

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: P248160

Luminaire Tested: **LD8B175D010 ER8B175930 8LBS0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248160
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: LD8B175D010 ER8B175930 8LBS0WH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16847.5 lumens
Efficiency: N/A
Efficacy: 95.1 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

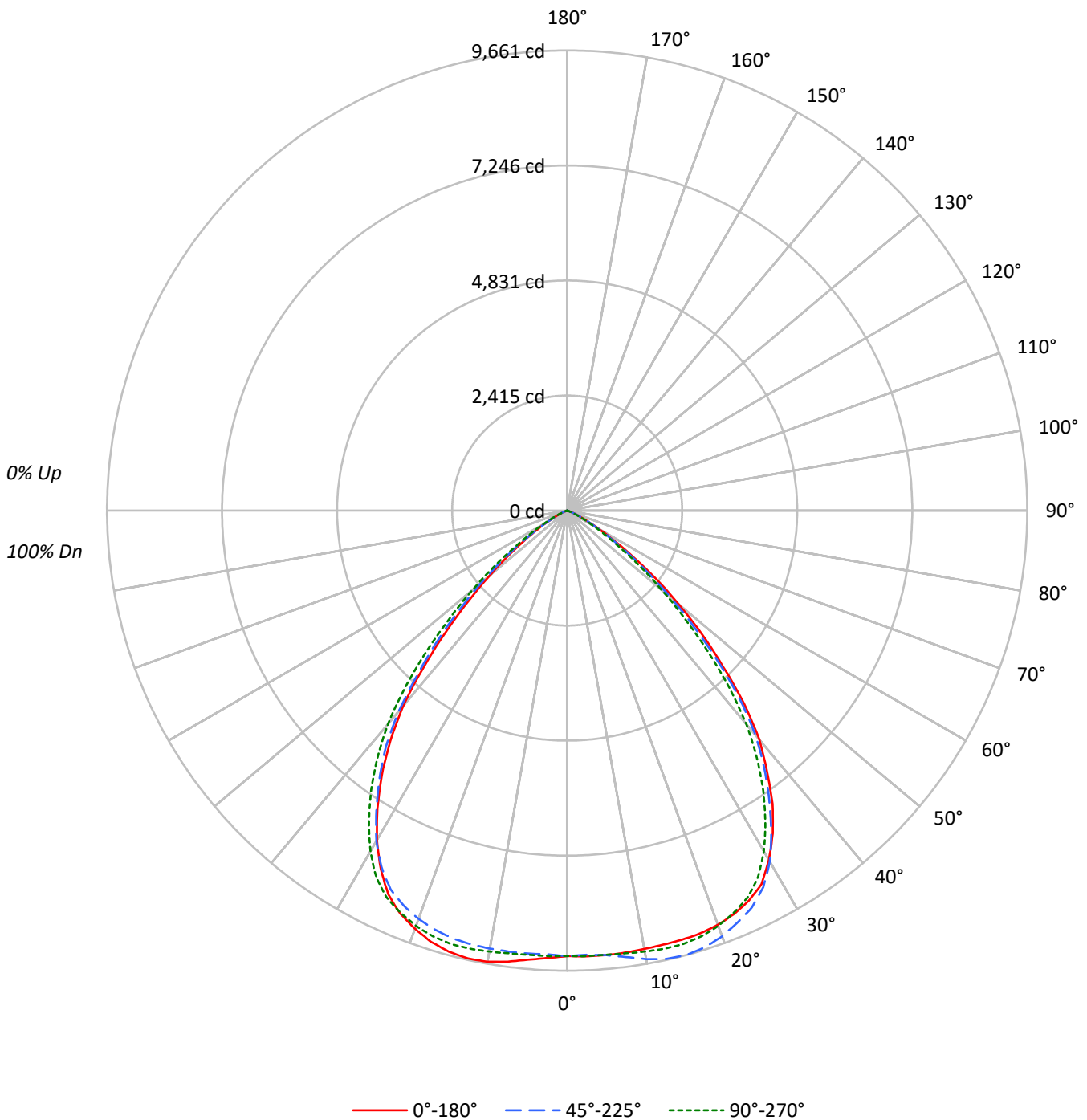
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	896.8	5.3
10°-20°	2669.2	15.8
20°-30°	4102.8	24.4
30°-40°	4435.1	26.3
40°-50°	3191.4	18.9
50°-60°	1287.8	7.6
60°-70°	247.6	1.5
70°-80°	14.7	0.1
80°-90°	2.1	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°	7668.8	45.5
0°-40°	12103.9	71.8
0°-60°	16583.1	98.4
0°-90°	16847.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16847.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9353	9353	9353	9353	9353	
5°	9367	9370	9361	9334	9464	893
15°	9327	9661	9420	9296	9586	2640
25°	9034	9189	8966	8773	8888	4145
35°	7516	7397	7182	6871	6789	4655
45°	4622	4486	4161	3820	3606	3571
55°	1685	1558	1370	1184	1083	1570
65°	272	278	204	159	157	319
75°	14	11	8	8	8	23
85°	3	2	1	1	1	3
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°	9353.1	9353.1	9353.1	9353.1	9353.1	9353.1	9353.1	9353.1	9353.1
2.5°	9367.1	9354.1	9335.4	9334.5	9364.3	9347.5	9326.9	9348.5	9401.6
5°	9367.1	9369.0	9369.9	9361.5	9360.6	9332.5	9333.6	9391.3	9464.0
7.5°	9360.6	9396.9	9453.8	9440.7	9375.5	9313.9	9339.2	9455.6	9552.6
10°	9345.7	9430.5	9561.0	9541.4	9401.6	9297.1	9337.3	9499.5	9616.9
12.5°	9332.5	9449.1	9642.2	9618.9	9423.0	9286.0	9326.0	9505.1	9631.9
15°	9326.9	9452.8	9660.8	9631.9	9420.2	9263.6	9296.2	9464.0	9586.2
17.5°	9306.4	9423.9	9614.1	9578.7	9371.8	9211.4	9225.4	9378.3	9493.9
20°	9254.3	9355.0	9510.7	9462.1	9278.5	9117.2	9121.9	9237.5	9342.0
22.5°	9165.7	9245.0	9357.8	9311.1	9139.6	8993.2	8973.6	9070.6	9158.2
25°	9034.3	9098.6	9189.1	9138.6	8966.2	8817.0	8773.2	8834.7	8887.8
27.5°	8841.2	8863.6	8914.9	8837.5	8678.1	8531.7	8440.3	8449.6	8477.7
30°	8470.2	8506.6	8511.2	8422.6	8263.2	8093.5	8009.7	7963.0	7985.3
32.5°	8033.9	8023.6	7977.0	7869.8	7744.9	7609.7	7451.2	7398.0	7410.1
35°	7516.4	7492.2	7397.0	7294.6	7181.7	7015.8	6871.3	6792.9	6789.2
37.5°	6886.2	6853.6	6791.0	6649.3	6545.9	6406.1	6248.5	6161.8	6096.4
40°	6279.2	6227.9	6154.3	5984.6	5854.1	5659.3	5497.9	5377.7	5359.9
42.5°	5496.0	5470.9	5365.6	5194.9	5031.7	4801.5	4614.0	4513.4	4461.1
45°	4622.4	4622.4	4485.5	4335.4	4160.9	3989.4	3819.7	3669.6	3606.3
47.5°	3840.2	3743.2	3613.7	3453.4	3325.6	3204.4	3024.5	2839.8	2797.0
50°	3044.1	2982.5	2829.6	2676.7	2598.4	2482.8	2341.1	2162.1	2116.3
52.5°	2352.3	2255.3	2122.9	2009.2	1935.5	1845.1	1691.3	1569.1	1545.7
55°	1684.8	1635.3	1558.0	1464.7	1370.5	1275.5	1184.0	1114.2	1083.3
57.5°	1154.2	1137.5	1073.1	1018.1	926.7	842.8	758.9	736.5	738.4
60°	755.2	754.2	722.6	673.2	593.9	517.5	478.3	467.1	474.5
62.5°	456.8	465.2	456.8	427.9	367.4	308.6	280.6	286.2	281.6
65°	272.3	280.6	277.8	240.6	204.1	179.0	159.4	152.0	156.6
67.5°	158.5	153.8	141.7	124.0	101.7	84.0	70.8	64.3	65.2
70°	70.0	66.3	59.6	45.7	34.5	28.0	23.3	21.4	22.4
72.5°	26.1	25.2	21.4	17.7	14.9	12.1	11.2	11.2	11.2
75°	14.0	13.0	11.2	9.3	8.4	8.4	8.4	8.4	8.4
77.5°	10.2	9.3	8.4	7.5	6.5	5.6	5.6	5.6	5.6
80°	7.5	6.5	5.6	4.7	4.7	3.7	3.7	3.7	3.7
82.5°	4.7	4.7	3.7	2.8	2.8	1.9	1.9	1.9	1.9
85°	2.8	2.8	1.9	1.9	0.9	0.9	0.9	0.9	0.9
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)