

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: P250203

Luminaire Tested: **LD8B200D010 ER8B2009730 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250203
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 ER8B2009730 8LBM0WH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT
97 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15856.0 lumens
Efficiency: N/A
Efficacy: 71.0 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

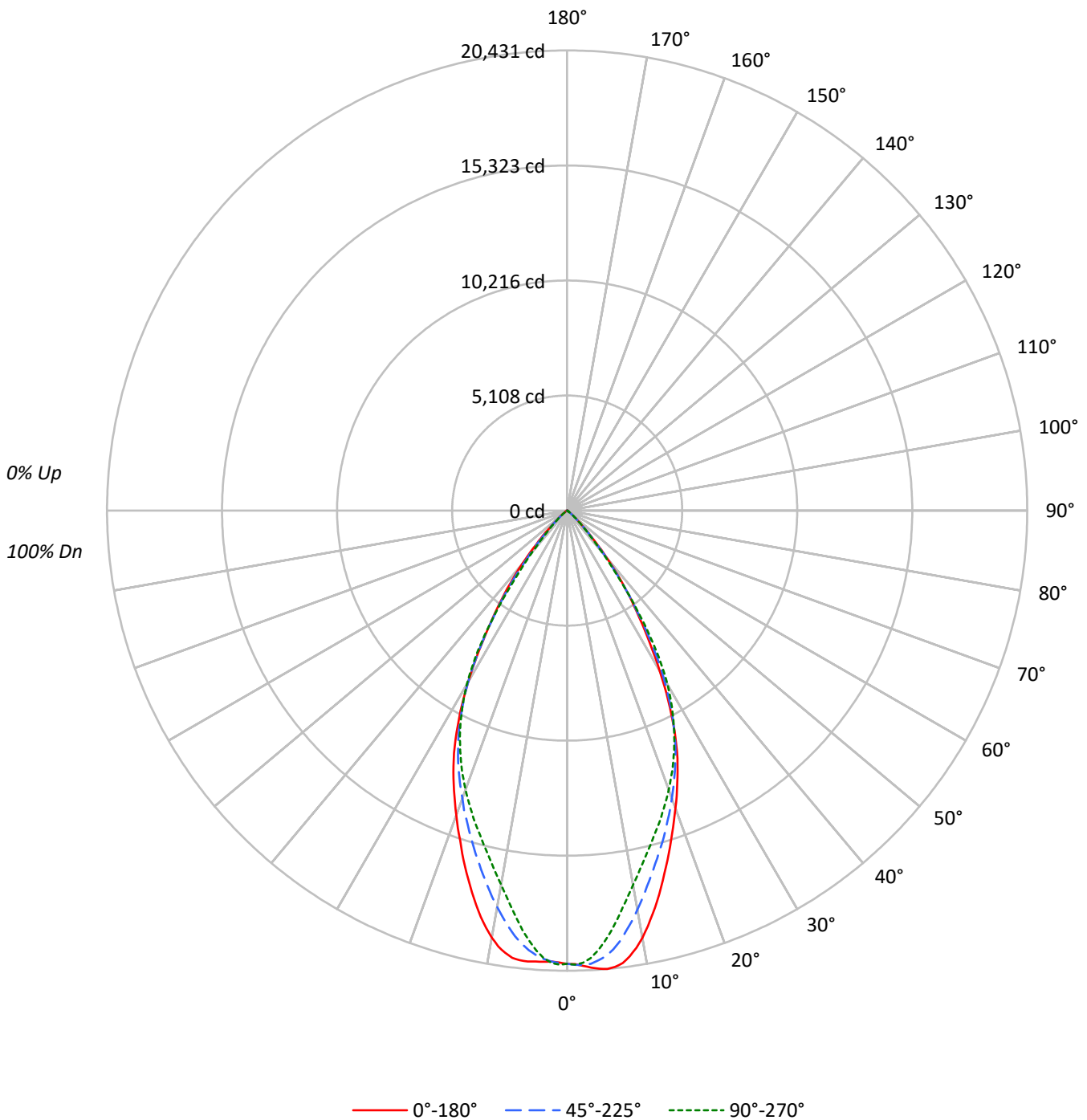
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1826.8	11.5
10°-20°	4418.2	27.9
20°-30°	5178.4	32.7
30°-40°	3407.1	21.5
40°-50°	889.1	5.6
50°-60°	109.4	0.7
60°-70°	22.7	0.1
70°-80°	4.2	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°	11423.4	72.0
0°-40°	14830.5	93.5
0°-60°	15829.0	99.8
0°-90°	15856.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15856.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	20123	20123	20123	20123	20123	
5°	20431	19849	19193	19589	20098	###
15°	16678	15734	14932	15734	16962	4649
25°	11458	11346	11262	11453	11879	5166
35°	5210	5328	5509	5563	5651	3262
45°	1013	954	890	1032	1204	908
55°	78	83	93	93	88	104
65°	29	24	24	20	20	20
75°	0	5	0	0	0	3
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°	20122.7	20122.7	20122.7	20122.7	20122.7	20122.7	20122.7	20122.7	20122.7
1°	20137.3	20166.7	20176.4	20205.9	20161.8	20132.5	20093.3	20063.9	20068.8
2°	20225.4	20240.1	20186.2	20166.7	20088.4	20063.9	20034.6	20029.7	20034.6
3°	20318.4	20289.0	20147.1	20015.1	19897.6	19882.9	19936.8	20015.1	20059.0
4°	20391.8	20313.5	20015.1	19770.4	19584.5	19569.9	19785.1	19985.6	20068.8
5°	20430.9	20289.0	19848.7	19437.7	19193.1	19286.0	19589.4	19946.5	20098.1
6°	20377.1	20166.7	19594.3	19046.4	18767.4	18889.8	19335.0	19853.6	20078.6
7°	20240.1	19971.0	19266.5	18620.7	18278.2	18469.0	19036.5	19697.0	20005.2
8°	19985.6	19662.8	18850.6	18126.5	17788.9	18004.2	18669.6	19471.9	19829.1
9°	19652.9	19295.8	18439.7	17676.4	17314.4	17568.8	18288.0	19173.5	19584.5
10°	19256.7	18875.1	17984.7	17206.8	16879.0	17118.7	17877.0	18826.1	19251.8
11°	18791.9	18425.0	17529.6	16766.5	16453.3	16688.2	17466.1	18410.3	18870.2
12°	18288.0	17950.4	17064.9	16340.8	16047.3	16272.3	17025.8	17979.7	18434.8
13°	17784.0	17446.4	16614.8	15929.8	15660.7	15876.0	16595.2	17510.1	17965.0
14°	17241.0	16932.8	16164.7	15538.4	15293.8	15499.2	16154.9	17035.5	17466.1
15°	16678.4	16433.7	15734.1	15161.7	14931.8	15127.4	15734.1	16546.2	16962.1
16°	16150.0	15924.9	15318.2	14789.8	14599.1	14755.6	15308.5	16057.1	16453.3
17°	15611.8	15406.3	14902.4	14422.9	14251.7	14403.4	14873.0	15562.9	15920.0
18°	15073.7	14902.4	14447.5	14036.5	13884.8	14021.8	14442.6	15063.8	15386.7
19°	14574.6	14418.0	14031.6	13684.2	13547.2	13669.5	14065.8	14584.4	14907.3
20°	14060.9	13933.7	13596.1	13312.4	13185.1	13297.6	13605.9	14109.9	14393.6
21°	13566.8	13454.2	13160.7	12920.9	12818.2	12911.2	13194.9	13650.0	13899.4
22°	13053.1	12989.5	12725.3	12524.7	12456.2	12514.9	12774.2	13165.6	13400.5
23°	12549.1	12490.4	12289.8	12123.5	12064.8	12123.5	12353.5	12705.7	12916.1
24°	12040.3	11976.8	11830.0	11722.3	11673.4	11722.3	11918.0	12216.4	12417.1
25°	11458.2	11448.4	11345.6	11286.9	11262.5	11316.2	11453.3	11712.6	11878.8
26°	10900.3	10871.0	10841.7	10831.9	10836.8	10866.1	10978.6	11174.3	11306.5
27°	10215.5	10259.5	10303.5	10362.2	10381.7	10406.3	10460.0	10601.9	10699.8
28°	9559.8	9643.0	9750.6	9868.1	9921.9	9921.9	9926.7	10005.0	10088.2
29°	8909.2	8997.2	9168.5	9344.6	9418.0	9408.1	9369.0	9403.2	9452.2
30°	8229.1	8341.6	8571.6	8801.6	8909.2	8870.0	8796.7	8762.4	8791.8
31°	7563.8	7676.3	7930.7	8180.2	8322.0	8278.1	8150.8	8126.4	8141.0
32°	6927.7	7040.3	7275.0	7539.2	7700.7	7642.1	7509.9	7470.8	7475.7
33°	6311.2	6399.3	6614.6	6859.3	6991.3	6976.6	6869.0	6820.1	6824.9
34°	5729.1	5802.5	5963.8	6149.9	6277.0	6272.1	6193.8	6198.7	6213.4
35°	5210.5	5249.6	5327.8	5430.6	5508.9	5552.9	5562.7	5601.8	5650.8
37.5°	3938.5	3953.1	3860.2	3757.3	3737.8	3865.1	4085.2	4276.0	4349.4
40°	2730.0	2695.8	2578.3	2397.3	2343.4	2485.4	2764.2	3033.3	3131.1
42.5°	1697.7	1683.0	1609.6	1472.7	1423.7	1506.9	1717.2	1922.8	2020.6
45°	1012.7	993.1	954.0	900.2	890.4	924.6	1032.3	1149.7	1203.6
47.5°	582.2	577.4	552.8	533.3	528.4	552.8	601.8	670.3	685.0
50°	318.0	313.2	308.3	308.3	308.3	322.9	347.4	366.9	376.7
52.5°	156.6	161.5	156.6	161.5	166.4	176.1	171.2	190.8	190.8
55°	78.3	73.4	83.2	93.0	93.0	93.0	93.0	93.0	88.1
57.5°	58.7	63.6	53.9	58.7	53.9	53.9	49.0	53.9	58.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	39.1	34.2	39.1	44.1	49.0	44.1	34.2	39.1	44.1
62.5°	19.5	19.5	19.5	29.3	44.1	34.2	29.3	24.4	24.4
65°	29.3	19.5	24.4	29.3	24.4	24.4	19.5	24.4	19.5
67.5°	14.7	24.4	14.7	9.8	14.7	19.5	14.7	9.8	9.8
70°	0.0	4.9	4.9	14.7	14.7	14.7	14.7	9.8	9.8
72.5°	4.9	4.9	4.9	9.8	4.9	9.8	4.9	4.9	9.8
75°	0.0	0.0	4.9	4.9	0.0	4.9	0.0	0.0	0.0
77.5°	4.9	0.0	4.9	4.9	0.0	0.0	0.0	4.9	0.0
80°	0.0	0.0	4.9	0.0	0.0	0.0	0.0	0.0	4.9
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)