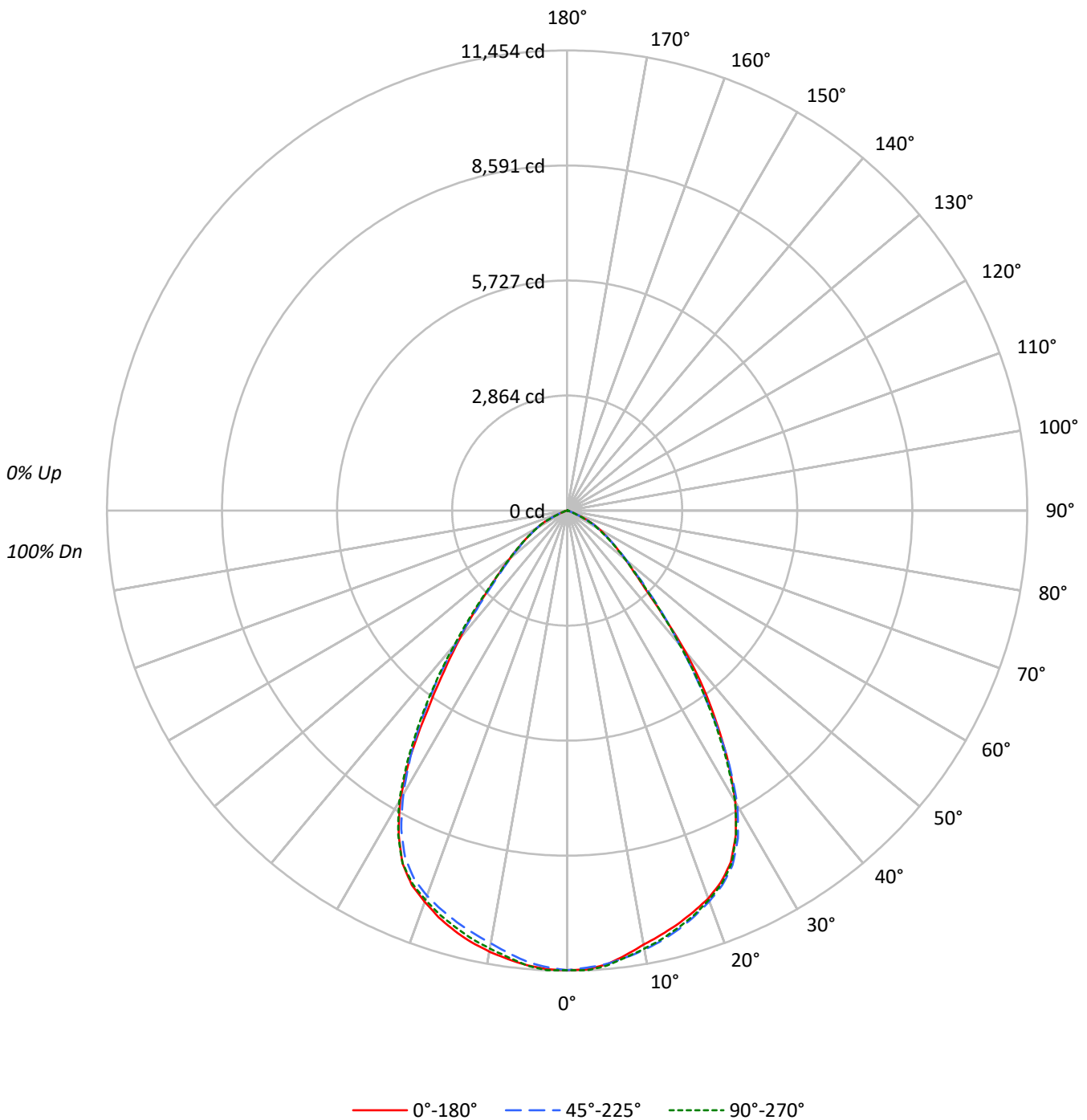
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P247935

CATALOG NUMBER: LD8B175D010 ER8B175940 8LBW0H

Luminous Intensity Polar Plot





TEST NUMBER: P247935

CATALOG NUMBER: LD8B175D010 ER8B175940 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°	352755	352755	352755
5°	350927	351923	351735
10°	343430	346608	349032
15°	340062	342791	345649
20°	337148	338369	340052
25°	328285	329551	329826
30°	297975	297690	295682
35°	245335	239846	227845
40°	183449	175193	167259
45°	118796	121909	119149
50°	90932	90453	90064
55°	71255	69954	69363
60°	56683	53581	54327
65°	37198	32871	33236
70°	13326	12244	12694
75°	4790	5874	4790
80°	3037	4280	3569
85°	708	2123	1415



TEST NUMBER: P247935

CATALOG NUMBER: LD8B175D010 ER8B175940 8LBW0H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1071.5	6.5
10°-20°	3020.8	18.5
20°-30°	4379.6	26.8
30°-40°	3936.7	24.1
40°-50°	2218.4	13.6
50°-60°	1182.0	7.2
60°-70°	472.4	2.9
70°-80°	62.9	0.4
80°-90°	14.8	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°	8471.9	51.8
0°-40°	12408.5	75.9
0°-60°	15808.9	96.6
0°-90°	16359.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16359.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11440	11440	11440	11440	11440	
5°	11337	11327	11369	11280	11363	###
15°	10652	10776	10738	10605	10827	3006
25°	9649	9739	9686	9536	9694	4380
35°	6517	6424	6371	6283	6053	4044
45°	2724	2872	2796	2664	2732	2238
55°	1325	1329	1301	1271	1290	1208
65°	510	486	450	437	456	505
75°	40	51	49	48	40	60
85°	2	12	6	17	4	6
90°	0	0	0	0	0	



TEST NUMBER: P247935

CATALOG NUMBER: LD8B175D010 ER8B175940 8LBW0H

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	11439.6	11439.6	11439.6	11439.6	11439.6	11439.6	11439.6	11439.6	11439.6
2.5°	11431.5	11407.4	11389.3	11423.5	11453.7	11371.2	11377.2	11413.4	11425.5
5°	11337.0	11314.9	11326.9	11355.1	11369.2	11265.6	11279.7	11341.0	11363.1
7.5°	11160.0	11177.1	11220.4	11256.6	11214.3	11092.6	11112.8	11218.3	11261.6
10°	10968.0	11008.2	11098.7	11140.9	11069.5	10913.6	10936.8	11078.6	11146.9
12.5°	10815.1	10859.3	10953.9	10986.1	10922.7	10754.8	10778.9	10925.7	11007.2
15°	10652.2	10692.4	10775.9	10802.0	10737.7	10582.8	10604.9	10745.7	10827.2
17.5°	10468.2	10503.4	10577.8	10601.9	10545.6	10381.7	10416.9	10547.6	10619.0
20°	10274.1	10299.2	10351.5	10365.6	10311.3	10187.6	10203.7	10316.3	10362.6
22.5°	10009.6	10041.8	10090.1	10105.2	10054.9	9919.1	9934.2	10044.8	10095.1
25°	9648.6	9695.9	9739.1	9758.2	9685.8	9505.8	9536.0	9630.5	9693.9
27.5°	9088.5	9126.7	9203.1	9205.2	9105.6	8918.6	8943.7	9065.4	9081.5
30°	8368.5	8403.7	8471.1	8456.0	8360.5	8138.2	8158.3	8277.0	8304.1
32.5°	7486.6	7499.7	7517.8	7512.7	7396.1	7291.5	7250.3	7264.4	7274.4
35°	6517.2	6540.3	6423.7	6360.3	6371.4	6380.5	6282.9	6138.1	6052.6
37.5°	5578.0	5467.4	5323.6	5274.3	5365.8	5396.0	5307.5	5091.3	5011.9
40°	4557.3	4458.8	4345.1	4354.2	4352.2	4373.3	4261.7	4182.2	4155.1
42.5°	3507.5	3508.5	3582.9	3531.6	3521.6	3374.8	3331.5	3375.8	3424.0
45°	2724.1	2814.6	2872.0	2856.9	2795.5	2663.8	2663.8	2741.2	2732.2
47.5°	2242.5	2274.6	2317.9	2314.9	2270.6	2174.1	2190.2	2243.5	2270.6
50°	1895.5	1909.6	1929.7	1912.6	1885.5	1825.1	1824.1	1861.3	1877.4
52.5°	1585.8	1593.9	1588.8	1579.8	1564.7	1532.5	1522.5	1553.6	1557.7
55°	1325.4	1340.4	1329.4	1304.2	1301.2	1272.1	1271.1	1296.2	1290.2
57.5°	1104.1	1089.1	1074.0	1052.9	1049.8	1040.8	1050.8	1054.9	1048.8
60°	919.1	920.1	891.0	870.8	868.8	855.8	869.8	880.9	880.9
62.5°	740.1	736.1	718.0	687.8	692.9	687.8	693.9	695.9	686.8
65°	509.8	510.8	485.7	449.5	450.5	446.5	437.4	451.5	455.5
67.5°	271.5	269.5	250.4	237.3	232.3	234.3	244.4	247.4	236.3
70°	147.8	142.8	146.8	132.7	135.8	130.7	135.8	143.8	140.8
72.5°	75.4	80.4	72.4	66.4	74.4	73.4	85.5	78.4	70.4
75°	40.2	43.2	51.3	47.3	49.3	47.3	48.3	45.3	40.2
77.5°	29.2	32.2	37.2	36.2	35.2	33.2	37.2	41.2	33.2
80°	17.1	21.1	23.1	27.2	24.1	27.2	31.2	25.1	20.1
82.5°	11.1	17.1	17.1	18.1	26.1	17.1	28.2	25.1	20.1
85°	2.0	3.0	12.1	7.0	6.0	18.1	17.1	13.1	4.0
87.5°	0.0	7.0	16.1	8.0	13.1	12.1	17.1	18.1	4.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)