

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: P248161

Luminaire Tested: **LD8B200D010 ER8B200930 8LBS0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248161
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-94)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B200930 8LBS0WH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19858.5 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.23
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

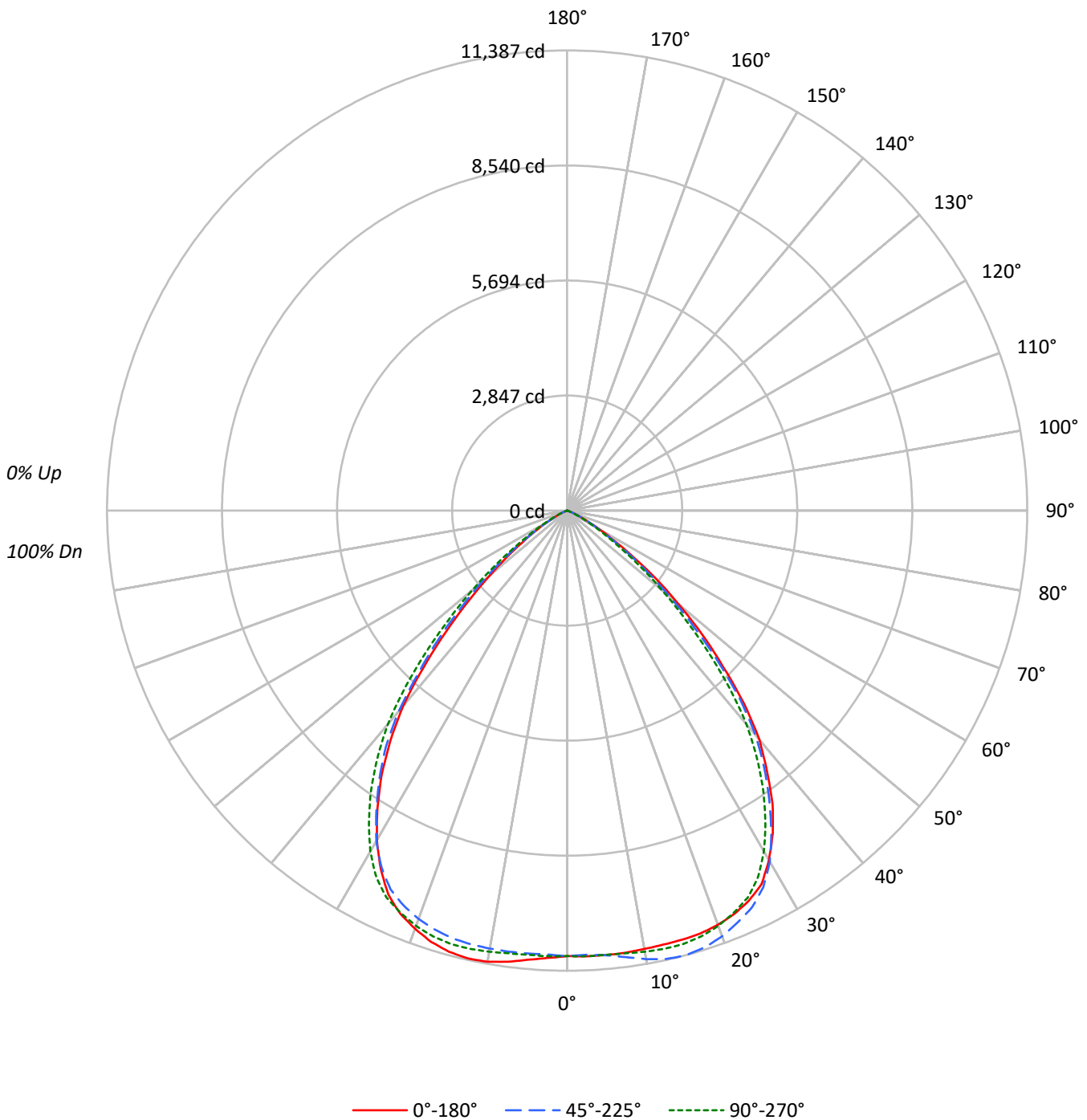
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82
3	98	90	84	79	96	89	83	79	86	81	78	84	80	76	81	78	75	73
4	92	82	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66
5	86	75	68	63	84	74	68	63	72	67	62	71	66	62	69	65	61	59
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53
7	75	64	56	51	73	63	56	51	62	55	51	60	55	50	59	54	50	48
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37

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°	1057.1	5.3
10°-20°	3146.2	15.8
20°-30°	4836.1	24.4
30°-40°	5227.7	26.3
40°-50°	3761.8	18.9
50°-60°	1518.0	7.6
60°-70°	291.9	1.5
70°-80°	17.3	0.1
80°-90°	2.4	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°	9039.4	45.5
0°-40°	14267.1	71.8
0°-60°	19546.8	98.4
0°-90°	19858.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19858.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11025	11025	11025	11025	11025	
5°	11041	11044	11033	11002	11156	###
15°	10994	11387	11104	10958	11300	3112
25°	10649	10831	10569	10341	10476	4886
35°	8860	8719	8465	8099	8003	5486
45°	5449	5287	4905	4502	4251	4209
55°	1986	1836	1616	1396	1277	1851
65°	321	327	241	188	185	375
75°	16	13	10	10	10	27
85°	3	2	1	1	1	4
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°	11024.7	11024.7	11024.7	11024.7	11024.7	11024.7	11024.7	11024.7	11024.7
2.5°	11041.2	11025.8	11003.8	11002.7	11037.9	11018.1	10993.9	11019.2	11081.9
5°	11041.2	11043.4	11044.4	11034.6	11033.4	11000.5	11001.6	11069.8	11155.5
7.5°	11033.4	11076.4	11143.4	11127.9	11051.0	10978.5	11008.2	11145.5	11259.9
10°	11016.0	11115.9	11269.7	11246.7	11081.9	10958.8	11006.0	11197.2	11335.7
12.5°	11000.5	11137.9	11365.4	11337.9	11107.1	10945.6	10992.9	11203.8	11353.3
15°	10993.9	11142.3	11387.3	11353.3	11103.8	10919.2	10957.7	11155.5	11299.5
17.5°	10969.8	11108.2	11332.4	11290.6	11046.7	10857.7	10874.1	11054.4	11190.6
20°	10908.2	11026.9	11210.4	11153.3	10936.8	10746.7	10752.2	10888.4	11011.5
22.5°	10803.9	10897.2	11030.2	10975.3	10773.0	10600.5	10577.4	10691.8	10795.0
25°	10648.8	10724.7	10831.3	10771.9	10568.7	10392.8	10341.1	10413.6	10476.3
27.5°	10421.4	10447.7	10508.1	10417.0	10229.0	10056.5	9948.9	9959.9	9992.8
30°	9984.0	10026.9	10032.4	9927.9	9740.0	9540.0	9441.1	9386.1	9412.5
32.5°	9469.6	9457.5	9402.6	9276.3	9129.0	8969.7	8782.8	8720.1	8734.5
35°	8859.7	8831.2	8719.1	8598.2	8465.2	8269.6	8099.3	8007.0	8002.6
37.5°	8116.8	8078.4	8004.7	7837.7	7715.7	7550.9	7365.2	7263.0	7186.1
40°	7401.4	7341.0	7254.2	7054.2	6900.3	6670.6	6480.5	6338.8	6317.8
42.5°	6478.4	6448.7	6324.5	6123.4	5931.1	5659.6	5438.8	5320.0	5258.5
45°	5448.6	5448.6	5287.1	5110.1	4904.6	4702.4	4502.4	4325.5	4250.7
47.5°	4526.6	4412.3	4259.6	4070.6	3919.9	3777.1	3565.0	3347.4	3296.9
50°	3588.1	3515.6	3335.3	3155.1	3062.8	2926.5	2759.5	2548.5	2494.7
52.5°	2772.7	2658.3	2502.3	2368.2	2281.5	2174.9	1993.5	1849.5	1822.1
55°	1985.9	1927.6	1836.3	1726.5	1615.5	1503.4	1395.6	1313.3	1276.9
57.5°	1360.6	1340.7	1264.9	1200.0	1092.4	993.4	894.6	868.2	870.3
60°	890.2	889.1	851.7	793.4	700.1	609.9	563.8	550.5	559.4
62.5°	538.5	548.4	538.5	504.4	433.0	363.8	330.8	337.4	331.9
65°	320.9	330.8	327.4	283.5	240.7	211.0	187.9	179.1	184.6
67.5°	186.9	181.4	167.0	146.2	119.8	98.9	83.5	75.8	76.9
70°	82.4	78.0	70.3	53.8	40.7	33.0	27.5	25.2	26.3
72.5°	30.7	29.7	25.2	20.9	17.6	14.2	13.2	13.2	13.2
75°	16.5	15.4	13.2	11.0	9.9	9.9	9.9	9.9	9.9
77.5°	12.1	11.0	9.9	8.7	7.7	6.6	6.6	6.6	6.6
80°	8.7	7.7	6.6	5.5	5.5	4.4	4.4	4.4	4.4
82.5°	5.5	5.5	4.4	3.3	3.3	2.2	2.2	2.2	2.2
85°	3.3	3.3	2.2	2.2	1.1	1.1	1.1	1.1	1.1
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)