

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: P250202

Luminaire Tested: **LD8B175D010 ER8B1759730 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250202
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13942)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B1759730 8LBM0WH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT
97 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13452.0 lumens
Efficiency: N/A
Efficacy: 75.9 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.8 / 0.85
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

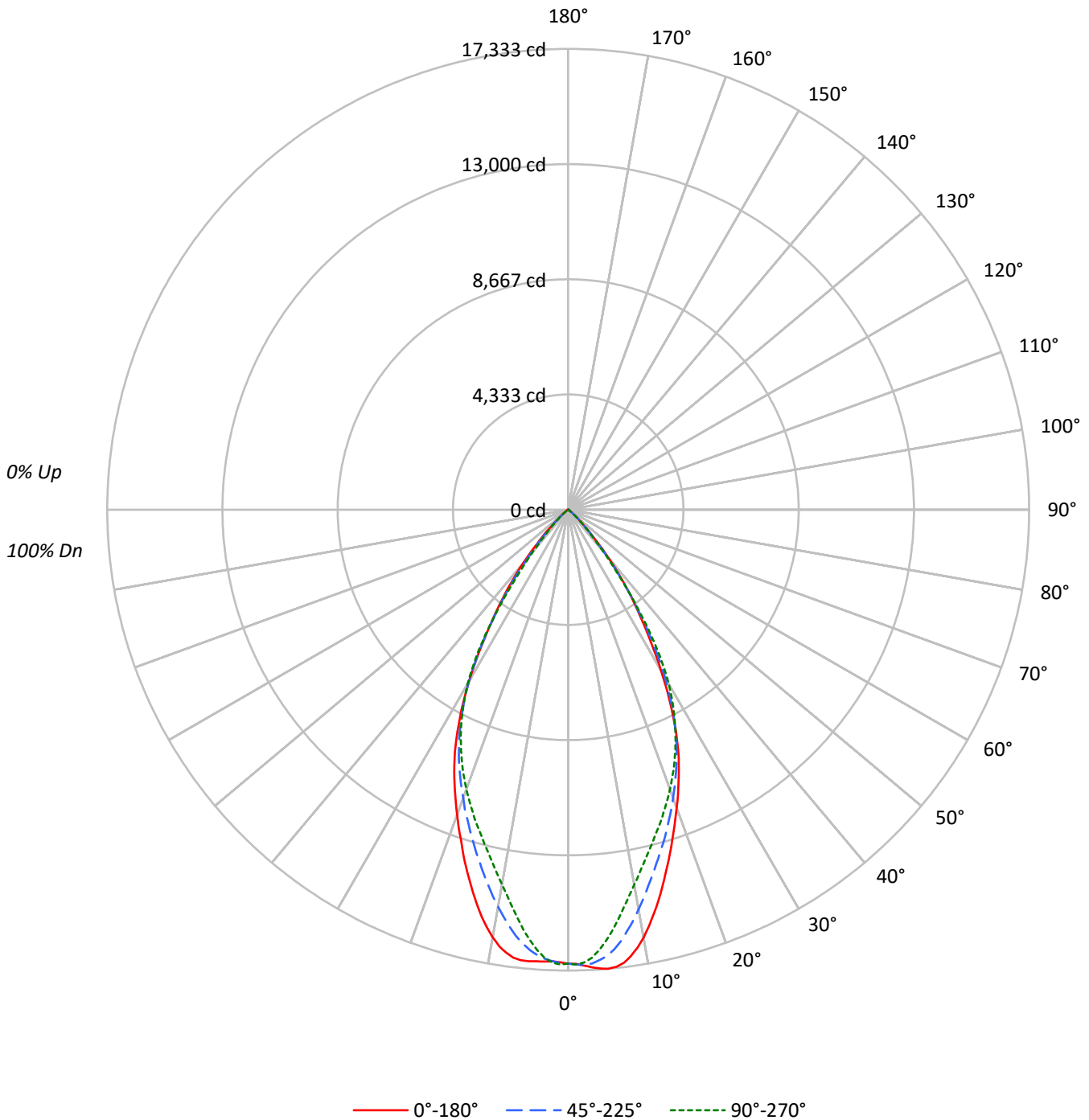
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	100	100			
1	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94	94	94	94			
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87	87	87	87			
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81	81	81	81			
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76	76	76	76			
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71	71	71	71			
6	88	80	74	69	87	79	73	69	77	72	69	76	72	68	75	71	68	66	66	66	66			
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62	62	62	62			
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58	58	58	58			
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	64	59	56	55	55	55	55			
10	73	63	57	54	72	63	57	54	62	57	53	61	56	53	60	56	53	52	52	52	52			

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°	1549.8	11.5
10°-20°	3748.4	27.9
20°-30°	4393.3	32.7
30°-40°	2890.5	21.5
40°-50°	754.3	5.6
50°-60°	92.8	0.7
60°-70°	19.3	0.1
70°-80°	3.6	0.0
80°-90°	0.1	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°	9691.4	72.0
0°-40°	12582.0	93.5
0°-60°	13429.0	99.8
0°-90°	13452.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13452.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	17072	17072	17072	17072	17072	
5°	17333	16839	16283	16619	17051	###
15°	14150	13349	12668	13349	14390	3944
25°	9721	9626	9555	9717	10078	4382
35°	4420	4520	4674	4719	4794	2768
45°	859	809	755	876	1021	770
55°	66	71	79	79	75	88
65°	25	21	21	17	17	17
75°	0	4	0	0	0	2
85°	0	0	0	0	0	0
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°	17071.8	17071.8	17071.8	17071.8	17071.8	17071.8	17071.8	17071.8	17071.8
1°	17084.2	17109.2	17117.4	17142.4	17105.0	17080.1	17046.9	17021.9	17026.1
2°	17158.9	17171.4	17125.7	17109.2	17042.7	17021.9	16997.0	16992.9	16997.0
3°	17237.8	17212.9	17092.5	16980.5	16880.9	16868.4	16914.1	16980.5	17017.8
4°	17300.1	17233.7	16980.5	16772.9	16615.2	16602.8	16785.4	16955.5	17026.1
5°	17333.3	17212.9	16839.3	16490.7	16283.2	16362.0	16619.3	16922.3	17051.0
6°	17287.6	17109.2	16623.5	16158.7	15922.0	16025.8	16403.5	16843.5	17034.4
7°	17171.4	16943.1	16345.4	15797.5	15506.9	15668.8	16150.3	16710.6	16972.2
8°	16955.5	16681.6	15992.6	15378.3	15091.9	15274.5	15839.0	16519.7	16822.8
9°	16673.3	16370.3	15644.0	14996.4	14689.3	14905.1	15515.3	16266.5	16615.2
10°	16337.1	16013.3	15257.9	14598.0	14319.9	14523.2	15166.6	15971.8	16332.9
11°	15942.7	15631.5	14871.9	14224.4	13958.8	14158.0	14818.0	15619.1	16009.2
12°	15515.3	15228.9	14477.6	13863.3	13614.3	13805.2	14444.4	15253.8	15639.8
13°	15087.7	14801.3	14095.8	13514.6	13286.3	13468.9	14079.1	14855.3	15241.3
14°	14627.0	14365.5	13713.9	13182.5	12975.0	13149.3	13705.6	14452.7	14818.0
15°	14149.7	13942.1	13348.6	12862.9	12667.9	12833.9	13348.6	14037.6	14390.4
16°	13701.4	13510.5	12995.8	12547.5	12385.7	12518.4	12987.5	13622.6	13958.8
17°	13244.8	13070.5	12642.9	12236.2	12091.0	12219.6	12618.1	13203.4	13506.3
18°	12788.3	12642.9	12257.0	11908.4	11779.7	11895.9	12252.8	12779.9	13053.9
19°	12364.9	12232.0	11904.2	11609.5	11493.3	11597.0	11933.2	12373.2	12647.1
20°	11929.1	11821.1	11534.7	11294.0	11186.1	11281.5	11543.0	11970.6	12211.3
21°	11509.8	11414.4	11165.3	10961.9	10874.8	10953.7	11194.4	11580.4	11792.1
22°	11074.0	11020.1	10796.0	10625.8	10567.7	10617.4	10837.4	11169.5	11368.8
23°	10646.5	10596.7	10426.5	10285.4	10235.6	10285.4	10480.5	10779.3	10957.9
24°	10214.8	10160.9	10036.4	9945.0	9903.6	9945.0	10111.0	10364.2	10534.4
25°	9720.9	9712.6	9625.5	9575.6	9554.9	9600.5	9716.8	9936.8	10077.8
26°	9247.7	9222.8	9197.9	9189.6	9193.8	9218.6	9314.1	9480.2	9592.3
27°	8666.7	8704.0	8741.3	8791.2	8807.7	8828.5	8874.1	8994.5	9077.6
28°	8110.4	8181.0	8272.3	8371.9	8417.6	8417.6	8421.7	8488.1	8558.7
29°	7558.4	7633.1	7778.4	7927.8	7990.1	7981.7	7948.5	7977.6	8019.1
30°	6981.5	7076.9	7272.0	7467.1	7558.4	7525.2	7463.0	7433.9	7458.8
31°	6417.0	6512.5	6728.3	6939.9	7060.3	7023.0	6915.0	6894.3	6906.7
32°	5877.4	5972.9	6172.0	6396.2	6533.2	6483.4	6371.3	6338.1	6342.2
33°	5354.4	5429.1	5611.7	5819.3	5931.3	5918.8	5827.5	5786.1	5790.2
34°	4860.5	4922.7	5059.6	5217.5	5325.3	5321.2	5254.7	5258.9	5271.4
35°	4420.5	4453.7	4520.0	4607.3	4673.7	4711.0	4719.3	4752.5	4794.1
37.5°	3341.3	3353.7	3274.9	3187.7	3171.1	3279.1	3465.8	3627.7	3690.0
40°	2316.1	2287.0	2187.4	2033.8	1988.1	2108.6	2345.1	2573.4	2656.4
42.5°	1440.3	1427.8	1365.6	1249.4	1207.9	1278.4	1456.9	1631.3	1714.2
45°	859.2	842.5	809.3	763.7	755.4	784.5	875.8	975.4	1021.1
47.5°	493.9	489.8	469.0	452.5	448.3	469.0	510.5	568.6	581.1
50°	269.7	265.7	261.5	261.5	261.5	273.9	294.7	311.3	319.6
52.5°	132.8	137.0	132.8	137.0	141.2	149.4	145.2	161.9	161.9
55°	66.4	62.3	70.6	78.9	78.9	78.9	78.9	78.9	74.7
57.5°	49.8	53.9	45.7	49.8	45.7	45.7	41.5	45.7	49.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	33.2	29.0	33.2	37.4	41.5	37.4	29.0	33.2	37.4
62.5°	16.6	16.6	16.6	24.9	37.4	29.0	24.9	20.7	20.7
65°	24.9	16.6	20.7	24.9	20.7	20.7	16.6	20.7	16.6
67.5°	12.5	20.7	12.5	8.3	12.5	16.6	12.5	8.3	8.3
70°	0.0	4.2	4.2	12.5	12.5	12.5	12.5	8.3	8.3
72.5°	4.2	4.2	4.2	8.3	4.2	8.3	4.2	4.2	8.3
75°	0.0	0.0	4.2	4.2	0.0	4.2	0.0	0.0	0.0
77.5°	4.2	0.0	4.2	4.2	0.0	0.0	0.0	4.2	0.0
80°	0.0	0.0	4.2	0.0	0.0	0.0	0.0	0.0	4.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)