

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: P247972

Luminaire Tested: **LD8B200D010 ER8B200940 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247972
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-92)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B200940 8LBS0H
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20895.0 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.22
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

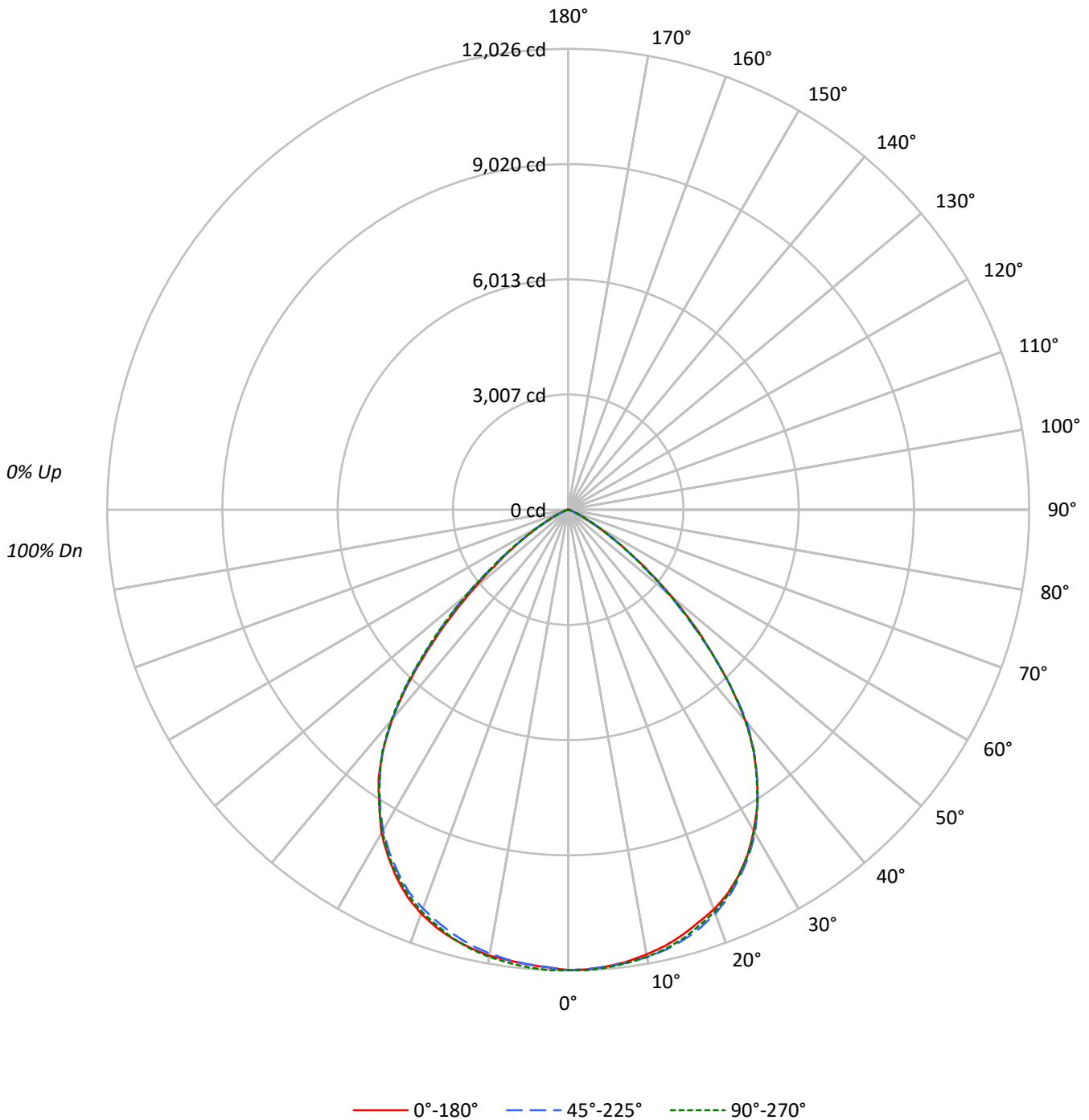
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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			
1	112	109	106	103	110	107	104	101	103	100	98	99	97	95	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73					73			
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48					48			
8	70	58	51	46	68	58	51	46	56	50	46	55	49	45	54	49	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40					40			
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	370489	370489	370489
5°	370217	371096	368858
10°	368931	370972	370155
15°	366945	369898	370163
20°	364276	366416	368050
25°	358094	358498	360513
30°	344531	345289	346852
35°	323461	322882	324756
40°	290010	289249	287196
45°	231630	231582	225738
50°	167411	165818	156262
55°	102598	101835	97185
60°	52705	54753	53951
65°	25684	26727	27158
70°	11008	11324	10792
75°	8614	8614	7482
80°	4635	4209	3782
85°	3786	2512	5449



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1137.5	5.4
10°-20°	3262.9	15.6
20°-30°	4847.4	23.2
30°-40°	5342.0	25.6
40°-50°	4068.8	19.5
50°-60°	1754.0	8.4
60°-70°	402.9	1.9
70°-80°	66.9	0.3
80°-90°	12.6	0.1
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°	9247.8	44.3
0°-40°	14589.8	69.8
0°-60°	20412.5	97.7
0°-90°	20895.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20895.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12015	12015	12015	12015	12015	
5°	11960	11959	11989	11908	11916	###
15°	11494	11622	11587	11484	11595	3242
25°	10525	10584	10537	10475	10596	4830
35°	8593	8597	8577	8570	8627	5335
45°	5312	5301	5310	5282	5176	4097
55°	1908	1907	1894	1906	1808	1779
65°	352	386	366	364	372	393
75°	72	72	72	74	63	67
85°	11	7	7	21	15	11
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°	12014.7	12014.7	12014.7	12014.7	12014.7	12014.7	12014.7	12014.7	12014.7
2.5°	12001.7	12002.8	11994.5	12012.3	12026.5	11980.3	11953.1	12014.7	11955.4
5°	11960.2	11968.5	11959.0	11981.5	11988.6	11950.7	11908.0	11974.4	11916.3
7.5°	11889.0	11905.6	11919.9	11945.9	11927.0	11879.6	11851.1	11929.3	11858.2
10°	11782.4	11823.9	11854.7	11893.8	11847.6	11796.6	11762.2	11868.9	11821.5
12.5°	11662.6	11710.1	11762.2	11809.6	11739.7	11665.0	11647.2	11761.0	11718.4
15°	11494.3	11538.2	11622.3	11667.4	11586.8	11501.4	11483.7	11628.3	11595.1
17.5°	11296.4	11373.4	11444.5	11480.1	11378.2	11304.7	11295.2	11444.5	11431.5
20°	11100.8	11142.3	11215.8	11263.2	11166.0	11078.3	11074.7	11228.8	11215.8
22.5°	10853.0	10889.8	10938.4	10982.3	10891.0	10817.5	10822.2	10949.1	10946.7
25°	10524.7	10549.6	10584.0	10632.6	10536.6	10484.4	10474.9	10610.1	10595.8
27.5°	10141.8	10158.4	10197.6	10239.0	10156.1	10109.8	10093.2	10228.4	10181.0
30°	9676.0	9713.9	9741.2	9759.0	9697.3	9668.9	9657.0	9763.7	9741.2
32.5°	9181.7	9194.7	9195.9	9239.8	9174.6	9134.3	9134.3	9219.6	9168.7
35°	8592.6	8590.2	8597.3	8644.7	8577.2	8591.4	8570.1	8637.6	8627.0
37.5°	7946.6	7957.2	7959.6	7997.5	7959.6	7969.1	7960.8	7971.5	7937.1
40°	7204.5	7250.8	7266.2	7259.1	7185.6	7160.7	7139.4	7178.5	7134.6
42.5°	6283.5	6304.9	6307.2	6312.0	6291.8	6288.3	6262.2	6278.8	6210.0
45°	5311.5	5321.0	5300.9	5297.3	5310.4	5330.5	5281.9	5244.0	5176.4
47.5°	4423.7	4390.5	4299.3	4332.4	4346.7	4397.6	4345.5	4243.5	4187.8
50°	3489.7	3455.3	3385.4	3400.8	3456.5	3533.5	3473.1	3332.0	3257.3
52.5°	2665.8	2626.7	2548.5	2562.7	2579.3	2637.4	2605.4	2509.4	2437.1
55°	1908.4	1881.1	1907.2	1885.9	1894.2	1949.9	1906.0	1826.6	1807.7
57.5°	1289.7	1305.1	1326.4	1330.0	1313.4	1296.8	1290.8	1260.0	1276.6
60°	854.6	866.5	902.1	912.7	887.8	852.3	859.4	859.4	874.8
62.5°	552.4	563.0	604.5	611.6	576.1	566.6	566.6	563.0	591.5
65°	352.0	373.4	386.4	367.5	366.3	353.2	363.9	363.9	372.2
67.5°	211.0	192.0	205.1	213.4	205.1	194.4	192.0	193.2	205.1
70°	122.1	117.3	125.6	120.9	125.6	109.1	122.1	116.2	119.7
72.5°	78.2	77.0	77.0	81.8	77.0	74.7	79.4	68.8	75.9
75°	72.3	72.3	72.3	62.8	72.3	69.9	73.5	55.7	62.8
77.5°	28.4	33.2	40.3	39.1	39.1	36.7	33.2	28.4	43.9
80°	26.1	23.7	32.0	37.9	23.7	28.4	32.0	20.2	21.3
82.5°	13.0	11.9	15.4	15.4	15.4	8.3	21.3	13.0	10.7
85°	10.7	4.7	7.1	7.1	7.1	9.5	21.3	5.9	15.4
87.5°	2.4	3.6	5.9	5.9	7.1	11.9	21.3	4.7	17.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)