

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: P248164

Luminaire Tested: **LD8B200D010 ER8B200827 8LBW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248164
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-73)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B200827 8LBW0GPH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18130.0 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

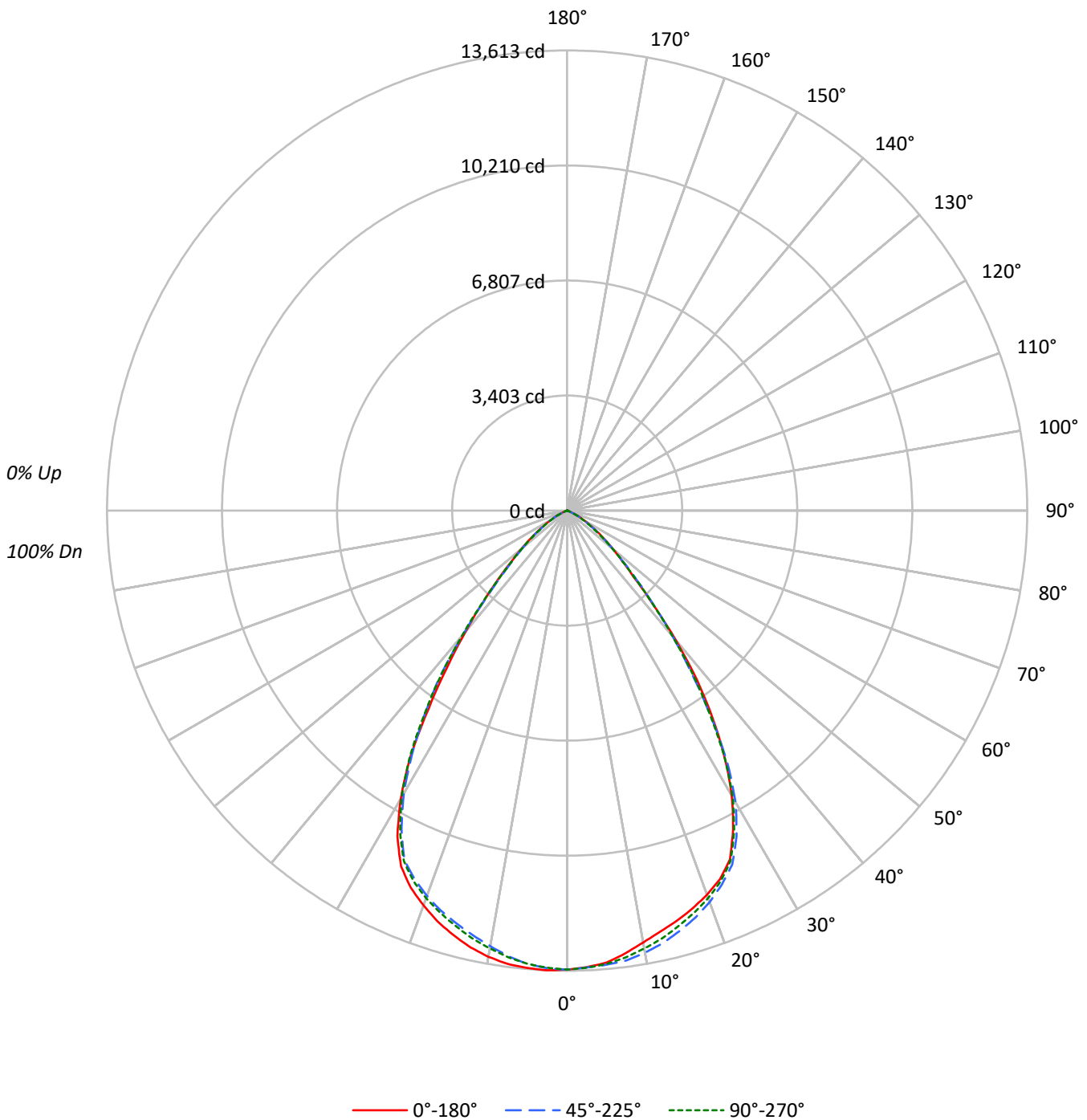
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	100	100	98	97	96	95	94	92					92			
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84					84			
3	100	92	87	82	98	91	86	82	88	84	80	86	82	79	84	80	78	76					76			
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69					69			
5	88	79	72	67	86	78	71	67	76	70	66	74	69	65	72	68	65	63					63			
6	83	73	66	61	81	72	66	61	70	65	60	69	64	60	67	63	60	58					58			
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53					53			
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49					49			
9	70	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45					45			
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	42					42			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	418729	418729	418729
5°	415497	416658	420443
10°	406151	411897	419716
15°	400935	406317	415045
20°	396846	400331	407826
25°	387548	389120	395323
30°	346891	348672	350626
35°	282708	277020	268840
40°	200481	194902	187716
45°	122236	124303	126807
50°	84451	82897	84634
55°	57326	53294	54976
60°	37189	32415	34037
65°	19584	15578	16760
70°	5175	4391	3940
75°	894	1787	1037
80°	0	0	444
85°	885	885	885



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1276.8	7.0
10°-20°	3596.8	19.8
20°-30°	5186.7	28.6
30°-40°	4555.1	25.1
40°-50°	2303.3	12.7
50°-60°	942.8	5.2
60°-70°	247.8	1.4
70°-80°	17.5	0.1
80°-90°	3.1	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°	10060.3	55.5
0°-40°	14615.4	80.6
0°-60°	17861.5	98.5
0°-90°	18130.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18130.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13579	13579	13579	13579	13579	
5°	13423	13484	13460	13460	13583	###
15°	12559	12870	12728	12645	13001	3544
25°	11390	11554	11437	11395	11619	5146
35°	7510	7381	7359	7328	7142	4630
45°	2803	2934	2850	2778	2908	2313
55°	1066	1024	991	989	1023	985
65°	268	238	214	211	230	274
75°	8	5	15	5	9	19
85°	2	2	2	1	2	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°	13579.1	13579.1	13579.1	13579.1	13579.1	13579.1	13579.1	13579.1	13579.1
2.5°	13516.7	13582.8	13524.2	13559.1	13535.4	13496.7	13550.4	13525.4	13612.8
5°	13423.0	13502.9	13484.2	13527.9	13460.5	13389.3	13460.5	13466.7	13582.8
7.5°	13209.5	13346.9	13425.5	13478.0	13329.4	13213.3	13298.2	13374.3	13524.2
10°	12971.1	13137.1	13279.5	13360.6	13154.6	12984.8	13085.9	13215.8	13404.3
12.5°	12751.3	12934.9	13103.4	13182.1	12964.8	12773.8	12869.9	13031.0	13233.3
15°	12559.0	12710.1	12869.9	12951.1	12727.6	12546.6	12645.2	12793.8	13001.0
17.5°	12339.3	12481.6	12622.7	12686.4	12479.1	12321.8	12411.7	12539.1	12745.1
20°	12093.3	12215.7	12323.1	12398.0	12199.5	12049.6	12130.8	12249.4	12427.9
22.5°	11804.9	11897.3	11967.2	12034.7	11873.6	11725.0	11794.9	11888.6	12077.1
25°	11390.4	11484.1	11554.0	11630.1	11436.6	11309.3	11395.4	11435.4	11618.9
27.5°	10631.3	10749.9	10854.8	10922.2	10701.2	10591.4	10613.8	10680.0	10874.8
30°	9742.3	9799.8	9959.6	9979.6	9792.3	9601.3	9662.4	9732.4	9847.2
32.5°	8686.1	8718.5	8810.9	8820.9	8681.1	8533.8	8535.0	8503.8	8619.9
35°	7510.0	7436.3	7381.4	7418.8	7358.9	7385.1	7327.7	7184.1	7141.6
37.5°	6295.1	6247.7	6006.7	5988.0	6127.8	6212.7	6156.5	5836.9	5814.4
40°	4980.4	4926.7	4836.8	4823.1	4841.8	4890.5	4786.9	4692.0	4663.3
42.5°	3726.9	3755.6	3784.3	3810.5	3756.9	3652.0	3647.0	3629.5	3696.9
45°	2803.0	2864.1	2934.1	2969.0	2850.4	2769.3	2778.0	2816.7	2907.8
47.5°	2216.2	2228.6	2254.9	2284.8	2214.9	2111.3	2138.7	2201.2	2241.1
50°	1760.4	1772.9	1765.4	1761.7	1728.0	1665.6	1704.3	1750.5	1764.2
52.5°	1388.4	1372.1	1358.4	1349.7	1328.4	1303.5	1311.0	1349.7	1370.9
55°	1066.3	1053.8	1023.8	1011.3	991.3	985.1	988.8	1018.8	1022.6
57.5°	801.6	784.1	754.1	730.4	731.6	721.7	726.6	747.9	759.1
60°	603.0	591.8	539.4	543.1	525.6	523.1	534.4	546.9	551.9
62.5°	417.0	420.8	380.8	375.8	367.1	368.3	375.8	385.8	387.0
65°	268.4	252.2	238.5	228.5	213.5	206.0	211.0	238.5	229.7
67.5°	104.9	111.1	89.9	104.9	97.4	82.4	94.9	106.1	101.1
70°	57.4	58.7	48.7	46.2	48.7	44.9	51.2	57.4	43.7
72.5°	36.2	36.2	26.2	26.2	33.7	22.5	26.2	41.2	32.5
75°	7.5	8.7	5.0	2.5	15.0	7.5	5.0	15.0	8.7
77.5°	0.0	8.7	0.0	0.0	0.0	0.0	2.5	2.5	2.5
80°	0.0	0.0	0.0	3.7	0.0	0.0	0.0	2.5	2.5
82.5°	0.0	2.5	0.0	0.0	0.0	0.0	0.0	2.5	0.0
85°	2.5	10.0	2.5	0.0	2.5	2.5	1.2	7.5	2.5
87.5°	16.2	7.5	1.2	7.5	6.2	7.5	8.7	7.5	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)