

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: P250196

Luminaire Tested: **LD8B200D010 ER8B2009727 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250196
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13942)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B2009727 8LBM0WH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT
97 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14987.0 lumens
Efficiency: N/A
Efficacy: 67.1 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.8 / 0.85
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

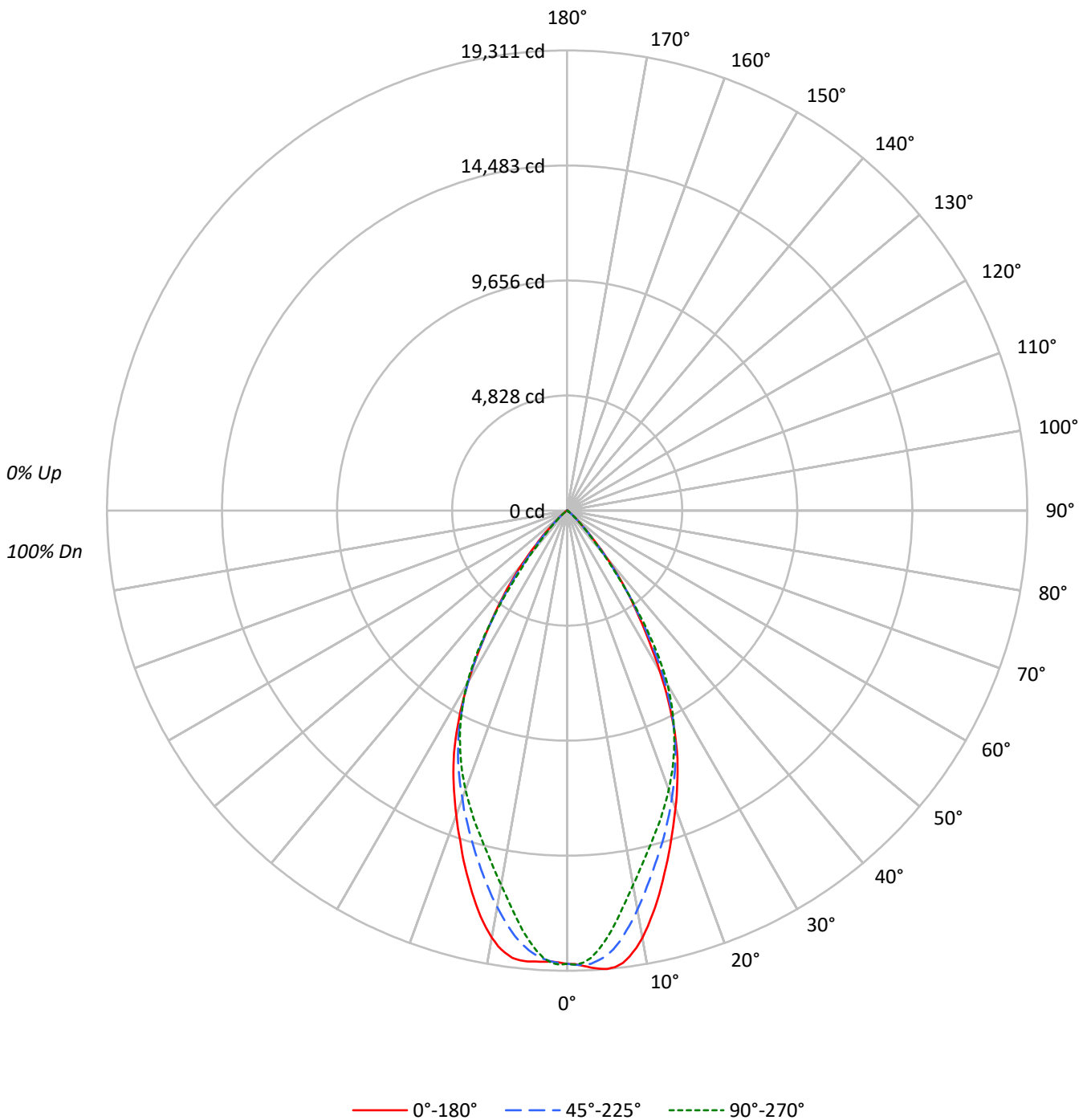
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71
6	88	80	74	69	87	79	73	69	77	72	69	76	72	68	75	71	68	66
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	64	59	56	55
10	73	63	57	54	72	63	57	54	62	57	53	61	56	53	60	56	53	52

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°	1726.6	11.5
10°-20°	4176.1	27.9
20°-30°	4894.6	32.7
30°-40°	3220.4	21.5
40°-50°	840.4	5.6
50°-60°	103.4	0.7
60°-70°	21.4	0.1
70°-80°	4.0	0.0
80°-90°	0.1	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°	10797.3	72.0
0°-40°	14017.7	93.5
0°-60°	14961.4	99.8
0°-90°	14987.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14987.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	19020	19020	19020	19020	19020	
5°	19311	18761	18141	18516	18997	###
15°	15764	14872	14114	14872	16032	4394
25°	10830	10724	10645	10826	11228	4882
35°	4925	5036	5207	5258	5341	3084
45°	957	902	842	976	1138	858
55°	74	79	88	88	83	98
65°	28	23	23	18	18	19
75°	0	5	0	0	0	2
85°	0	0	0	0	0	0
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°	19019.8	19019.8	19019.8	19019.8	19019.8	19019.8	19019.8	19019.8	19019.8
1°	19033.6	19061.5	19070.6	19098.5	19056.8	19029.1	18992.1	18964.3	18968.9
2°	19116.9	19130.8	19079.9	19061.5	18987.5	18964.3	18936.6	18931.9	18936.6
3°	19204.8	19177.0	19042.9	18918.1	18807.1	18793.2	18844.1	18918.1	18959.6
4°	19274.2	19200.2	18918.1	18686.8	18511.1	18497.3	18700.8	18890.3	18968.9
5°	19311.2	19177.0	18760.8	18372.4	18141.2	18229.0	18515.8	18853.3	18996.6
6°	19260.3	19061.5	18520.4	18002.5	17738.9	17854.5	18275.3	18765.5	18978.2
7°	19130.8	18876.5	18210.6	17600.2	17276.4	17456.8	17993.2	18617.5	18908.8
8°	18890.3	18585.1	17817.5	17133.1	16814.0	17017.4	17646.4	18404.8	18742.4
9°	18575.8	18238.3	17429.1	16707.6	16365.5	16605.9	17285.7	18122.7	18511.1
10°	18201.3	17840.6	16999.0	16263.7	15953.9	16180.5	16897.3	17794.3	18196.7
11°	17762.0	17415.2	16568.9	15847.6	15551.6	15773.6	16508.8	17401.3	17836.0
12°	17285.7	16966.6	16129.7	15445.2	15167.8	15380.5	16092.7	16994.4	17424.4
13°	16809.4	16490.3	15704.2	15056.8	14802.4	15005.9	15685.7	16550.5	16980.4
14°	16296.1	16004.8	15278.8	14686.8	14455.6	14649.8	15269.5	16101.8	16508.8
15°	15764.3	15533.0	14871.8	14330.7	14113.5	14298.3	14871.8	15639.4	16032.5
16°	15264.9	15052.1	14478.7	13979.3	13799.0	13946.9	14469.5	15177.1	15551.6
17°	14756.1	14562.0	14085.6	13632.5	13470.7	13614.0	14057.9	14710.0	15047.5
18°	14247.5	14085.6	13655.7	13267.2	13123.9	13253.3	13651.0	14238.3	14543.4
19°	13775.8	13627.8	13262.6	12934.2	12804.8	12920.3	13294.9	13785.1	14090.3
20°	13290.3	13170.0	12850.9	12582.8	12462.5	12568.9	12860.2	13336.6	13604.7
21°	12823.2	12716.9	12439.4	12212.8	12115.7	12203.6	12471.8	12901.9	13137.7
22°	12337.7	12277.6	12027.9	11838.3	11773.5	11829.0	12074.1	12444.1	12666.0
23°	11861.3	11805.9	11616.3	11459.1	11403.5	11459.1	11676.4	12009.3	12208.2
24°	11380.4	11320.4	11181.6	11079.8	11033.6	11079.8	11264.8	11546.9	11736.5
25°	10830.2	10820.9	10723.8	10668.3	10645.2	10696.0	10825.6	11070.6	11227.8
26°	10302.9	10275.2	10247.5	10238.2	10242.8	10270.6	10376.9	10561.9	10686.8
27°	9655.6	9697.2	9738.8	9794.3	9812.8	9836.0	9886.8	10020.8	10113.4
28°	9035.9	9114.5	9216.2	9327.2	9378.2	9378.2	9382.7	9456.7	9535.3
29°	8420.9	8504.1	8666.0	8832.4	8901.8	8892.5	8855.5	8887.9	8934.2
30°	7778.1	7884.5	8101.8	8319.2	8420.9	8383.9	8314.6	8282.2	8309.9
31°	7149.2	7255.6	7496.0	7731.8	7865.9	7824.4	7704.1	7681.0	7694.8
32°	6548.1	6654.4	6876.3	7126.0	7278.7	7223.2	7098.3	7061.3	7066.0
33°	5965.3	6048.6	6252.1	6483.3	6608.1	6594.2	6492.5	6446.3	6450.9
34°	5415.1	5484.5	5637.0	5812.8	5933.0	5928.3	5854.3	5859.0	5872.9
35°	4924.9	4961.9	5035.8	5133.0	5207.0	5248.5	5257.8	5294.8	5341.1
37.5°	3722.6	3736.4	3648.6	3551.4	3533.0	3653.3	3861.3	4041.7	4111.1
40°	2580.4	2548.0	2437.0	2265.9	2215.0	2349.2	2612.7	2867.1	2959.5
42.5°	1604.7	1590.8	1521.4	1392.0	1345.7	1424.3	1623.1	1817.4	1909.8
45°	957.2	938.7	901.7	850.9	841.6	874.0	975.7	1086.7	1137.6
47.5°	550.2	545.7	522.5	504.1	499.4	522.5	568.8	633.5	647.4
50°	300.5	296.0	291.4	291.4	291.4	305.2	328.4	346.8	356.1
52.5°	148.0	152.6	148.0	152.6	157.3	166.4	161.8	180.4	180.4
55°	74.0	69.4	78.6	87.9	87.9	87.9	87.9	87.9	83.3
57.5°	55.4	60.1	50.9	55.4	50.9	50.9	46.3	50.9	55.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	37.0	32.4	37.0	41.6	46.3	41.6	32.4	37.0	41.6
62.5°	18.4	18.4	18.4	27.7	41.6	32.4	27.7	23.1	23.1
65°	27.7	18.4	23.1	27.7	23.1	23.1	18.4	23.1	18.4
67.5°	13.9	23.1	13.9	9.3	13.9	18.4	13.9	9.3	9.3
70°	0.0	4.6	4.6	13.9	13.9	13.9	13.9	9.3	9.3
72.5°	4.6	4.6	4.6	9.3	4.6	9.3	4.6	4.6	9.3
75°	0.0	0.0	4.6	4.6	0.0	4.6	0.0	0.0	0.0
77.5°	4.6	0.0	4.6	4.6	0.0	0.0	0.0	4.6	0.0
80°	0.0	0.0	4.6	0.0	0.0	0.0	0.0	0.0	4.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)