

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: P247800

Luminaire Tested: **LD8B175D010 ER8B175930 8LBW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247800
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-69)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175930 8LBW0LI
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15969.7 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

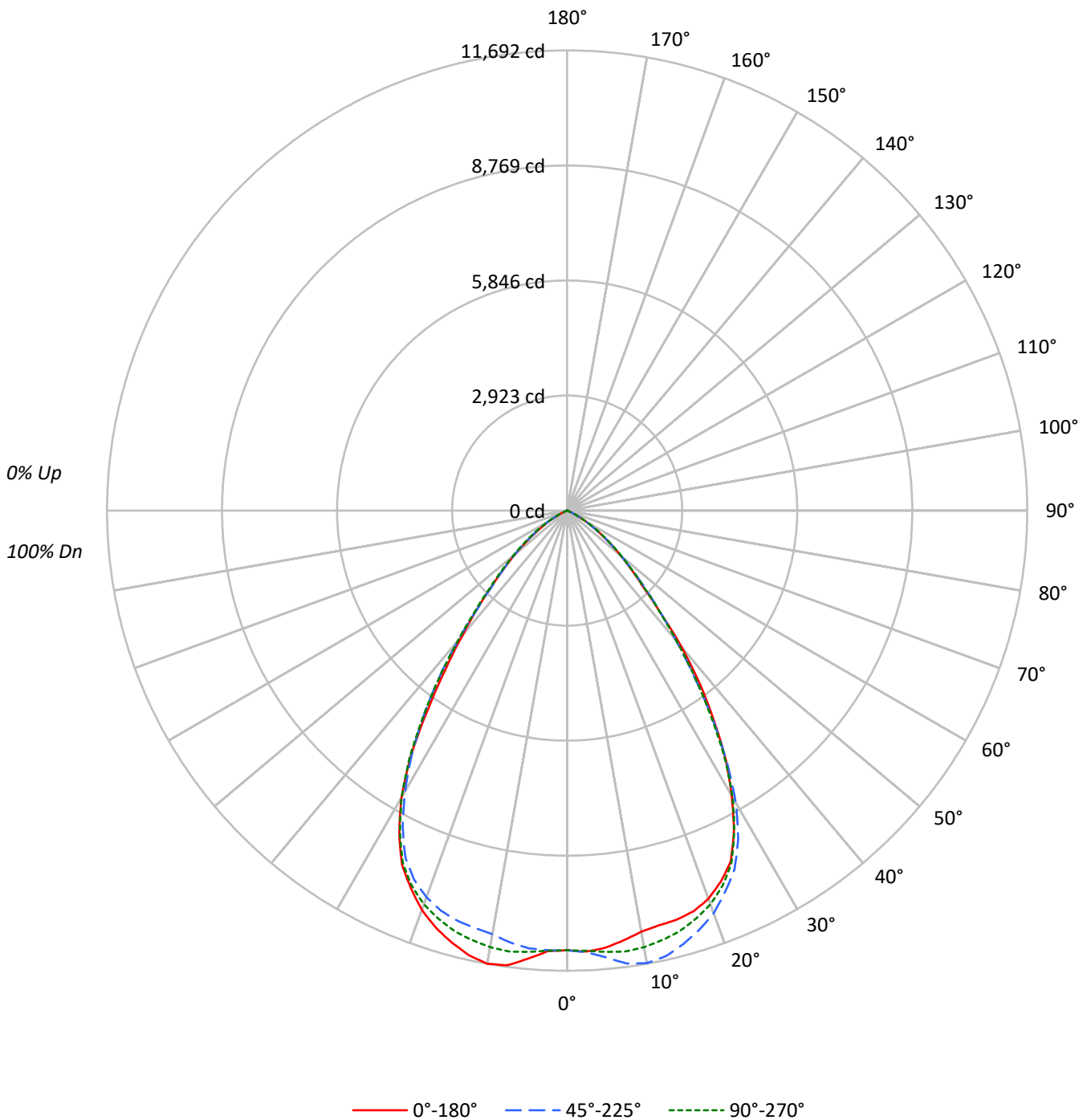
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92	92	92	92			
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	90	87	85	83	83	83	83			
3	100	92	86	82	97	91	85	81	88	84	80	86	82	79	83	80	77	76	76	76	76			
4	93	85	78	73	92	84	78	73	81	76	72	79	75	71	77	74	70	69	69	69	69			
5	88	78	71	66	86	77	71	66	75	70	65	73	69	65	72	68	64	63	63	63	63			
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57	57	57	57			
7	78	67	60	55	76	66	60	55	65	59	55	64	58	54	62	58	54	53	53	53	53			
8	73	62	55	51	72	62	55	51	60	55	50	59	54	50	58	54	50	48	48	48	48			
9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	45	45	45	45			
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41	41	41	41			

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°	1076.4	6.7
10°-20°	3117.3	19.5
20°-30°	4471.3	28.0
30°-40°	3945.7	24.7
40°-50°	2184.7	13.7
50°-60°	962.7	6.0
60°-70°	194.5	1.2
70°-80°	14.6	0.1
80°-90°	2.7	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°	8665.0	54.3
0°-40°	12610.6	79.0
0°-60°	15758.0	98.7
0°-90°	15969.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15969.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11169	11169	11169	11169	11169	
5°	11150	11395	11255	11164	11428	###
15°	10763	11403	11059	10789	11355	3036
25°	9837	10058	9879	9731	9931	4444
35°	6494	6401	6355	6359	6163	4028
45°	2702	2816	2768	2665	2678	2200
55°	1054	1050	1085	1029	986	966
65°	137	147	171	155	144	189
75°	14	14	10	11	17	14
85°	10	6	3	8	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°	11169.2	11169.2	11169.2	11169.2	11169.2	11169.2	11169.2	11169.2	11169.2
2.5°	11215.7	11169.2	11230.7	11192.5	11195.3	11137.5	11183.1	11226.9	11202.7
5°	11149.6	11192.5	11394.7	11389.1	11255.0	11080.6	11163.6	11363.1	11428.4
7.5°	11012.5	11167.3	11606.4	11646.5	11301.6	10934.2	11069.4	11485.2	11651.1
10°	10863.4	11086.1	11676.3	11754.7	11263.4	10779.4	10932.3	11456.3	11692.1
12.5°	10791.5	11007.0	11595.2	11670.7	11175.7	10704.9	10859.6	11346.3	11565.4
15°	10762.7	10924.9	11403.1	11472.2	11059.1	10663.0	10788.7	11186.9	11354.7
17.5°	10675.1	10786.9	11165.4	11209.2	10874.6	10560.4	10659.1	10964.1	11110.5
20°	10496.9	10571.6	10889.5	10912.8	10643.3	10376.6	10453.1	10693.7	10793.4
22.5°	10203.2	10252.7	10487.6	10496.0	10319.8	10088.6	10152.0	10340.3	10377.7
25°	9836.9	9841.5	10057.8	10017.7	9878.8	9664.4	9730.6	9891.9	9931.1
27.5°	9177.7	9193.5	9412.7	9359.6	9195.5	9009.0	9049.9	9197.4	9236.5
30°	8360.1	8448.6	8575.4	8549.3	8408.6	8221.2	8229.6	8374.1	8416.0
32.5°	7500.5	7474.4	7539.6	7520.1	7447.4	7299.1	7348.5	7385.8	7396.0
35°	6494.5	6473.1	6401.2	6310.9	6354.7	6412.5	6359.3	6277.3	6162.6
37.5°	5527.7	5407.5	5267.6	5173.4	5329.1	5389.8	5337.5	5159.4	5067.1
40°	4502.2	4375.4	4299.8	4276.5	4323.1	4367.9	4309.1	4222.5	4131.1
42.5°	3472.0	3471.1	3489.7	3485.0	3453.4	3389.0	3342.4	3379.7	3364.7
45°	2701.8	2743.8	2816.5	2828.6	2768.1	2673.9	2664.6	2700.0	2678.5
47.5°	2199.3	2214.2	2240.3	2277.6	2243.1	2195.6	2171.4	2182.6	2163.0
50°	1773.3	1777.0	1789.1	1817.1	1804.0	1771.4	1748.1	1734.1	1726.7
52.5°	1392.8	1384.4	1393.9	1403.2	1420.9	1399.5	1379.8	1350.0	1326.7
55°	1054.4	1047.9	1049.8	1057.2	1085.2	1061.0	1029.3	1009.7	985.5
57.5°	765.4	744.0	748.6	773.8	799.9	789.6	761.7	730.0	700.2
60°	515.5	511.0	509.9	537.0	556.6	552.9	521.2	497.8	487.6
62.5°	304.9	302.1	309.5	321.6	344.9	328.2	306.7	294.6	290.9
65°	137.1	143.6	147.3	156.6	170.6	166.9	154.8	141.7	143.6
67.5°	59.6	45.7	51.2	57.8	54.0	56.8	50.3	53.1	51.2
70°	28.9	30.7	28.9	36.3	33.5	35.4	28.9	34.5	27.0
72.5°	20.5	17.7	22.4	26.1	22.4	26.1	23.3	17.7	14.0
75°	14.0	8.4	14.0	8.4	10.2	14.9	11.2	14.9	16.8
77.5°	1.9	6.5	2.8	3.7	1.9	4.7	4.7	2.8	8.4
80°	1.9	2.8	1.9	3.7	5.6	0.9	3.7	8.4	0.0
82.5°	6.5	0.0	0.9	0.0	0.9	1.9	0.0	1.9	0.0
85°	10.2	2.8	5.6	13.0	2.8	5.6	8.4	3.7	3.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.9	0.0	2.8	5.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)