

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: P248158

Luminaire Tested: **LD8B200D010 ER8B200927 8LBS0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248158
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-94)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B200927 8LBS0WH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18837.0 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.23
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

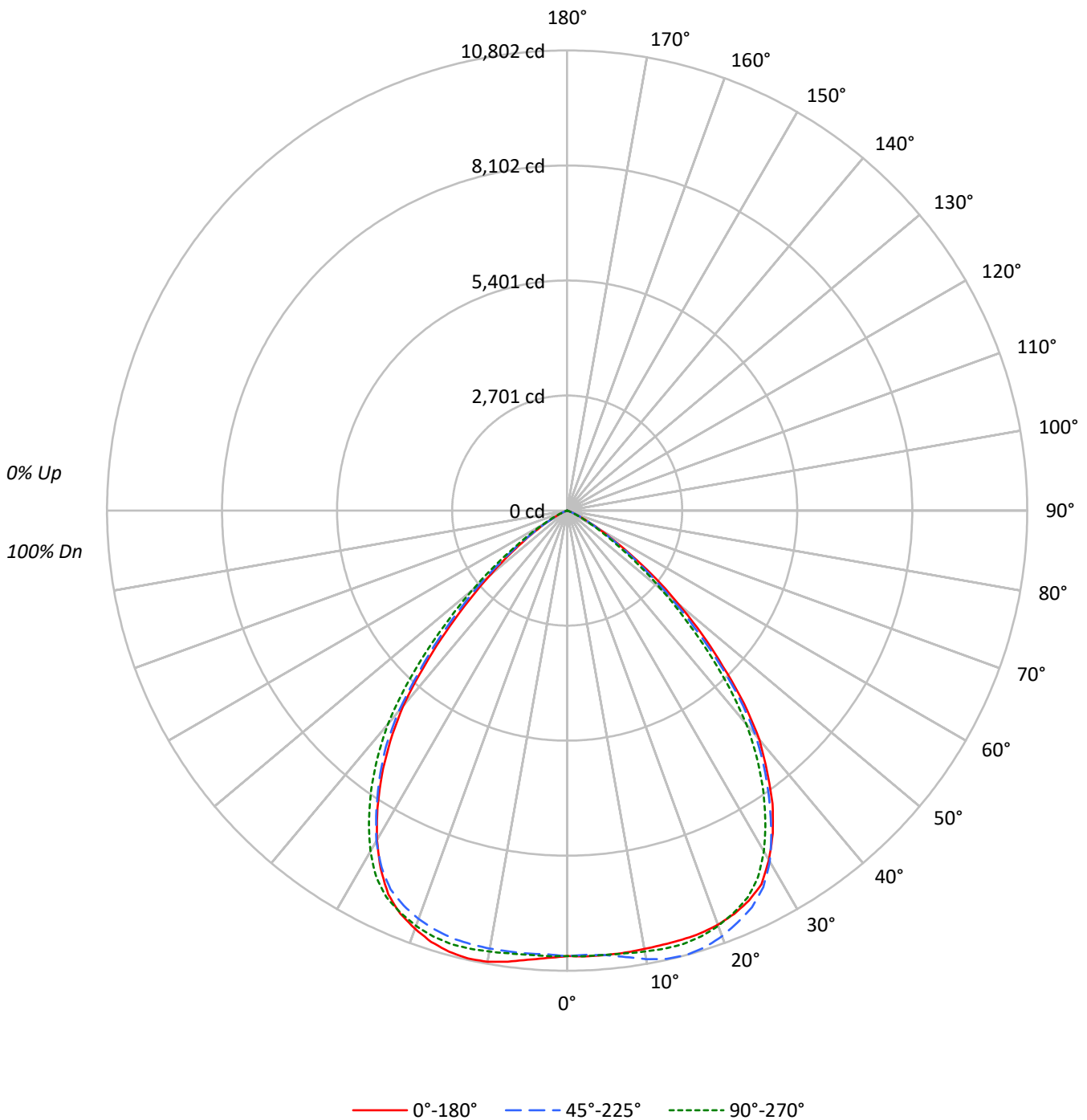
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P248158

CATALOG NUMBER: LD8B200D010 ER8B200927 8LBS0WH

Luminous Intensity Polar Plot





TEST NUMBER: P248158

CATALOG NUMBER: LD8B200D010 ER8B200927 8LBS0WH

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82
3	98	90	84	79	96	89	83	79	86	81	78	84	80	76	81	78	75	73
4	92	82	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66
5	86	75	68	63	84	74	68	63	72	67	62	71	66	62	69	65	61	59
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53
7	75	64	56	51	73	63	56	51	62	55	51	60	55	50	59	54	50	48
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



TEST NUMBER: P248158

CATALOG NUMBER: LD8B200D010 ER8B200927 8LBS0WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1002.7	5.3
10°-20°	2984.4	15.8
20°-30°	4587.3	24.4
30°-40°	4958.8	26.3
40°-50°	3568.3	18.9
50°-60°	1439.9	7.6
60°-70°	276.9	1.5
70°-80°	16.4	0.1
80°-90°	2.3	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°	8574.4	45.5
0°-40°	13533.2	71.8
0°-60°	18541.4	98.4
0°-90°	18837.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18837.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10458	10458	10458	10458	10458	
5°	10473	10476	10466	10436	10582	999
15°	10428	10802	10533	10394	10718	2952
25°	10101	10274	10025	9809	9938	4634
35°	8404	8271	8030	7683	7591	5204
45°	5168	5015	4652	4271	4032	3992
55°	1884	1742	1532	1324	1211	1756
65°	304	311	228	178	175	356
75°	16	12	9	9	9	26
85°	3	2	1	1	1	4
90°	0	0	0	0	0	



TEST NUMBER: P248158

CATALOG NUMBER: LD8B200D010 ER8B200927 8LBS0WH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	10457.6	10457.6	10457.6	10457.6	10457.6	10457.6	10457.6	10457.6	10457.6
2.5°	10473.2	10458.7	10437.8	10436.7	10470.2	10451.4	10428.4	10452.4	10511.8
5°	10473.2	10475.3	10476.3	10467.0	10465.9	10434.7	10435.7	10500.3	10581.6
7.5°	10465.9	10506.6	10570.2	10555.5	10482.6	10413.8	10441.9	10572.3	10680.6
10°	10449.2	10544.1	10690.1	10668.2	10511.8	10395.0	10439.9	10621.2	10752.6
12.5°	10434.7	10565.0	10780.8	10754.7	10535.7	10382.5	10427.4	10627.5	10769.3
15°	10428.4	10569.2	10801.6	10769.3	10532.7	10357.5	10394.0	10581.6	10718.2
17.5°	10405.5	10536.9	10749.5	10709.9	10478.5	10299.2	10314.8	10485.8	10615.1
20°	10347.1	10459.7	10633.7	10579.5	10374.2	10193.8	10199.0	10328.3	10445.1
22.5°	10248.1	10336.6	10462.8	10410.6	10218.8	10055.2	10033.3	10141.8	10239.8
25°	10101.0	10173.0	10274.2	10217.8	10025.0	9858.2	9809.2	9877.9	9937.5
27.5°	9885.3	9910.4	9967.6	9881.1	9702.9	9539.2	9437.1	9447.5	9478.8
30°	9470.4	9511.1	9516.3	9417.3	9238.9	9049.3	8955.4	8903.4	8928.3
32.5°	8982.6	8971.1	8919.0	8799.1	8659.5	8508.3	8331.1	8271.7	8285.2
35°	8404.0	8376.9	8270.6	8155.9	8029.8	7844.3	7682.6	7595.1	7590.9
37.5°	7699.4	7662.8	7593.0	7434.6	7318.8	7162.5	6986.4	6889.4	6816.4
40°	7020.7	6963.4	6881.1	6691.3	6545.4	6327.6	6147.2	6012.7	5992.9
42.5°	6145.1	6117.0	5999.2	5808.4	5626.0	5368.5	5158.9	5046.4	4988.0
45°	5168.4	5168.4	5015.1	4847.3	4652.3	4460.5	4270.8	4103.0	4032.1
47.5°	4293.8	4185.3	4040.4	3861.1	3718.4	3582.8	3381.6	3175.2	3127.3
50°	3403.5	3334.7	3163.7	2992.8	2905.2	2775.9	2617.5	2417.4	2366.3
52.5°	2630.0	2521.6	2373.6	2246.4	2164.0	2062.9	1890.9	1754.4	1728.3
55°	1883.7	1828.5	1741.8	1637.7	1532.4	1426.0	1323.9	1245.7	1211.3
57.5°	1290.5	1271.8	1199.8	1138.3	1036.1	942.3	848.6	823.5	825.6
60°	844.3	843.3	807.9	752.6	664.0	578.6	534.7	522.2	530.6
62.5°	510.8	520.2	510.8	478.5	410.7	345.0	313.8	320.1	314.8
65°	304.4	313.8	310.6	269.0	228.3	200.1	178.2	169.9	175.2
67.5°	177.2	172.0	158.4	138.6	113.6	93.8	79.2	71.9	73.0
70°	78.2	74.0	66.7	51.1	38.6	31.3	26.1	24.0	25.0
72.5°	29.1	28.1	24.0	19.8	16.7	13.5	12.5	12.5	12.5
75°	15.6	14.6	12.5	10.5	9.3	9.3	9.3	9.3	9.3
77.5°	11.5	10.5	9.3	8.3	7.3	6.3	6.3	6.3	6.3
80°	8.3	7.3	6.3	5.2	5.2	4.2	4.2	4.2	4.2
82.5°	5.2	5.2	4.2	3.2	3.2	2.1	2.1	2.1	2.1
85°	3.2	3.2	2.1	2.1	1.0	1.0	1.0	1.0	1.0
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)