

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: P247768

Luminaire Tested: **LD8B200D010 ER8B200827 8LBW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247768
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: LD8B200D010 ER8B200827 8LBW0LI
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21386.0 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

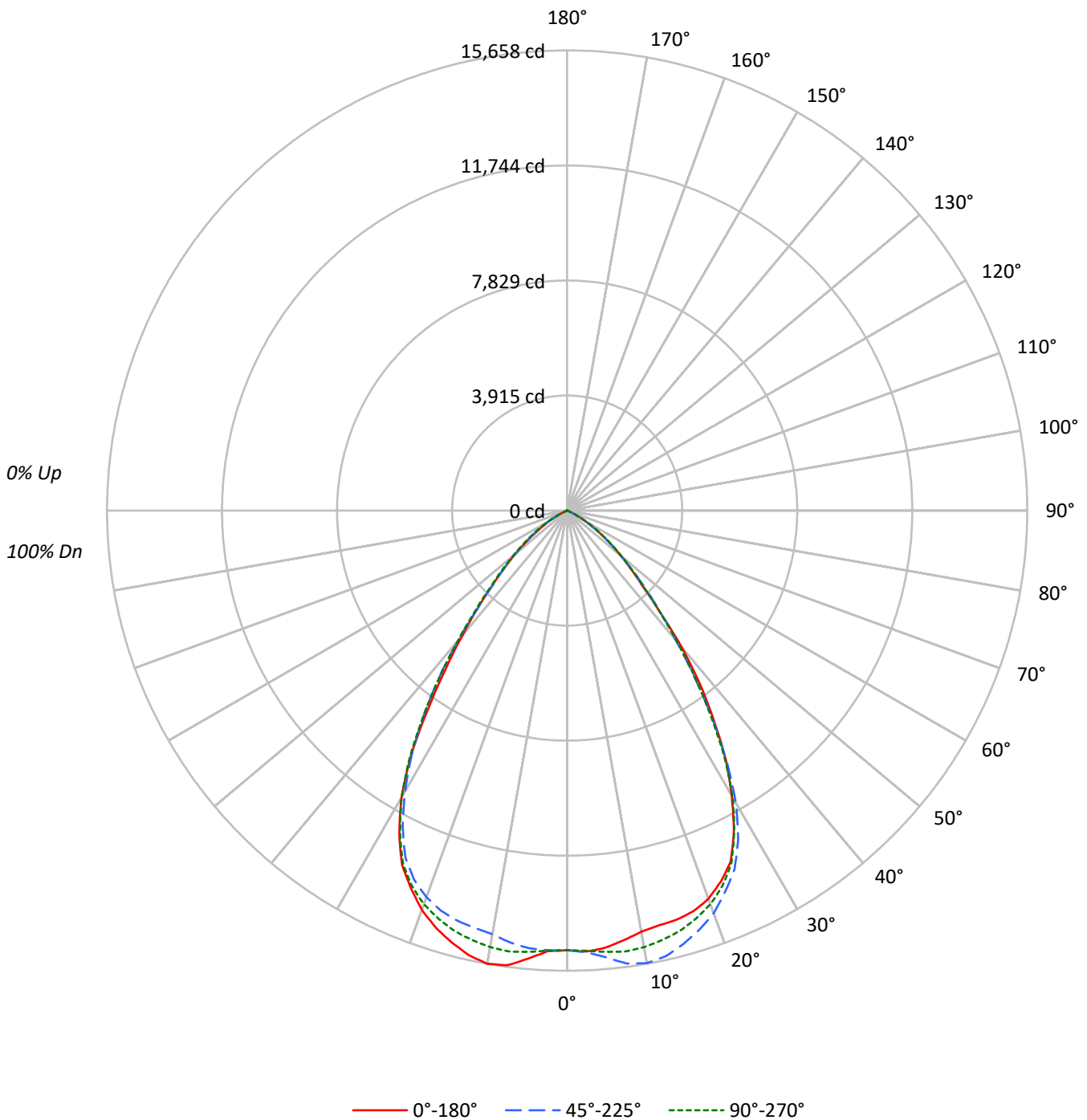
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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			
1	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92					92			
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	90	87	85	83					83			
3	100	92	86	82	97	91	85	81	88	84	80	86	82	79	83	80	77	76					76			
4	93	85	78	73	92	84	78	73	81	76	72	79	75	71	77	74	70	69					69			
5	88	78	71	66	86	77	71	66	75	70	65	73	69	65	72	68	64	63					63			
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57					57			
7	78	67	60	55	76	66	60	55	65	59	55	64	58	54	62	58	54	53					53			
8	73	62	55	51	72	62	55	51	60	55	50	59	54	50	58	54	50	48					48			
9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	45					45			
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41					41			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	461225	461225	461225
5°	462176	466543	473731
10°	455518	472289	490274
15°	460119	472793	485428
20°	461288	467720	474316
25°	448203	450115	452493
30°	398635	400946	401302
35°	327399	320348	310666
40°	242695	233046	222693
45°	157787	161650	156426
50°	113921	115897	110927
55°	75917	78132	70949
60°	42579	45971	40272
65°	13389	16672	14031
70°	3489	4048	3264
75°	2228	1632	2681
80°	444	1332	0
85°	4847	1309	1769



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1441.4	6.7
10°-20°	4174.5	19.5
20°-30°	5987.8	28.0
30°-40°	5283.9	24.7
40°-50°	2925.6	13.7
50°-60°	1289.2	6.0
60°-70°	260.5	1.2
70°-80°	19.5	0.1
80°-90°	3.6	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°	11603.7	54.3
0°-40°	16887.6	79.0
0°-60°	21102.4	98.7
0°-90°	21386.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21386.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14957	14957	14957	14957	14957	
5°	14931	15259	15072	14950	15304	###
15°	14413	15271	14810	14448	15206	4066
25°	13173	13469	13229	13031	13299	5951
35°	8697	8572	8510	8516	8253	5395
45°	3618	3772	3707	3568	3587	2947
55°	1412	1406	1453	1378	1320	1294
65°	184	197	228	207	192	253
75°	19	19	14	15	22	18
85°	14	8	4	11	5	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°	14957.2	14957.2	14957.2	14957.2	14957.2	14957.2	14957.2	14957.2	14957.2
2.5°	15019.7	14957.2	15039.6	14988.4	14992.2	14914.8	14976.0	15034.6	15002.2
5°	14931.0	14988.4	15259.4	15251.9	15072.1	14838.6	14949.7	15216.9	15304.3
7.5°	14747.5	14954.7	15542.8	15596.5	15134.5	14642.6	14823.6	15380.5	15602.7
10°	14547.7	14846.1	15636.4	15741.3	15083.3	14435.4	14640.1	15341.8	15657.7
12.5°	14451.6	14740.0	15527.8	15628.9	14966.0	14335.5	14542.7	15194.5	15487.9
15°	14412.9	14630.1	15270.6	15363.0	14809.9	14279.3	14447.8	14981.0	15205.7
17.5°	14295.5	14445.3	14952.2	15010.9	14562.7	14142.0	14274.3	14682.6	14878.6
20°	14057.1	14156.9	14582.7	14613.9	14253.1	13896.0	13998.4	14320.5	14454.1
22.5°	13663.8	13729.9	14044.6	14055.8	13819.8	13510.2	13595.1	13847.3	13897.2
25°	13173.1	13179.3	13469.0	13415.3	13229.3	12942.1	13030.8	13246.8	13299.2
27.5°	12290.4	12311.6	12605.0	12533.9	12314.1	12064.4	12119.4	12316.6	12369.1
30°	11195.5	11314.1	11483.9	11448.9	11260.4	11009.4	11020.7	11214.2	11270.4
32.5°	10044.3	10009.4	10096.8	10070.5	9973.2	9774.6	9840.8	9890.8	9904.5
35°	8697.2	8668.5	8572.3	8451.2	8509.9	8587.3	8516.1	8406.3	8252.7
37.5°	7402.5	7241.4	7054.1	6928.0	7136.5	7217.7	7147.8	6909.3	6785.7
40°	6029.1	5859.3	5758.2	5726.9	5789.4	5849.3	5770.6	5654.5	5532.2
42.5°	4649.5	4648.2	4673.2	4667.0	4624.5	4538.4	4475.9	4525.9	4505.9
45°	3618.2	3674.4	3771.8	3788.0	3706.8	3580.7	3568.3	3615.7	3587.0
47.5°	2945.3	2965.2	3000.2	3050.1	3003.9	2940.3	2907.8	2922.8	2896.6
50°	2374.7	2379.7	2395.9	2433.4	2415.9	2372.2	2341.0	2322.2	2312.3
52.5°	1865.3	1854.0	1866.5	1879.0	1902.7	1874.0	1847.8	1807.9	1776.6
55°	1412.1	1403.3	1405.8	1415.8	1453.3	1420.8	1378.4	1352.1	1319.7
57.5°	1025.0	996.3	1002.6	1036.3	1071.2	1057.5	1020.0	977.6	937.6
60°	690.4	684.2	682.9	719.1	745.4	740.4	697.9	666.7	653.0
62.5°	408.3	404.5	414.5	430.7	462.0	439.5	410.8	394.5	389.5
65°	183.5	192.3	197.3	209.8	228.5	223.5	207.3	189.8	192.3
67.5°	79.9	61.2	68.7	77.4	72.4	76.2	67.4	71.2	68.7
70°	38.7	41.2	38.7	48.7	44.9	47.4	38.7	46.2	36.2
72.5°	27.5	23.7	30.0	35.0	30.0	35.0	31.2	23.7	18.7
75°	18.7	11.2	18.7	11.2	13.7	20.0	15.0	20.0	22.5
77.5°	2.5	8.7	3.7	5.0	2.5	6.2	6.2	3.7	11.2
80°	2.5	3.7	2.5	5.0	7.5	1.2	5.0	11.2	0.0
82.5°	8.7	0.0	1.2	0.0	1.2	2.5	0.0	2.5	0.0
85°	13.7	3.7	7.5	17.5	3.7	7.5	11.2	5.0	5.0
87.5°	0.0	0.0	0.0	0.0	0.0	1.2	0.0	3.7	7.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)