

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 ER8B200927 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 ER8B200927 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: 16860.3 lumens
Efficiency: N/A
Efficacy: 75.5 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

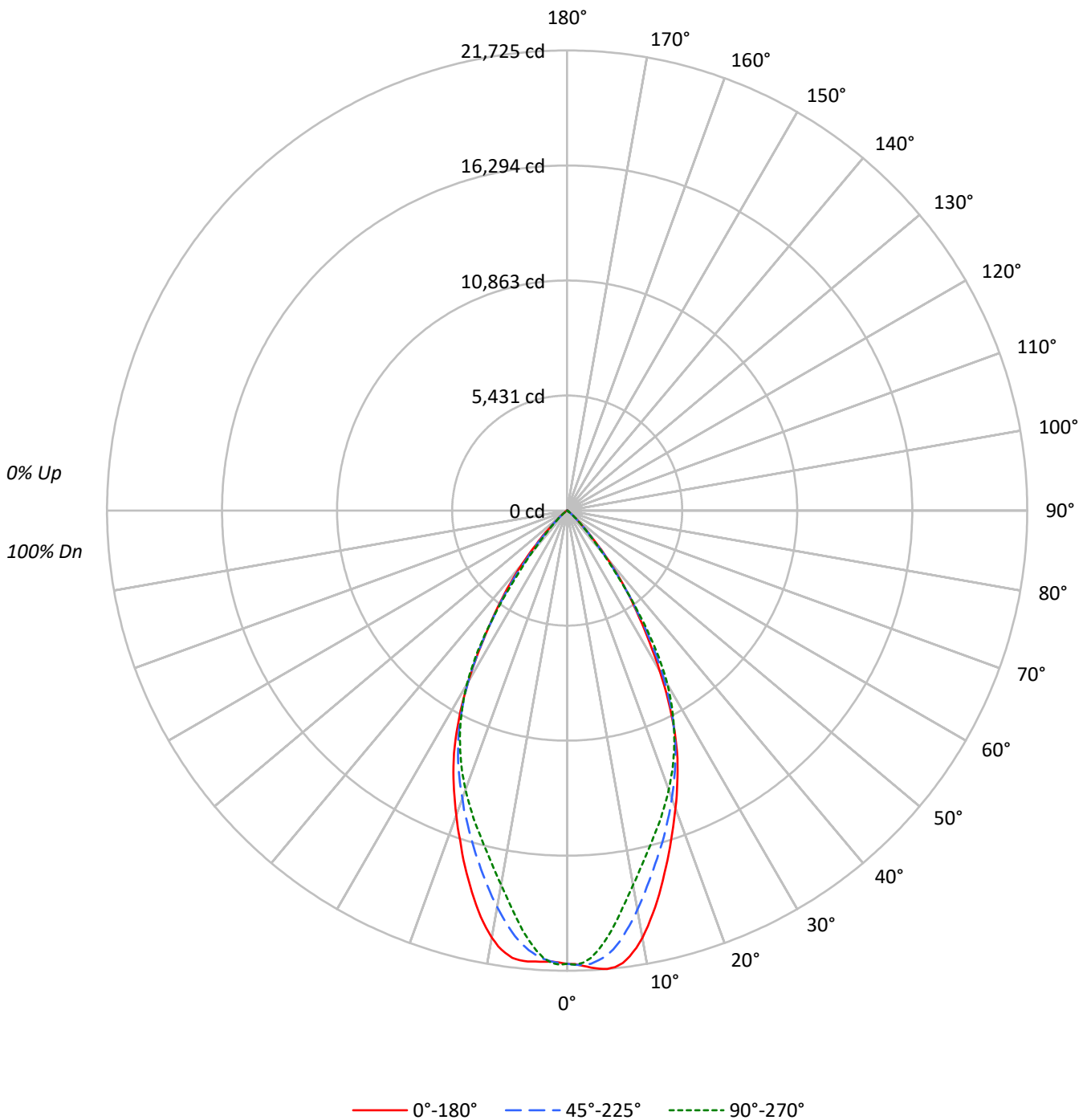
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1942.5	11.5
10°-20°	4698.1	27.9
20°-30°	5506.4	32.7
30°-40°	3622.9	21.5
40°-50°	945.4	5.6
50°-60°	116.3	0.7
60°-70°	24.1	0.1
70°-80°	4.5	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°	12147.0	72.0
0°-40°	15769.9	93.5
0°-60°	16831.6	99.8
0°-90°	16860.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16860.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	21397	21397	21397	21397	21397	
5°	21725	21106	20409	20830	21371	###
15°	17735	16731	15878	16731	18037	4944
25°	12184	12064	11976	12179	12631	5493
35°	5540	5665	5858	5915	6009	3469
45°	1077	1014	947	1098	1280	965
55°	83	88	99	99	94	110
65°	31	26	26	21	21	22
75°	0	5	0	0	0	3
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CATALOG NUMBER: LD8B200D010 ER8B200927 8LBM0WH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	21397.3	21397.3	21397.3	21397.3	21397.3	21397.3	21397.3	21397.3	21397.3
1°	21412.8	21444.2	21454.4	21485.8	21438.9	21407.7	21366.1	21334.8	21340.0
2°	21506.5	21522.1	21464.9	21444.2	21360.9	21334.8	21303.7	21298.4	21303.7
3°	21605.4	21574.1	21423.3	21282.9	21158.0	21142.4	21199.6	21282.9	21329.6
4°	21683.5	21600.2	21282.9	21022.6	20825.0	20809.5	21038.4	21251.6	21340.0
5°	21725.1	21574.1	21105.9	20669.0	20408.9	20507.6	20830.3	21210.0	21371.2
6°	21667.8	21444.2	20835.4	20252.8	19956.3	20086.3	20559.7	21111.2	21350.5
7°	21522.1	21236.1	20486.9	19800.2	19436.0	19638.9	20242.4	20944.7	21272.4
8°	21251.6	20908.2	20044.7	19274.7	18915.8	19144.6	19852.2	20705.4	21085.2
9°	20897.8	20518.1	19607.7	18796.0	18411.2	18681.6	19446.4	20388.0	20825.0
10°	20476.5	20070.7	19123.9	18296.7	17948.1	18203.1	19009.5	20018.6	20471.3
11°	19982.2	19592.1	18640.0	17828.6	17495.6	17745.3	18572.4	19576.5	20065.5
12°	19446.4	19087.4	18145.9	17375.9	17063.8	17303.1	18104.3	19118.7	19602.4
13°	18910.6	18551.6	17667.2	16938.9	16652.7	16881.6	17646.4	18619.3	19103.0
14°	18333.1	18005.4	17188.6	16522.6	16262.6	16481.0	17178.2	18114.5	18572.4
15°	17734.8	17474.6	16730.8	16122.0	15877.7	16085.6	16730.8	17594.3	18036.6
16°	17173.0	16933.6	16288.5	15726.7	15523.9	15690.3	16278.2	17074.2	17495.6
17°	16600.6	16382.2	15846.3	15336.6	15154.5	15315.8	15815.1	16548.8	16928.4
18°	16028.4	15846.3	15362.7	14925.6	14764.4	14910.0	15357.4	16018.1	16361.3
19°	15497.8	15331.3	14920.4	14551.0	14405.4	14535.3	14956.8	15508.2	15851.6
20°	14951.6	14816.2	14457.3	14155.6	14020.3	14140.0	14467.7	15003.7	15305.3
21°	14426.1	14306.5	13994.3	13739.4	13630.2	13729.0	14030.8	14514.6	14779.9
22°	13879.9	13812.3	13531.4	13318.1	13245.2	13307.6	13583.4	13999.6	14249.2
23°	13344.0	13281.6	13068.3	12891.5	12828.9	12891.5	13136.0	13510.5	13734.2
24°	12802.9	12735.4	12579.3	12464.8	12412.8	12464.8	12672.9	12990.3	13203.6
25°	12184.0	12173.5	12064.3	12001.8	11975.8	12033.0	12178.8	12454.4	12631.3
26°	11590.8	11559.6	11528.4	11518.0	11523.2	11554.4	11674.0	11882.1	12022.6
27°	10862.6	10909.4	10956.2	11018.6	11039.4	11065.5	11122.6	11273.4	11377.6
28°	10165.4	10253.8	10368.2	10493.1	10550.5	10550.5	10555.5	10638.8	10727.2
29°	9473.5	9567.1	9749.2	9936.4	10014.5	10004.1	9962.4	9998.9	10051.0
30°	8750.4	8870.1	9114.5	9359.1	9473.5	9431.9	9353.9	9317.5	9348.6
31°	8042.8	8162.6	8433.0	8698.3	8849.1	8802.4	8667.1	8641.1	8656.6
32°	7366.6	7486.2	7735.8	8016.8	8188.5	8126.1	7985.6	7944.0	7949.2
33°	6711.0	6804.7	7033.6	7293.7	7434.1	7418.5	7304.1	7252.1	7257.3
34°	6092.0	6170.1	6341.6	6539.4	6674.6	6669.3	6586.1	6591.4	6607.0
35°	5540.5	5582.1	5665.3	5774.6	5857.9	5904.6	5915.0	5956.7	6008.7
37.5°	4187.9	4203.4	4104.7	3995.3	3974.6	4110.0	4344.0	4546.9	4625.0
40°	2903.0	2866.5	2741.6	2549.1	2491.9	2642.8	2939.3	3225.5	3329.4
42.5°	1805.3	1789.6	1711.6	1566.0	1513.9	1602.3	1826.0	2044.6	2148.5
45°	1076.9	1056.0	1014.4	957.3	946.8	983.2	1097.7	1222.5	1279.8
47.5°	619.0	613.9	587.8	567.1	561.8	587.8	639.9	712.7	728.3
50°	338.1	333.0	327.8	327.8	327.8	343.3	369.4	390.2	400.6
52.5°	166.5	171.7	166.5	171.7	177.0	187.2	182.0	203.0	203.0
55°	83.2	78.1	88.4	98.9	98.9	98.9	98.9	98.9	93.7
57.5°	62.3	67.6	57.3	62.3	57.3	57.3	52.1	57.3	62.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	41.6	36.4	41.6	46.8	52.1	46.8	36.4	41.6	46.8
62.5°	20.7	20.7	20.7	31.2	46.8	36.4	31.2	26.0	26.0
65°	31.2	20.7	26.0	31.2	26.0	26.0	20.7	26.0	20.7
67.5°	15.6	26.0	15.6	10.5	15.6	20.7	15.6	10.5	10.5
70°	0.0	5.2	5.2	15.6	15.6	15.6	15.6	10.5	10.5
72.5°	5.2	5.2	5.2	10.5	5.2	10.5	5.2	5.2	10.5
75°	0.0	0.0	5.2	5.2	0.0	5.2	0.0	0.0	0.0
77.5°	5.2	0.0	5.2	5.2	0.0	0.0	0.0	5.2	0.0
80°	0.0	0.0	5.2	0.0	0.0	0.0	0.0	0.0	5.2
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)