

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: P248125

Luminaire Tested: **LD8B200D010 ER8B200930 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248125
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-72)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B200930 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18340.7 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

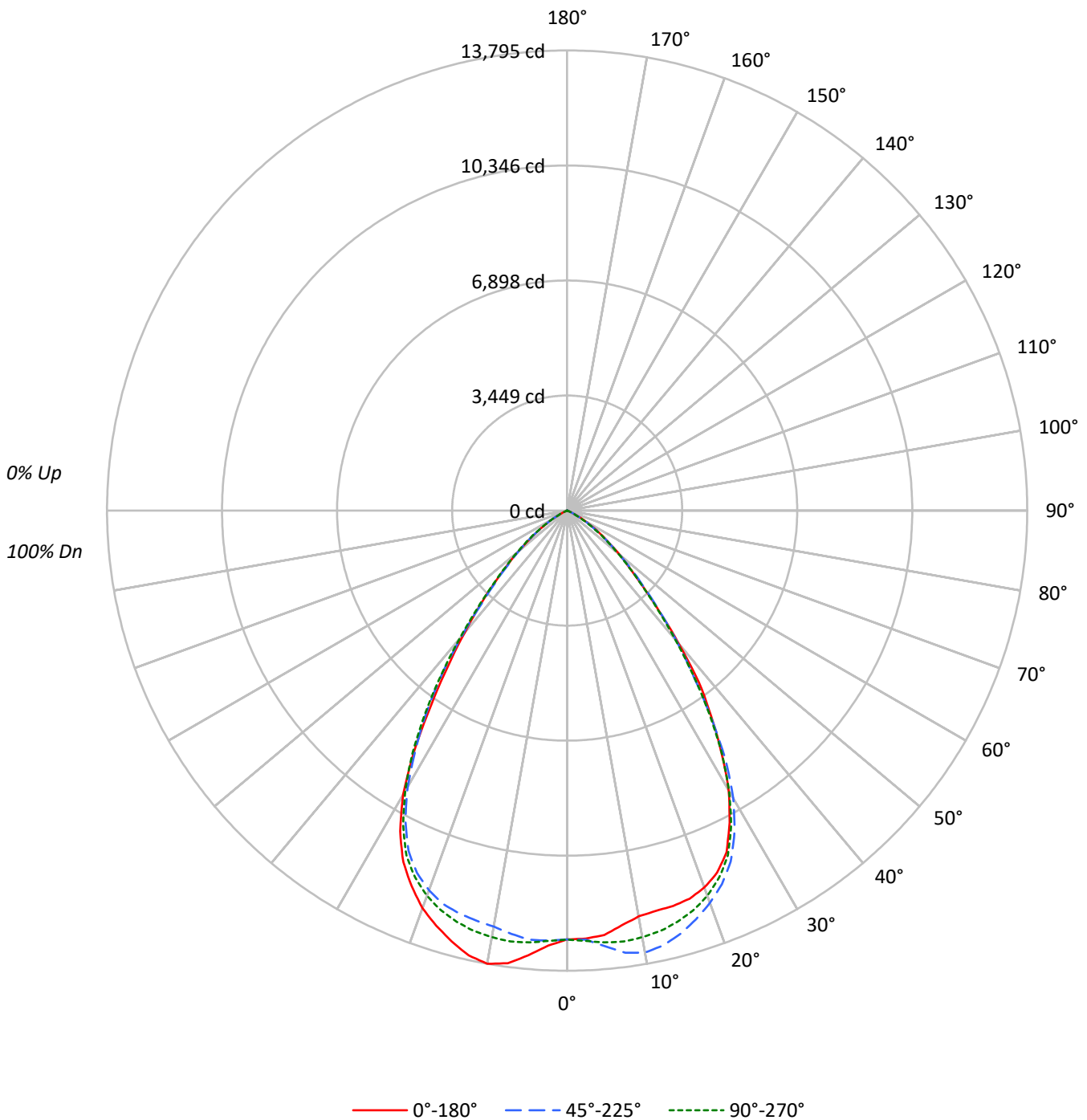
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	100	100			
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92	92	92	92			
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84	84	84	84			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76	76	76	76			
4	94	85	79	74	92	84	78	73	82	76	72	79	75	72	78	74	71	69	69	69	69			
5	88	78	72	67	86	77	71	66	76	70	66	74	69	65	72	68	65	63	63	63	63			
6	83	72	66	61	81	72	65	61	70	64	60	69	64	60	67	63	59	58	58	58	58			
7	78	67	60	56	76	67	60	55	65	59	55	64	59	55	63	58	54	53	53	53	53			
8	73	63	56	51	72	62	55	51	61	55	51	60	54	50	59	54	50	49	49	49	49			
9	69	58	52	47	68	58	51	47	57	51	47	56	51	47	55	50	47	45	45	45	45			
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42	42	42	42			

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°	1243.8	6.8
10°-20°	3606.9	19.7
20°-30°	5179.7	28.2
30°-40°	4578.6	25.0
40°-50°	2506.3	13.7
50°-60°	1031.8	5.6
60°-70°	184.9	1.0
70°-80°	8.0	0.0
80°-90°	0.6	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°	10030.4	54.7
0°-40°	14609.1	79.7
0°-60°	18147.2	98.9
0°-90°	18340.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18340.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12858	12858	12858	12858	12858	
5°	12771	13114	12994	12915	13382	###
15°	12269	13136	12766	12503	13372	3465
25°	11300	11606	11406	11255	11625	5112
35°	7527	7460	7416	7314	7095	4669
45°	3184	3277	3159	3024	3112	2562
55°	1221	1164	1111	1075	1051	1106
65°	196	153	141	113	116	228
75°	10	4	6	7	7	15
85°	2	2	0	7	0	1
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°	12857.6	12857.6	12857.6	12857.6	12857.6	12857.6	12857.6	12857.6	12857.6
2.5°	12841.2	12864.3	12875.2	12933.5	12913.7	12886.2	12901.6	12948.9	13051.0
5°	12770.9	12894.0	13113.7	13188.5	12994.0	12824.7	12914.8	13173.1	13381.8
7.5°	12538.9	12848.9	13368.7	13481.8	13031.3	12642.3	12799.5	13356.6	13686.3
10°	12353.2	12737.9	13452.2	13620.4	12986.2	12482.9	12666.4	13347.7	13795.0
12.5°	12290.6	12645.6	13346.7	13536.9	12910.4	12426.8	12588.4	13219.2	13656.6
15°	12268.7	12553.3	13135.7	13288.4	12766.4	12371.9	12502.7	13009.3	13372.0
17.5°	12200.5	12412.6	12846.7	12970.9	12568.7	12263.2	12364.2	12757.7	13048.9
20°	12024.6	12204.9	12517.0	12603.9	12286.2	12046.6	12111.5	12407.1	12684.0
22.5°	11749.9	11866.5	12119.1	12160.9	11909.3	11718.0	11758.7	11979.6	12181.8
25°	11300.5	11381.7	11605.9	11616.9	11406.0	11238.9	11255.4	11440.0	11624.7
27.5°	10544.4	10698.3	10863.1	10910.4	10645.5	10449.8	10500.4	10623.5	10840.0
30°	9686.1	9799.3	9960.9	9924.5	9711.3	9535.6	9556.4	9666.3	9827.9
32.5°	8615.8	8735.5	8817.9	8743.2	8635.5	8478.3	8431.2	8478.3	8522.3
35°	7526.7	7567.3	7459.7	7416.8	7415.6	7367.3	7314.5	7171.7	7094.8
37.5°	6487.1	6359.5	6166.2	6083.8	6178.3	6295.9	6137.6	5950.8	5854.1
40°	5200.2	5203.5	5082.6	4996.9	5032.1	4992.5	4923.3	4803.5	4774.9
42.5°	4065.0	4077.1	4115.5	4067.2	3982.6	3854.0	3815.5	3821.0	3905.7
45°	3183.6	3207.9	3277.0	3270.4	3159.4	3078.2	3024.3	3100.1	3112.2
47.5°	2532.0	2566.1	2594.6	2592.4	2506.7	2425.4	2401.2	2415.5	2445.1
50°	2047.3	2044.0	2022.1	1993.5	1958.3	1941.8	1914.3	1912.2	1912.2
52.5°	1577.0	1582.5	1538.6	1540.7	1524.2	1478.0	1466.0	1441.8	1441.8
55°	1220.9	1198.9	1163.8	1129.7	1111.0	1079.2	1074.8	1049.5	1050.6
57.5°	867.1	847.3	805.6	784.7	770.4	761.6	742.9	723.2	714.3
60°	599.0	582.5	559.4	538.5	519.8	515.4	497.8	478.0	473.6
62.5°	361.5	357.2	316.5	308.8	294.5	287.9	275.9	262.7	263.8
65°	195.6	167.0	152.8	143.9	140.7	123.1	113.2	111.0	116.5
67.5°	52.8	52.8	42.8	40.7	40.7	29.7	34.1	33.0	42.8
70°	46.2	33.0	28.6	23.1	26.3	15.4	28.6	23.1	22.0
72.5°	24.2	13.2	11.0	11.0	12.1	7.7	17.6	9.9	7.7
75°	9.9	6.6	4.4	2.2	5.5	5.5	6.6	2.2	6.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.2	3.3	2.2	0.0	0.0	0.0	6.6	0.0	0.0
87.5°	0.0	2.2	1.1	0.0	0.0	0.0	2.2	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)