

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: P248088

Luminaire Tested: **LD8B175D010 ER8B175930 8LBS0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248088
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-93)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175930 8LBS0WMH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16143.5 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.22
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

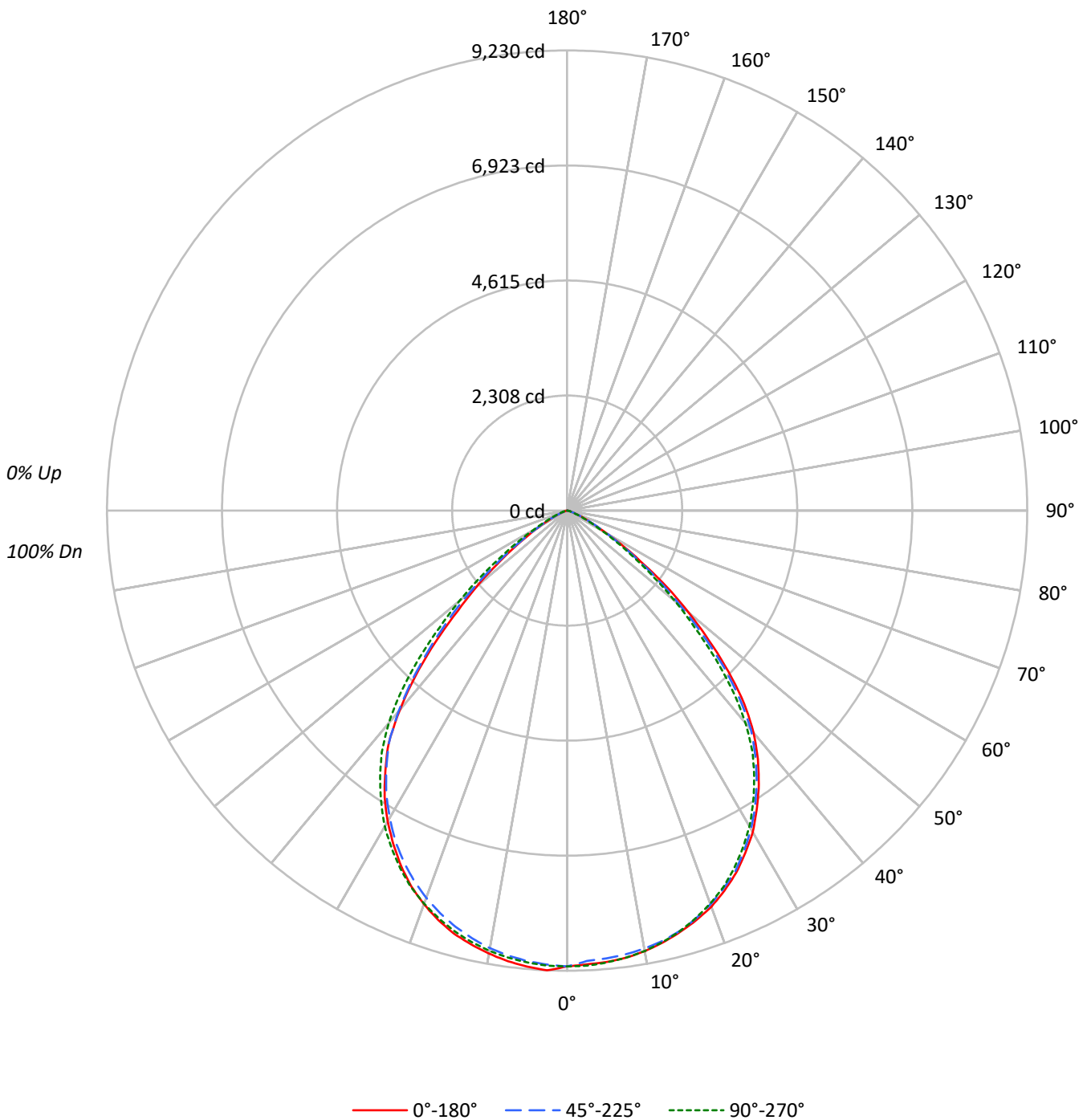
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	106	104	101	102	100	98	99	97	95	95	94	92	90
2	105	99	93	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81
3	97	89	83	78	95	88	82	77	85	80	76	83	78	75	80	77	74	72
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64
5	85	74	67	61	83	73	66	61	71	65	61	69	64	60	68	63	59	58
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47
8	69	57	50	45	68	57	50	45	56	49	45	54	49	45	53	48	44	43
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39
10	61	49	42	38	60	49	42	38	48	42	38	47	41	37	46	41	37	36

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°	863.5	5.3
10°-20°	2459.4	15.2
20°-30°	3633.4	22.5
30°-40°	4049.0	25.1
40°-50°	3197.6	19.8
50°-60°	1476.7	9.1
60°-70°	379.4	2.3
70°-80°	73.0	0.5
80°-90°	11.4	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°	6956.3	43.1
0°-40°	11005.3	68.2
0°-60°	15679.6	97.1
0°-90°	16143.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16143.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9143	9143	9143	9143	9143	
5°	9090	9018	9100	9072	9181	864
15°	8751	8730	8735	8644	8783	2470
25°	8018	7981	7922	7764	7875	3685
35°	6703	6628	6541	6323	6360	4174
45°	4580	4446	4215	3878	3742	3495
55°	1865	1758	1625	1391	1309	1728
65°	405	410	362	277	257	444
75°	67	71	73	55	46	81
85°	10	10	8	5	4	14
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°	9143.4	9143.4	9143.4	9143.4	9143.4	9143.4	9143.4	9143.4	9143.4
2.5°	9109.0	9151.8	9042.8	9131.3	9135.1	9072.6	9115.5	9166.8	9230.2
5°	9090.3	9134.1	9017.7	9099.7	9099.7	9031.6	9071.7	9116.4	9180.8
7.5°	9046.6	9094.1	8979.4	9055.9	9043.8	8969.1	9004.5	9048.4	9117.4
10°	8973.8	9032.6	8920.7	8993.3	8968.2	8882.5	8913.2	8958.9	9023.3
12.5°	8874.1	8944.0	8839.5	8903.0	8862.9	8765.0	8790.1	8848.8	8912.3
15°	8751.0	8822.7	8730.5	8785.5	8735.2	8626.1	8643.8	8703.4	8782.7
17.5°	8613.9	8683.8	8580.4	8640.0	8572.8	8460.1	8466.6	8535.6	8607.4
20°	8456.4	8514.1	8407.8	8464.8	8389.2	8265.2	8266.1	8327.7	8402.2
22.5°	8249.3	8310.0	8200.0	8247.5	8178.5	8046.1	8030.3	8089.9	8161.8
25°	8018.2	8081.5	7980.8	7997.7	7922.1	7785.1	7763.6	7807.4	7874.6
27.5°	7741.3	7803.7	7689.9	7711.4	7628.4	7497.0	7468.1	7491.4	7544.6
30°	7446.6	7485.8	7377.6	7395.3	7315.2	7159.5	7115.7	7147.4	7199.5
32.5°	7083.9	7112.0	7019.6	7028.9	6942.2	6807.9	6750.2	6759.5	6812.7
35°	6702.6	6717.5	6628.0	6629.9	6541.4	6405.2	6323.1	6318.5	6359.5
37.5°	6282.1	6292.4	6201.9	6197.3	6105.9	5958.6	5872.8	5857.9	5883.1
40°	5820.6	5834.6	5740.4	5710.6	5570.7	5402.9	5263.1	5237.0	5226.7
42.5°	5261.2	5223.0	5124.2	5073.8	4933.1	4717.6	4588.0	4548.9	4515.4
45°	4579.6	4548.9	4446.3	4332.6	4215.1	4052.9	3878.5	3771.4	3742.5
47.5°	3864.5	3828.2	3680.9	3581.1	3465.6	3390.9	3203.5	3038.5	2966.7
50°	3170.0	3129.8	2965.8	2892.2	2824.0	2713.2	2531.3	2383.0	2356.0
52.5°	2527.6	2467.0	2326.2	2249.7	2189.1	2066.1	1902.0	1816.2	1770.5
55°	1864.7	1855.4	1757.5	1702.5	1625.1	1527.1	1391.0	1326.7	1309.0
57.5°	1358.4	1323.9	1286.7	1240.1	1172.9	1049.8	965.9	917.4	913.7
60°	912.7	923.9	923.9	872.7	802.7	722.6	655.4	629.3	630.2
62.5°	612.5	620.0	618.1	595.8	541.7	476.4	432.6	414.0	414.9
65°	404.7	402.8	410.3	394.4	361.7	316.0	276.9	266.7	257.4
67.5°	257.4	260.1	257.4	249.0	229.4	196.7	170.6	154.8	150.1
70°	156.6	152.9	153.8	152.0	138.0	122.2	103.5	90.5	86.7
72.5°	94.2	97.0	97.9	100.7	98.9	87.7	74.5	65.2	63.4
75°	67.1	68.0	70.8	73.6	72.8	65.2	55.0	48.4	45.7
77.5°	50.3	50.3	52.2	55.9	53.1	46.6	39.1	33.5	31.7
80°	34.5	35.4	36.3	36.3	33.5	29.8	23.3	19.6	17.7
82.5°	20.5	21.4	20.5	20.5	18.6	14.9	11.2	10.2	9.3
85°	10.2	10.2	10.2	10.2	8.4	6.5	4.7	3.7	3.7
87.5°	4.7	4.7	4.7	3.7	2.8	1.9	1.9	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)