

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: P247941

Luminaire Tested: **LD8B175D010 ER8B175927 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247941
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 ER8B175927 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14387.6 lumens
Efficiency: N/A
Efficacy: 81.2 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

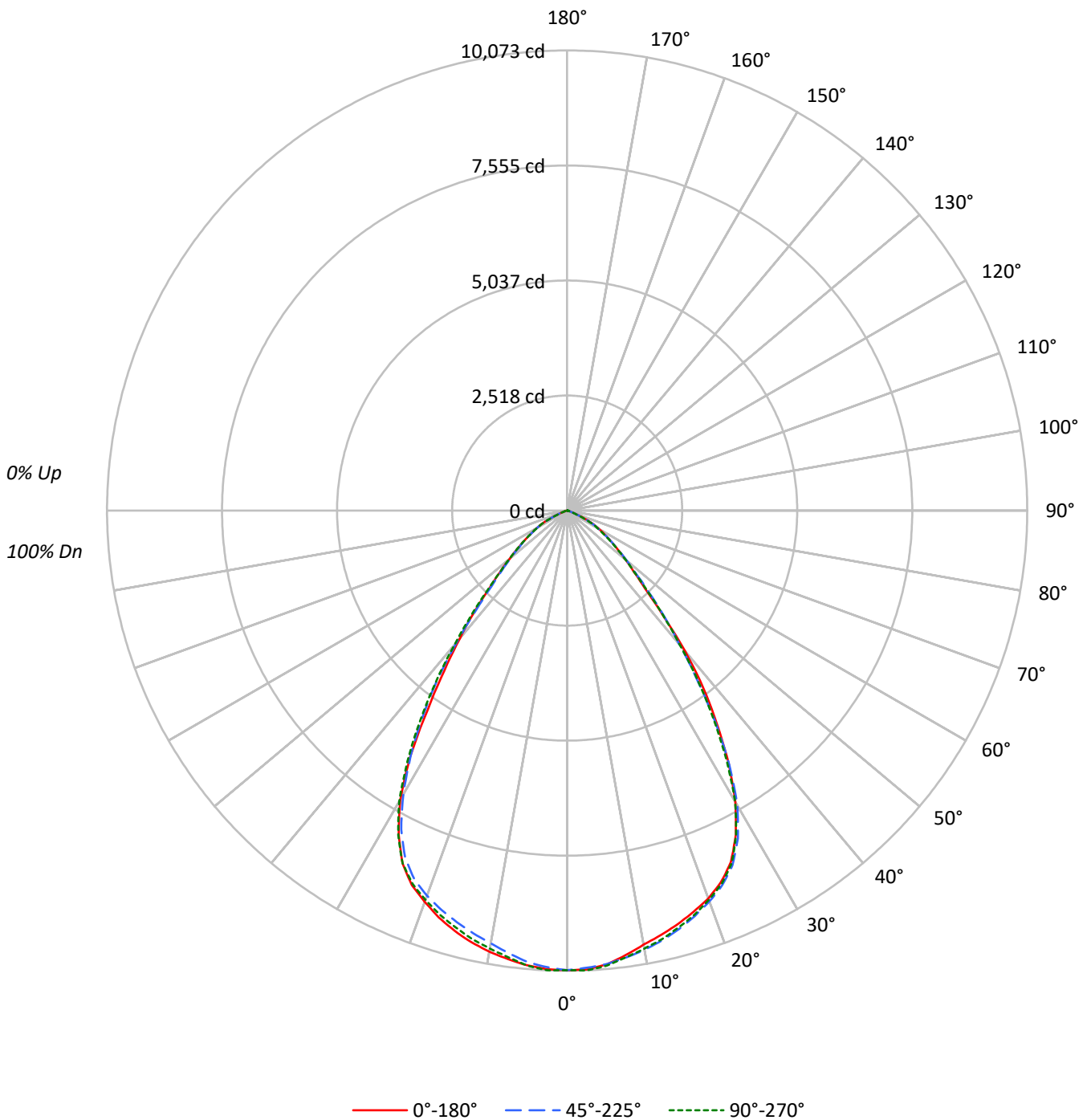
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	942.4	6.5
10°-20°	2656.7	18.5
20°-30°	3851.8	26.8
30°-40°	3462.3	24.1
40°-50°	1951.0	13.6
50°-60°	1039.5	7.2
60°-70°	415.5	2.9
70°-80°	55.3	0.4
80°-90°	13.1	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°	7450.9	51.8
0°-40°	10913.2	75.9
0°-60°	13903.8	96.6
0°-90°	14387.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14387.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10061	10061	10061	10061	10061	
5°	9971	9962	9999	9920	9994	941
15°	9369	9477	9444	9327	9522	2644
25°	8486	8566	8519	8387	8526	3852
35°	5732	5650	5604	5526	5323	3556
45°	2396	2526	2459	2343	2403	1968
55°	1166	1169	1144	1118	1135	1062
65°	448	427	396	385	401	444
75°	35	45	43	42	35	52
85°	2	11	5	15	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°	10061.0	10061.0	10061.0	10061.0	10061.0	10061.0	10061.0	10061.0	10061.0
2.5°	10053.9	10032.8	10016.8	10046.9	10073.4	10000.9	10006.2	10038.0	10048.6
5°	9970.8	9951.3	9962.0	9986.7	9999.1	9908.0	9920.4	9974.4	9993.8
7.5°	9815.2	9830.1	9868.3	9900.1	9862.9	9755.9	9773.6	9866.5	9904.5
10°	9646.2	9681.6	9761.2	9798.3	9735.5	9598.5	9618.9	9743.5	9803.7
12.5°	9511.8	9550.7	9633.8	9662.2	9606.5	9458.8	9479.9	9609.1	9680.7
15°	9368.6	9403.9	9477.3	9500.3	9443.7	9307.5	9326.9	9450.8	9522.4
17.5°	9206.7	9237.6	9303.1	9324.3	9274.8	9130.6	9161.6	9276.5	9339.3
20°	9036.0	9058.1	9104.1	9116.4	9068.7	8959.9	8974.1	9073.1	9113.8
22.5°	8803.4	8831.7	8874.1	8887.4	8843.2	8723.8	8737.1	8834.4	8878.6
25°	8485.9	8527.5	8565.5	8582.3	8518.6	8360.3	8386.9	8470.0	8525.7
27.5°	7993.2	8026.9	8094.2	8095.8	8008.3	7843.8	7865.9	7973.0	7987.0
30°	7360.1	7391.0	7450.2	7437.0	7353.0	7157.5	7175.2	7279.5	7303.4
32.5°	6584.4	6595.9	6611.8	6607.5	6504.9	6412.8	6376.6	6389.0	6397.8
35°	5731.9	5752.2	5649.6	5593.8	5603.6	5611.6	5525.8	5398.4	5323.3
37.5°	4905.8	4808.5	4682.0	4638.7	4719.2	4745.7	4667.8	4477.7	4407.9
40°	4008.2	3921.4	3821.5	3829.5	3827.7	3846.3	3748.2	3678.3	3654.3
42.5°	3084.9	3085.6	3151.1	3106.0	3097.2	2968.1	2930.1	2969.0	3011.4
45°	2395.9	2475.5	2525.8	2512.6	2458.7	2342.8	2342.8	2410.9	2402.9
47.5°	1972.2	2000.5	2038.6	2035.9	1997.0	1912.0	1926.2	1973.1	1997.0
50°	1667.1	1679.5	1697.2	1682.1	1658.2	1605.1	1604.4	1637.0	1651.2
52.5°	1394.7	1401.8	1397.4	1389.4	1376.1	1347.9	1339.0	1366.4	1369.9
55°	1165.6	1178.9	1169.2	1147.0	1144.5	1118.8	1117.9	1140.0	1134.7
57.5°	971.1	957.8	944.6	926.0	923.3	915.4	924.2	927.8	922.4
60°	808.3	809.2	783.6	765.9	764.1	752.6	765.0	774.8	774.8
62.5°	650.9	647.4	631.5	604.9	609.4	604.9	610.2	612.0	604.0
65°	448.4	449.3	427.2	395.3	396.2	392.6	384.8	397.1	400.6
67.5°	238.8	237.0	220.2	208.7	204.3	206.1	214.9	217.6	207.8
70°	130.0	125.6	129.2	116.8	119.4	115.0	119.4	126.4	123.9
72.5°	66.4	70.8	63.7	58.4	65.5	64.6	75.1	69.0	61.9
75°	35.3	38.0	45.1	41.5	43.3	41.5	42.4	39.8	35.3
77.5°	25.6	28.4	32.7	31.8	30.9	29.1	32.7	36.2	29.1
80°	15.1	18.6	20.4	23.8	21.3	23.8	27.4	22.2	17.7
82.5°	9.7	15.1	15.1	16.0	23.0	15.1	24.8	22.2	17.7
85°	1.8	2.7	10.6	6.2	5.3	16.0	15.1	11.5	3.5
87.5°	0.0	6.2	14.2	7.1	11.5	10.6	15.1	16.0	3.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)