

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: P248197

Luminaire Tested: **LD8B200D010 ER8B2009730 8LBW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248197
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-73)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B2009730 8LBW0GPH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 3000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14236.0 lumens
Efficiency: N/A
Efficacy: 63.8 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

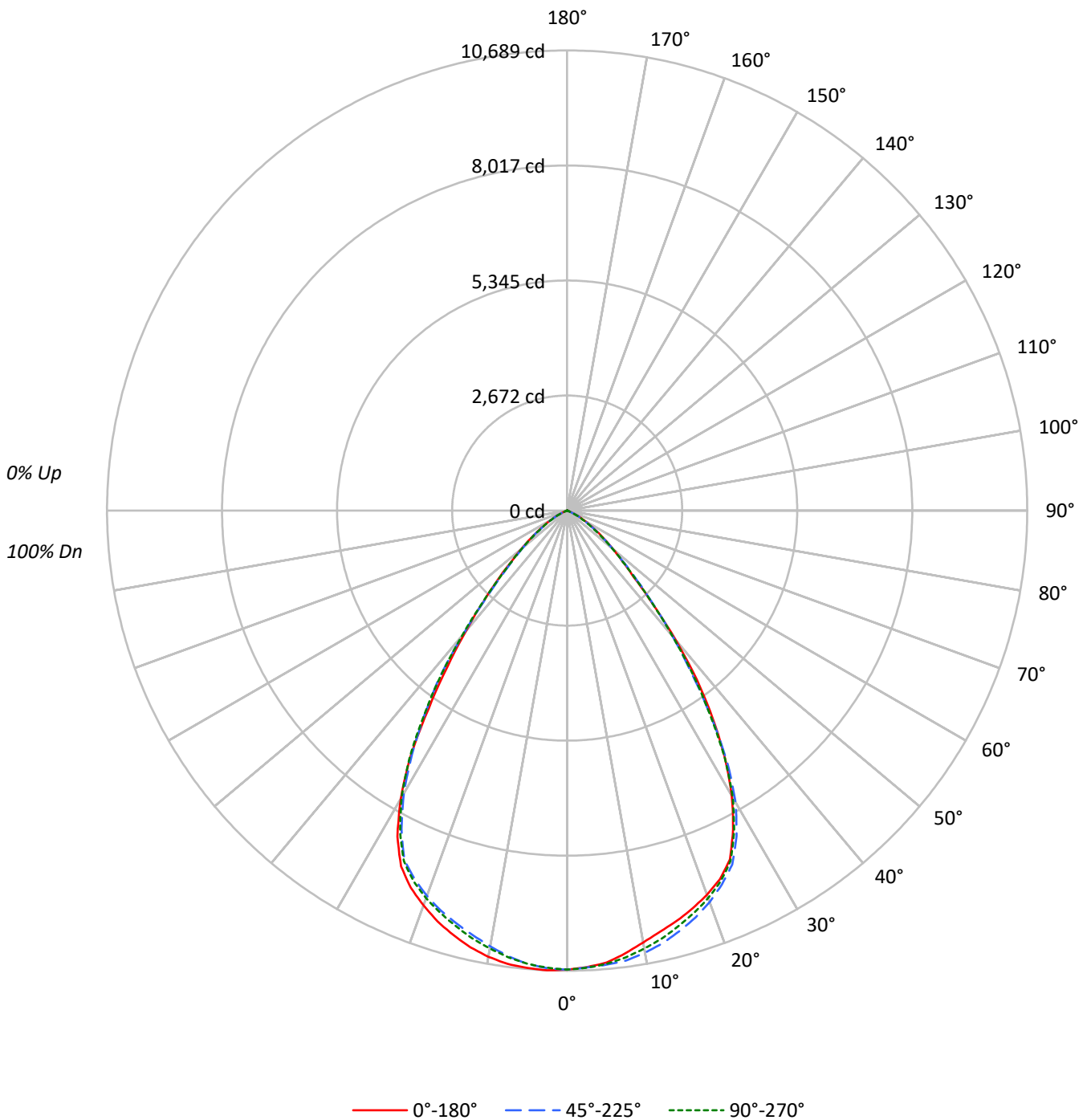
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84
3	100	92	87	82	98	91	86	82	88	84	80	86	82	79	84	80	78	76
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69
5	88	79	72	67	86	78	71	67	76	70	66	74	69	65	72	68	65	63
6	83	73	66	61	81	72	66	61	70	65	60	69	64	60	67	63	60	58
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49
9	70	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	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°	1002.6	7.0
10°-20°	2824.3	19.8
20°-30°	4072.7	28.6
30°-40°	3576.8	25.1
40°-50°	1808.6	12.7
50°-60°	740.3	5.2
60°-70°	194.6	1.4
70°-80°	13.7	0.1
80°-90°	2.5	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°	7899.5	55.5
0°-40°	11476.3	80.6
0°-60°	14025.2	98.5
0°-90°	14236.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14236.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10663	10663	10663	10663	10663	
5°	10540	10588	10569	10569	10666	994
15°	9862	10106	9994	9929	10209	2783
25°	8944	9072	8980	8948	9123	4041
35°	5897	5796	5778	5754	5608	3636
45°	2201	2304	2238	2181	2283	1816
55°	837	804	778	776	803	774
65°	211	187	168	166	180	215
75°	6	4	12	4	7	15
85°	2	2	2	1	2	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°	10662.6	10662.6	10662.6	10662.6	10662.6	10662.6	10662.6	10662.6	10662.6
2.5°	10613.5	10665.5	10619.4	10646.9	10628.2	10597.8	10640.0	10620.4	10689.0
5°	10540.0	10602.8	10588.0	10622.4	10569.4	10513.5	10569.4	10574.3	10665.5
7.5°	10372.4	10480.2	10542.0	10583.1	10466.5	10375.3	10442.0	10501.8	10619.4
10°	10185.1	10315.5	10427.3	10491.0	10329.2	10195.9	10275.3	10377.3	10525.3
12.5°	10012.6	10156.7	10289.0	10350.8	10180.2	10030.2	10105.7	10232.2	10391.0
15°	9861.6	9980.2	10105.7	10169.4	9993.9	9851.8	9929.2	10045.9	10208.6
17.5°	9689.0	9800.8	9911.6	9961.6	9798.8	9675.3	9745.9	9845.9	10007.7
20°	9495.9	9592.0	9676.3	9735.1	9579.2	9461.6	9525.3	9618.5	9758.6
22.5°	9269.4	9342.0	9396.9	9449.8	9323.4	9206.7	9261.6	9335.1	9483.2
25°	8944.0	9017.5	9072.4	9132.2	8980.2	8880.2	8947.9	8979.3	9123.4
27.5°	8347.9	8441.0	8523.4	8576.3	8402.8	8316.5	8334.2	8386.1	8539.1
30°	7649.9	7695.0	7820.4	7836.1	7689.1	7539.1	7587.1	7642.0	7732.2
32.5°	6820.5	6846.0	6918.5	6926.3	6816.5	6700.9	6701.8	6677.3	6768.5
35°	5897.0	5839.1	5796.0	5825.4	5778.3	5798.9	5753.8	5641.1	5607.7
37.5°	4943.0	4905.8	4716.6	4701.9	4811.7	4878.3	4834.2	4583.3	4565.6
40°	3910.7	3868.6	3798.0	3787.2	3801.9	3840.1	3758.8	3684.2	3661.7
42.5°	2926.4	2949.0	2971.5	2992.1	2949.9	2867.6	2863.7	2849.9	2902.9
45°	2200.9	2249.0	2303.9	2331.3	2238.2	2174.5	2181.3	2211.7	2283.3
47.5°	1740.2	1750.0	1770.6	1794.1	1739.2	1657.8	1679.4	1728.4	1759.8
50°	1382.3	1392.1	1386.2	1383.3	1356.8	1307.8	1338.2	1374.5	1385.3
52.5°	1090.2	1077.4	1066.6	1059.8	1043.1	1023.5	1029.4	1059.8	1076.5
55°	837.2	827.4	803.9	794.1	778.4	773.5	776.5	800.0	802.9
57.5°	629.4	615.7	592.1	573.5	574.5	566.7	570.6	587.2	596.1
60°	473.5	464.7	423.5	426.5	412.7	410.8	419.6	429.4	433.3
62.5°	327.4	330.4	299.0	295.1	288.2	289.2	295.1	302.9	303.9
65°	210.8	198.0	187.3	179.4	167.6	161.8	165.7	187.3	180.4
67.5°	82.4	87.3	70.6	82.4	76.5	64.7	74.5	83.3	79.4
70°	45.1	46.1	38.2	36.3	38.2	35.3	40.2	45.1	34.3
72.5°	28.4	28.4	20.6	20.6	26.5	17.6	20.6	32.4	25.5
75°	5.9	6.9	3.9	2.0	11.8	5.9	3.9	11.8	6.9
77.5°	0.0	6.9	0.0	0.0	0.0	0.0	2.0	2.0	2.0
80°	0.0	0.0	0.0	2.9	0.0	0.0	0.0	2.0	2.0
82.5°	0.0	2.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0
85°	2.0	7.8	2.0	0.0	2.0	2.0	1.0	5.9	2.0
87.5°	12.7	5.9	1.0	5.9	4.9	5.9	6.9	5.9	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)