

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: P247945

Luminaire Tested: **LD8B200D010 ER8B2009730 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247945
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: LD8B200D010 ER8B2009730 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: 15949.0 lumens
Efficiency: N/A
Efficacy: 71.4 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

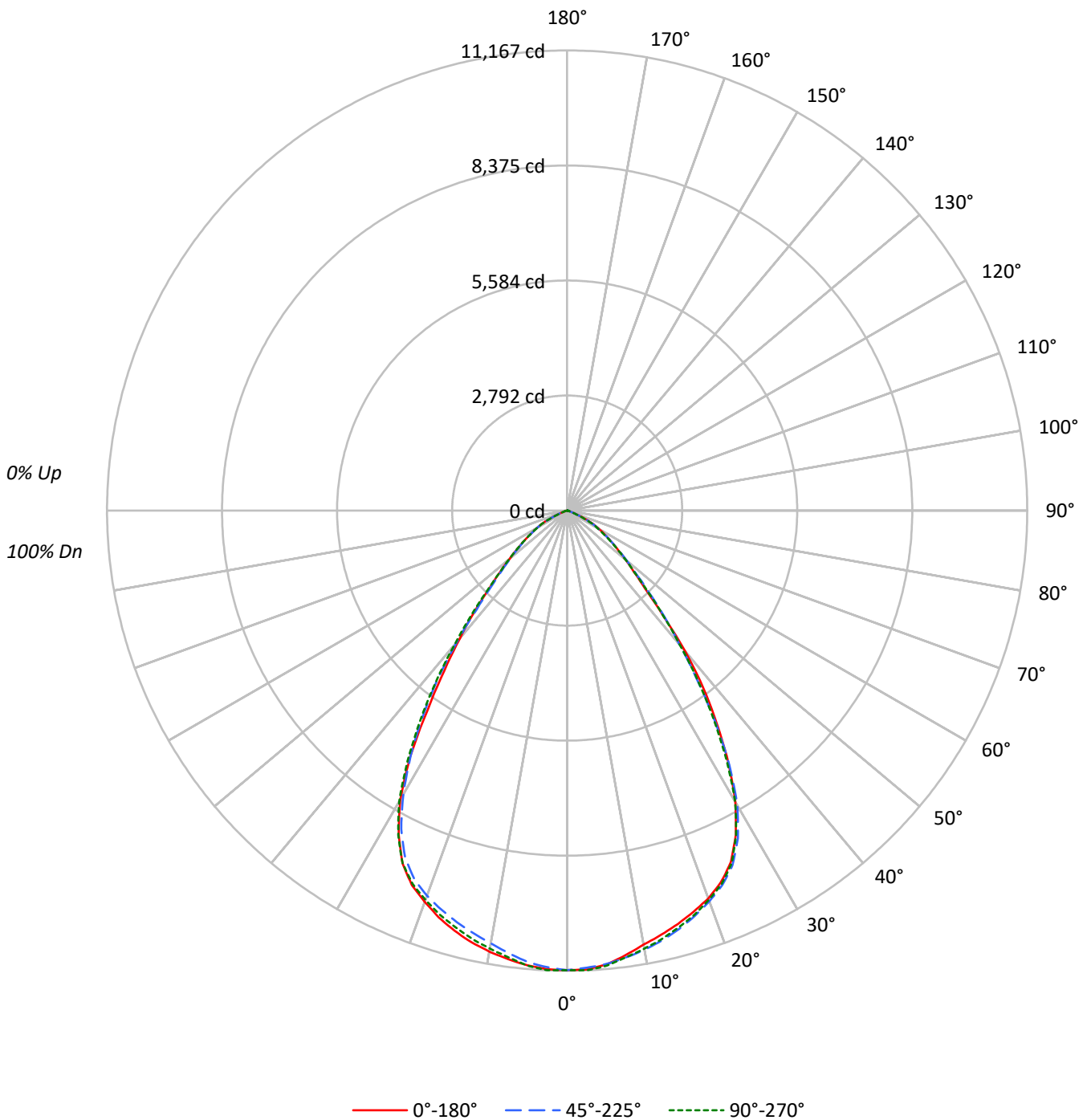
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1044.6	6.5
10°-20°	2945.1	18.5
20°-30°	4269.8	26.8
30°-40°	3838.0	24.1
40°-50°	2162.8	13.6
50°-60°	1152.3	7.2
60°-70°	460.6	2.9
70°-80°	61.3	0.4
80°-90°	14.5	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°	8259.5	51.8
0°-40°	12097.5	75.9
0°-60°	15412.7	96.6
0°-90°	15949.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15949.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11153	11153	11153	11153	11153	
5°	11053	11043	11084	10997	11078	###
15°	10385	10506	10469	10339	10556	2930
25°	9407	9495	9443	9297	9451	4270
35°	6354	6263	6212	6125	5901	3942
45°	2656	2800	2726	2597	2664	2182
55°	1292	1296	1269	1239	1258	1178
65°	497	474	439	426	444	492
75°	39	50	48	47	39	58
85°	2	12	6	17	4	6
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°	11152.9	11152.9	11152.9	11152.9	11152.9	11152.9	11152.9	11152.9	11152.9
2.5°	11145.0	11121.5	11103.8	11137.2	11166.6	11086.2	11092.1	11127.4	11139.1
5°	11052.9	11031.3	11043.1	11070.5	11084.2	10983.3	10997.0	11056.8	11078.4
7.5°	10880.3	10897.0	10939.1	10974.4	10933.3	10814.6	10834.2	10937.2	10979.3
10°	10693.1	10732.3	10820.5	10861.7	10792.1	10640.1	10662.7	10800.9	10867.6
12.5°	10544.0	10587.2	10679.3	10710.7	10648.9	10485.2	10508.8	10651.9	10731.3
15°	10385.2	10424.4	10505.8	10531.3	10468.6	10317.6	10339.1	10476.4	10555.8
17.5°	10205.8	10240.1	10312.7	10336.2	10281.3	10121.5	10155.8	10283.3	10352.9
20°	10016.6	10041.1	10092.1	10105.8	10052.9	9932.3	9948.0	10057.8	10102.9
22.5°	9758.8	9790.1	9837.2	9851.9	9802.9	9670.5	9685.2	9793.1	9842.1
25°	9406.8	9452.9	9495.0	9513.7	9443.1	9267.6	9297.0	9389.2	9450.9
27.5°	8860.7	8898.0	8972.5	8974.4	8877.4	8695.0	8719.5	8838.2	8853.9
30°	8158.8	8193.1	8258.8	8244.1	8150.9	7934.3	7953.9	8069.6	8096.0
32.5°	7299.0	7311.7	7329.4	7324.5	7210.7	7108.8	7068.6	7082.3	7092.1
35°	6353.9	6376.4	6262.7	6200.9	6211.7	6220.5	6125.4	5984.3	5900.9
37.5°	5438.2	5330.4	5190.2	5142.1	5231.3	5260.7	5174.5	4963.7	4886.2
40°	4443.1	4347.0	4236.2	4245.1	4243.1	4263.7	4154.9	4077.4	4051.0
42.5°	3419.6	3420.6	3493.1	3443.1	3433.3	3290.2	3248.0	3291.2	3338.2
45°	2655.9	2744.1	2800.0	2785.3	2725.5	2597.0	2597.0	2672.5	2663.7
47.5°	2186.3	2217.6	2259.8	2256.8	2213.7	2119.6	2135.3	2187.2	2213.7
50°	1848.0	1861.8	1881.4	1864.7	1838.2	1779.4	1778.4	1814.7	1830.4
52.5°	1546.1	1553.9	1549.0	1540.2	1525.5	1494.1	1484.3	1514.7	1518.6
55°	1292.1	1306.9	1296.1	1271.6	1268.6	1240.2	1239.2	1263.7	1257.8
57.5°	1076.5	1061.8	1047.1	1026.5	1023.5	1014.7	1024.5	1028.4	1022.5
60°	896.1	897.1	868.6	849.0	847.1	834.3	848.0	858.8	858.8
62.5°	721.6	717.6	700.0	670.6	675.5	670.6	676.5	678.4	669.6
65°	497.1	498.0	473.5	438.2	439.2	435.3	426.5	440.2	444.1
67.5°	264.7	262.7	244.1	231.4	226.5	228.4	238.2	241.2	230.4
70°	144.1	139.2	143.1	129.4	132.4	127.5	132.4	140.2	137.3
72.5°	73.5	78.4	70.6	64.7	72.5	71.6	83.3	76.5	68.6
75°	39.2	42.2	50.0	46.1	48.0	46.1	47.1	44.1	39.2
77.5°	28.4	31.4	36.3	35.3	34.3	32.4	36.3	40.2	32.4
80°	16.7	20.6	22.5	26.5	23.5	26.5	30.4	24.5	19.6
82.5°	10.8	16.7	16.7	17.6	25.5	16.7	27.5	24.5	19.6
85°	2.0	2.9	11.8	6.9	5.9	17.6	16.7	12.7	3.9
87.5°	0.0	6.9	15.7	7.8	12.7	11.8	16.7	17.6	3.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)