

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: P247950

Luminaire Tested: **LD8B175D010 ER8B175830 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247950
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 ER8B175830 8LBS0H
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19139.0 lumens
Efficiency: N/A
Efficacy: 108.0 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

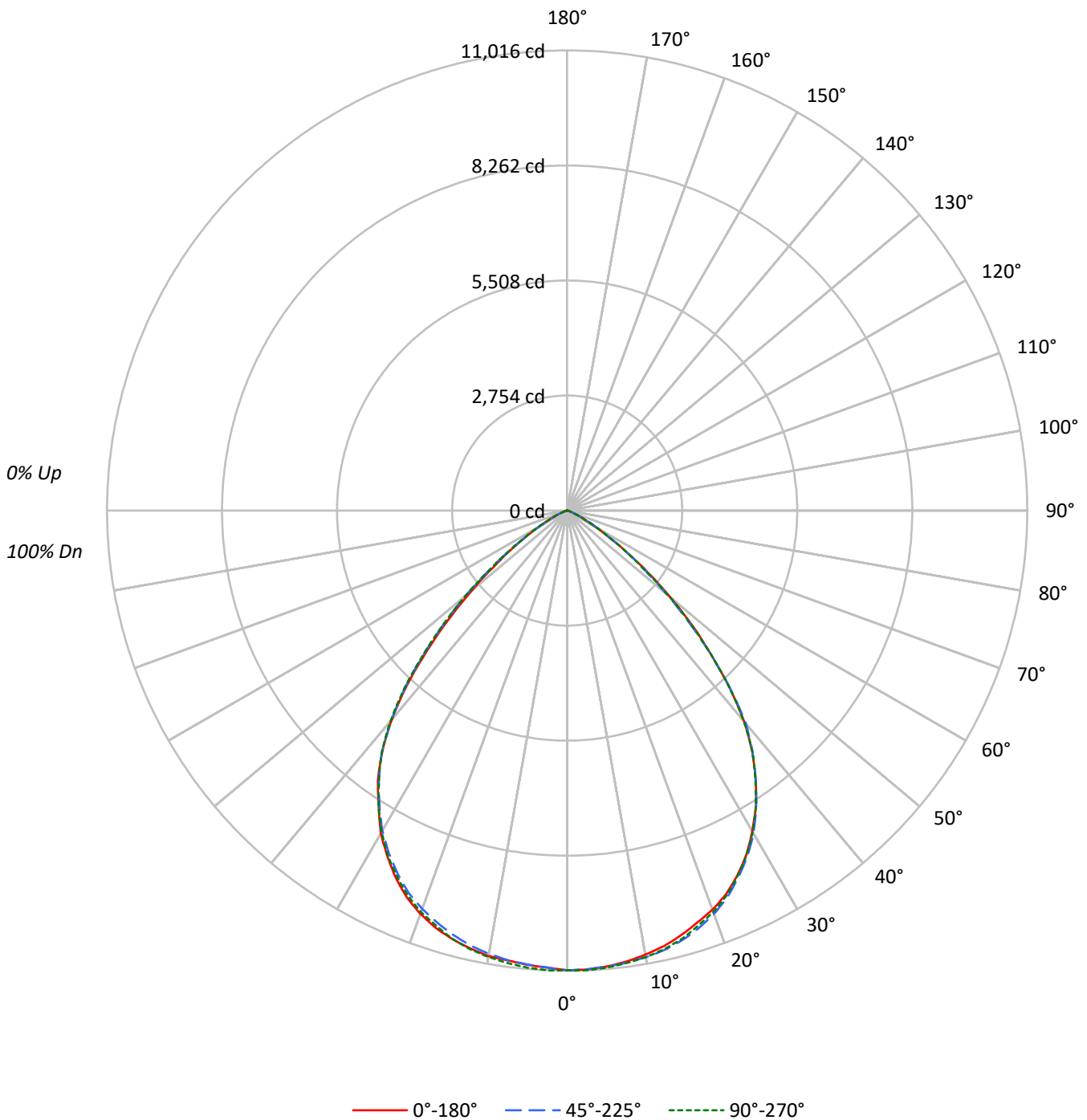
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	339354	339354	339354
5°	339102	339910	337861
10°	337926	339795	339046
15°	336107	338810	339053
20°	333663	335622	337118
25°	327999	328370	330218
30°	315575	316273	317704
35°	296279	295748	297464
40°	265640	264939	263060
45°	212167	212119	206768
50°	153340	151882	143132
55°	93975	93276	89013
60°	48277	50152	49418
65°	23531	24480	24874
70°	10080	10377	9890
75°	7887	7887	6851
80°	4244	3853	3463
85°	3467	2300	4989



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1041.9	5.4
10°-20°	2988.7	15.6
20°-30°	4440.0	23.2
30°-40°	4893.1	25.6
40°-50°	3726.9	19.5
50°-60°	1606.6	8.4
60°-70°	369.1	1.9
70°-80°	61.3	0.3
80°-90°	11.5	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°	8470.6	44.3
0°-40°	13363.7	69.8
0°-60°	18697.1	97.7
0°-90°	19139.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19139.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11005	11005	11005	11005	11005	
5°	10955	10954	10981	10907	10915	###
15°	10528	10646	10613	10519	10621	2970
25°	9640	9694	9651	9595	9705	4424
35°	7870	7875	7856	7850	7902	4886
45°	4865	4855	4864	4838	4741	3753
55°	1748	1747	1735	1746	1656	1630
65°	322	354	336	333	341	360
75°	66	66	66	67	58	61
85°	10	6	6	20	14	10
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°	11005.0	11005.0	11005.0	11005.0	11005.0	11005.0	11005.0	11005.0	11005.0
2.5°	10993.0	10994.1	10986.5	11002.8	11015.8	10973.5	10948.5	11005.0	10950.7
5°	10955.0	10962.6	10954.0	10974.6	10981.1	10946.4	10907.3	10968.1	10914.9
7.5°	10889.9	10905.1	10918.1	10942.0	10924.6	10881.2	10855.2	10926.8	10861.7
10°	10792.2	10830.2	10858.4	10894.2	10851.9	10805.2	10773.7	10871.4	10828.0
12.5°	10682.5	10726.0	10773.7	10817.2	10753.1	10684.7	10668.4	10772.6	10733.6
15°	10528.3	10568.5	10645.6	10686.9	10613.0	10534.9	10518.6	10651.0	10620.6
17.5°	10347.0	10417.6	10482.7	10515.3	10421.9	10354.6	10345.9	10482.7	10470.8
20°	10167.9	10205.9	10273.2	10316.6	10227.6	10147.3	10144.0	10285.1	10273.2
22.5°	9941.0	9974.6	10019.1	10059.3	9975.7	9908.4	9912.7	10028.9	10026.7
25°	9640.2	9663.0	9694.5	9739.0	9651.1	9603.3	9594.6	9718.4	9705.4
27.5°	9289.5	9304.7	9340.6	9378.6	9302.6	9260.2	9245.0	9368.8	9325.4
30°	8862.8	8897.6	8922.6	8938.8	8882.4	8856.3	8845.5	8943.2	8922.6
32.5°	8410.1	8422.0	8423.1	8463.3	8403.6	8366.7	8366.7	8444.8	8398.1
35°	7870.5	7868.3	7874.8	7918.2	7856.4	7869.4	7849.8	7911.7	7902.0
37.5°	7278.8	7288.5	7290.7	7325.4	7290.7	7299.4	7291.8	7301.6	7270.1
40°	6599.1	6641.4	6655.5	6649.0	6581.7	6558.9	6539.4	6575.2	6535.0
42.5°	5755.5	5775.0	5777.2	5781.5	5763.1	5759.8	5735.9	5751.1	5688.2
45°	4865.2	4873.9	4855.4	4852.1	4864.1	4882.5	4838.0	4803.3	4741.4
47.5°	4052.0	4021.6	3938.0	3968.4	3981.4	4028.1	3980.3	3886.9	3835.9
50°	3196.4	3164.9	3100.9	3115.0	3166.0	3236.6	3181.2	3052.0	2983.6
52.5°	2441.8	2406.0	2334.3	2347.4	2362.6	2415.8	2386.4	2298.5	2232.3
55°	1748.0	1723.1	1746.9	1727.4	1735.0	1786.0	1745.9	1673.1	1655.7
57.5°	1181.3	1195.4	1214.9	1218.2	1203.0	1187.8	1182.4	1154.1	1169.3
60°	782.8	793.7	826.2	836.0	813.2	780.6	787.2	787.2	801.3
62.5°	506.0	515.7	553.7	560.2	527.7	519.0	519.0	515.7	541.8
65°	322.5	342.0	353.9	336.6	335.5	323.5	333.3	333.3	340.9
67.5°	193.3	175.9	187.8	195.4	187.8	178.1	175.9	177.0	187.8
70°	111.8	107.5	115.1	110.7	115.1	99.9	111.8	106.4	109.7
72.5°	71.7	70.6	70.6	74.9	70.6	68.4	72.7	63.0	69.5
75°	66.2	66.2	66.2	57.5	66.2	64.1	67.3	51.0	57.5
77.5°	26.1	30.4	36.9	35.8	35.8	33.7	30.4	26.1	40.2
80°	23.9	21.7	29.3	34.7	21.7	26.1	29.3	18.5	19.5
82.5°	11.9	10.9	14.1	14.1	14.1	7.6	19.5	11.9	9.8
85°	9.8	4.3	6.5	6.5	6.5	8.7	19.5	5.4	14.1
87.5°	2.2	3.3	5.4	5.4	6.5	10.9	19.5	4.3	16.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)