

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: P247944

Luminaire Tested: **LD8B175D010 ER8B175930 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247944
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-70)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175930 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15167.1 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

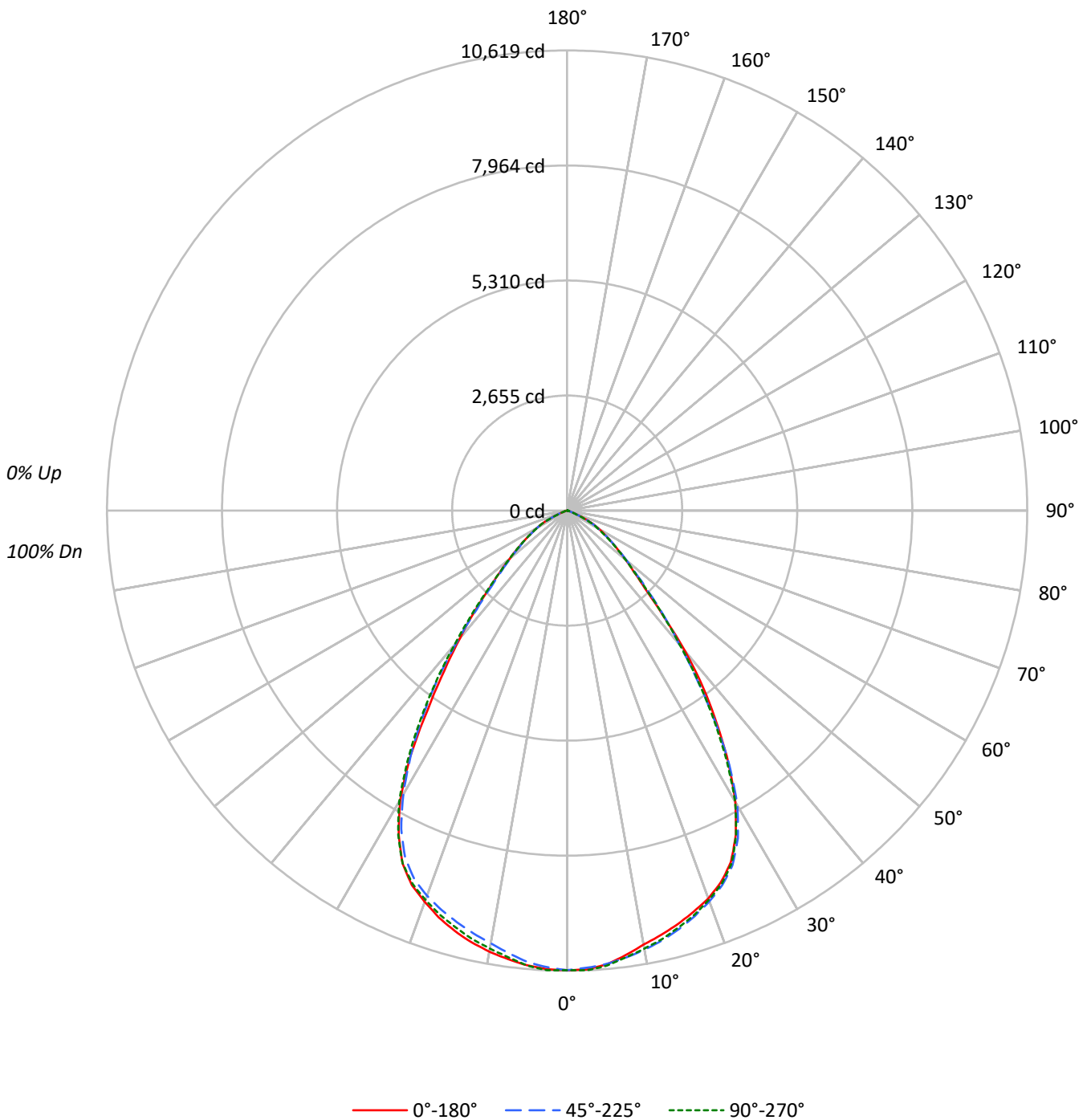
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55
7	76	65	58	53	75	65	58	53	63	57	53	62	57	53	61	56	52	51
8	72	61	54	49	71	60	54	49	59	53	49	58	52	48	57	52	48	47
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43
10	64	53	46	42	63	52	46	42	52	46	42	51	45	41	50	45	41	40

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°	993.4	6.5
10°-20°	2800.7	18.5
20°-30°	4060.5	26.8
30°-40°	3649.9	24.1
40°-50°	2056.7	13.6
50°-60°	1095.9	7.2
60°-70°	438.0	2.9
70°-80°	58.3	0.4
80°-90°	13.7	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°	7854.6	51.8
0°-40°	11504.5	75.9
0°-60°	14657.1	96.6
0°-90°	15167.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15167.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10606	10606	10606	10606	10606	
5°	10511	10502	10541	10458	10535	992
15°	9876	9991	9955	9832	10038	2787
25°	8946	9030	8980	8841	8988	4061
35°	6042	5956	5907	5825	5612	3749
45°	2526	2663	2592	2470	2533	2075
55°	1229	1232	1206	1178	1196	1120
65°	473	450	418	406	422	468
75°	37	48	46	45	37	55
85°	2	11	6	16	4	5
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°	10606.1	10606.1	10606.1	10606.1	10606.1	10606.1	10606.1	10606.1	10606.1
2.5°	10598.6	10576.3	10559.5	10591.2	10619.1	10542.7	10548.3	10581.9	10593.1
5°	10511.1	10490.5	10501.8	10527.8	10540.9	10444.8	10457.9	10514.8	10535.3
7.5°	10346.9	10362.7	10402.9	10436.4	10397.3	10284.5	10303.1	10401.0	10441.1
10°	10168.8	10206.1	10290.1	10329.2	10263.0	10118.5	10140.0	10271.4	10334.8
12.5°	10027.1	10068.1	10155.8	10185.6	10126.9	9971.2	9993.6	10129.7	10205.2
15°	9876.1	9913.5	9990.8	10015.0	9955.4	9811.8	9832.3	9962.8	10038.3
17.5°	9705.5	9738.1	9807.1	9829.5	9777.2	9625.4	9658.0	9779.2	9845.3
20°	9525.6	9548.9	9597.3	9610.4	9560.0	9445.3	9460.3	9564.7	9607.6
22.5°	9280.3	9310.2	9355.0	9368.9	9322.3	9196.5	9210.5	9312.9	9359.6
25°	8945.7	8989.5	9029.5	9047.3	8980.1	8813.3	8841.2	8928.9	8987.6
27.5°	8426.3	8461.8	8532.6	8534.5	8442.1	8268.8	8292.0	8404.9	8419.8
30°	7758.8	7791.4	7854.0	7839.9	7751.4	7545.3	7563.9	7673.9	7699.1
32.5°	6941.1	6953.2	6970.0	6965.4	6857.3	6760.3	6722.1	6735.1	6744.4
35°	6042.4	6063.8	5955.6	5896.9	5907.2	5915.6	5825.2	5690.9	5611.6
37.5°	5171.6	5069.0	4935.8	4890.0	4974.9	5002.8	4920.9	4720.3	4646.7
40°	4225.3	4133.9	4028.5	4036.9	4035.2	4054.7	3951.2	3877.5	3852.3
42.5°	3251.9	3252.9	3321.9	3274.3	3265.0	3128.9	3088.8	3129.8	3174.6
45°	2525.6	2609.6	2662.7	2648.7	2591.9	2469.7	2469.7	2541.5	2533.1
47.5°	2079.1	2108.9	2149.0	2146.2	2105.2	2015.7	2030.6	2080.0	2105.2
50°	1757.4	1770.5	1789.1	1773.3	1748.1	1692.1	1691.3	1725.8	1740.7
52.5°	1470.3	1477.7	1473.1	1464.7	1450.7	1420.9	1411.6	1440.5	1444.2
55°	1228.8	1242.7	1232.5	1209.2	1206.4	1179.4	1178.5	1201.7	1196.2
57.5°	1023.7	1009.7	995.7	976.2	973.4	965.0	974.3	978.0	972.5
60°	852.2	853.1	826.1	807.3	805.6	793.4	806.4	816.8	816.8
62.5°	686.2	682.5	665.6	637.7	642.3	637.7	643.3	645.1	636.7
65°	472.7	473.6	450.3	416.8	417.7	414.0	405.6	418.6	422.4
67.5°	251.8	249.9	232.2	220.1	215.3	217.2	226.6	229.4	219.0
70°	137.1	132.4	136.1	123.1	125.9	121.2	125.9	133.3	130.5
72.5°	70.0	74.5	67.1	61.5	68.9	68.0	79.3	72.8	65.2
75°	37.3	40.1	47.5	43.8	45.7	43.8	44.7	41.9	37.3
77.5°	27.0	29.8	34.5	33.5	32.6	30.7	34.5	38.2	30.7
80°	15.8	19.6	21.4	25.2	22.4	25.2	28.9	23.3	18.6
82.5°	10.2	15.8	15.8	16.8	24.2	15.8	26.1	23.3	18.6
85°	1.9	2.8	11.2	6.5	5.6	16.8	15.8	12.1	3.7
87.5°	0.0	6.5	14.9	7.5	12.1	11.2	15.8	16.8	3.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)