

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: P247968

Luminaire Tested: **LD8B175D010 ER8B175935 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247968
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-92)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175935 8LBS0H
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 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: 16972.0 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.22
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

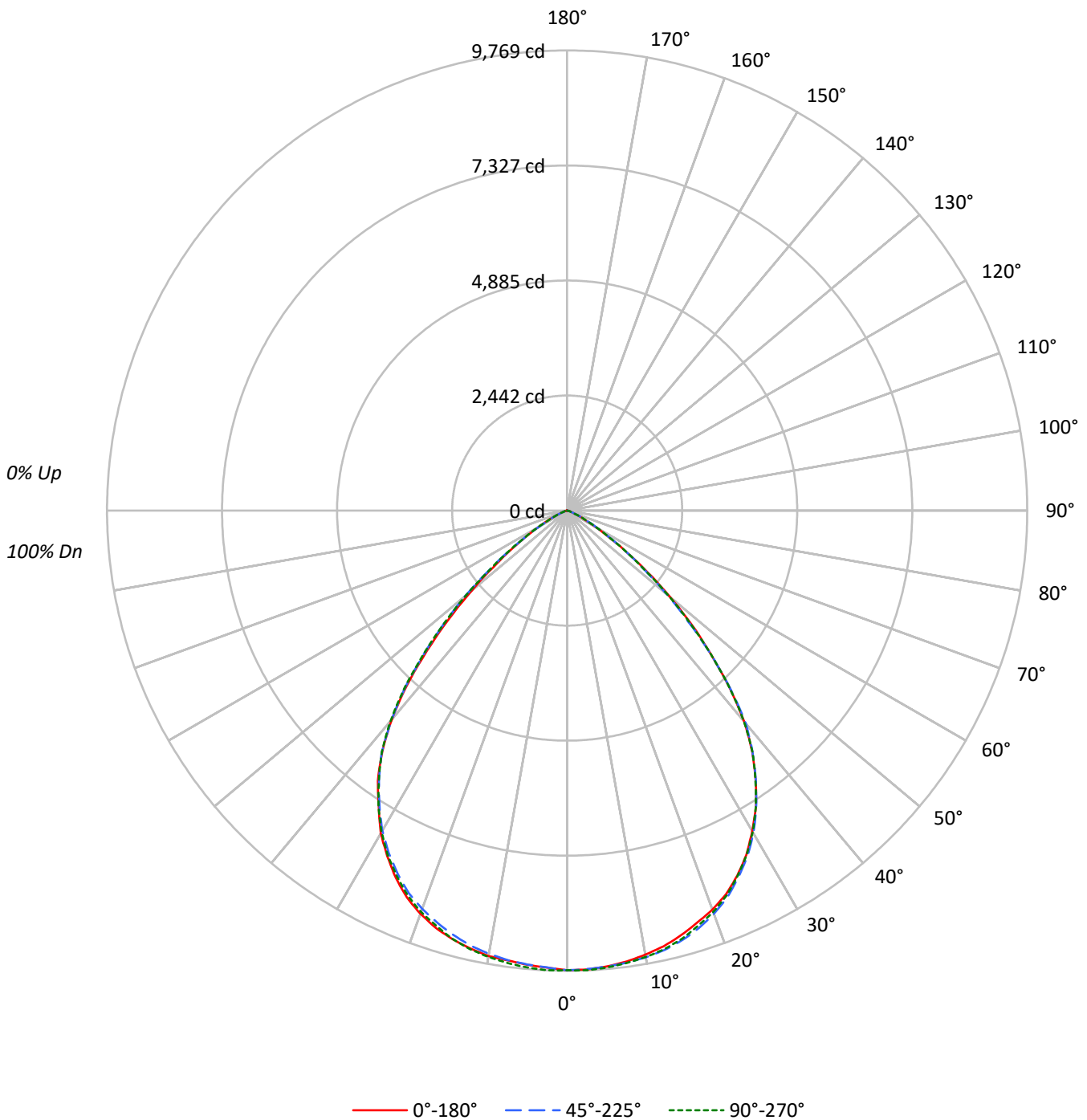
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P247968

CATALOG NUMBER: LD8B175D010 ER8B175935 8LBS0H

Luminous Intensity Polar Plot





TEST NUMBER: P247968

CATALOG NUMBER: LD8B175D010 ER8B175935 8LBS0H

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	101	103	100	98	99	97	95	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73					73			
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48					48			
8	70	58	51	46	68	58	51	46	56	50	46	55	49	45	54	49	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40					40			
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	300932	300932	300932
5°	300710	301425	299605
10°	299662	301322	300658
15°	298053	300450	300664
20°	295883	297622	298948
25°	290862	291189	292828
30°	279844	280463	281731
35°	262730	262260	263784
40°	235562	234942	233276
45°	188143	188099	183359
50°	135979	134684	126926
55°	83336	82717	78938
60°	42813	44472	43818
65°	20868	21707	22057
70°	8944	9205	8763
75°	6994	6994	6076
80°	3765	3427	3072
85°	3078	2052	4423



TEST NUMBER: P247968

CATALOG NUMBER: LD8B175D010 ER8B175935 8LBS0H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	923.9	5.4
10°-20°	2650.3	15.6
20°-30°	3937.3	23.2
30°-40°	4339.0	25.6
40°-50°	3304.9	19.5
50°-60°	1424.7	8.4
60°-70°	327.3	1.9
70°-80°	54.4	0.3
80°-90°	10.2	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°	7511.5	44.3
0°-40°	11850.6	69.8
0°-60°	16580.1	97.7
0°-90°	16972.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16972.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9759	9759	9759	9759	9759	
5°	9715	9714	9738	9672	9679	923
15°	9336	9440	9411	9328	9418	2634
25°	8549	8597	8558	8508	8606	3923
35°	6979	6983	6967	6961	7007	4333
45°	4314	4306	4313	4290	4205	3328
55°	1550	1549	1539	1548	1468	1445
65°	286	314	298	296	302	320
75°	59	59	59	60	51	54
85°	9	6	6	17	12	9
90°	0	0	0	0	0	



TEST NUMBER: P247968

CATALOG NUMBER: LD8B175D010 ER8B175935 8LBS0H

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	9759.0	9759.0	9759.0	9759.0	9759.0	9759.0	9759.0	9759.0	9759.0
2.5°	9748.4	9749.3	9742.6	9757.0	9768.6	9731.0	9708.9	9759.0	9710.8
5°	9714.7	9721.4	9713.7	9732.0	9737.8	9707.0	9672.3	9726.2	9679.0
7.5°	9656.9	9670.4	9681.9	9703.1	9687.7	9649.2	9626.1	9689.6	9631.9
10°	9570.2	9603.9	9629.0	9660.7	9623.2	9581.8	9553.9	9640.5	9602.0
12.5°	9473.0	9511.5	9553.9	9592.4	9535.6	9474.9	9460.5	9552.9	9518.3
15°	9336.3	9371.9	9440.3	9476.9	9411.4	9342.1	9327.6	9445.1	9418.1
17.5°	9175.5	9238.1	9295.8	9324.7	9241.9	9182.2	9174.5	9295.8	9285.3
20°	9016.6	9050.3	9110.0	9148.5	9069.6	8998.3	8995.5	9120.6	9110.0
22.5°	8815.4	8845.3	8884.7	8920.4	8846.2	8786.5	8790.4	8893.4	8891.5
25°	8548.7	8568.9	8596.9	8636.3	8558.3	8516.0	8508.3	8618.0	8606.5
27.5°	8237.7	8251.2	8283.0	8316.7	8249.3	8211.7	8198.3	8308.0	8269.5
30°	7859.3	7890.2	7912.3	7926.7	7876.7	7853.6	7843.9	7930.6	7912.3
32.5°	7457.9	7468.4	7469.4	7505.0	7452.1	7419.3	7419.3	7488.7	7447.3
35°	6979.3	6977.4	6983.2	7021.7	6966.8	6978.4	6961.1	7015.9	7007.3
37.5°	6454.6	6463.3	6465.2	6496.0	6465.2	6472.9	6466.2	6474.8	6446.9
40°	5851.9	5889.5	5902.0	5896.2	5836.5	5816.3	5799.0	5830.7	5795.1
42.5°	5103.8	5121.1	5123.1	5126.9	5110.5	5107.7	5086.5	5100.0	5044.1
45°	4314.3	4322.0	4305.6	4302.8	4313.3	4329.7	4290.2	4259.4	4204.6
47.5°	3593.2	3566.2	3492.1	3519.0	3530.6	3572.0	3529.6	3446.8	3401.6
50°	2834.5	2806.6	2749.8	2762.3	2807.5	2870.1	2821.0	2706.4	2645.8
52.5°	2165.3	2133.6	2070.0	2081.6	2095.1	2142.2	2116.2	2038.3	1979.5
55°	1550.1	1528.0	1549.1	1531.8	1538.6	1583.8	1548.2	1483.7	1468.3
57.5°	1047.5	1060.0	1077.4	1080.3	1066.8	1053.3	1048.5	1023.5	1036.9
60°	694.2	703.8	732.7	741.4	721.1	692.3	698.0	698.0	710.5
62.5°	448.7	457.3	491.0	496.8	467.9	460.2	460.2	457.3	480.4
65°	286.0	303.3	313.9	298.5	297.5	286.9	295.6	295.6	302.3
67.5°	171.4	156.0	166.6	173.3	166.6	157.9	156.0	156.9	166.6
70°	99.2	95.3	102.1	98.2	102.1	88.6	99.2	94.4	97.2
72.5°	63.5	62.6	62.6	66.4	62.6	60.7	64.5	55.8	61.6
75°	58.7	58.7	58.7	51.0	58.7	56.8	59.7	45.3	51.0
77.5°	23.1	27.0	32.7	31.8	31.8	29.8	27.0	23.1	35.6
80°	21.2	19.3	26.0	30.8	19.3	23.1	26.0	16.4	17.3
82.5°	10.6	9.6	12.5	12.5	12.5	6.7	17.3	10.6	8.7
85°	8.7	3.9	5.8	5.8	5.8	7.7	17.3	4.8	12.5
87.5°	1.9	2.9	4.8	4.8	5.8	9.6	17.3	3.9	14.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)