

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: P247897

Luminaire Tested: **LD8B200D010 ER8B200935 8LBSOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247897
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-91)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B200935 8LBS0LI
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 3500 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20584.0 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.24
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

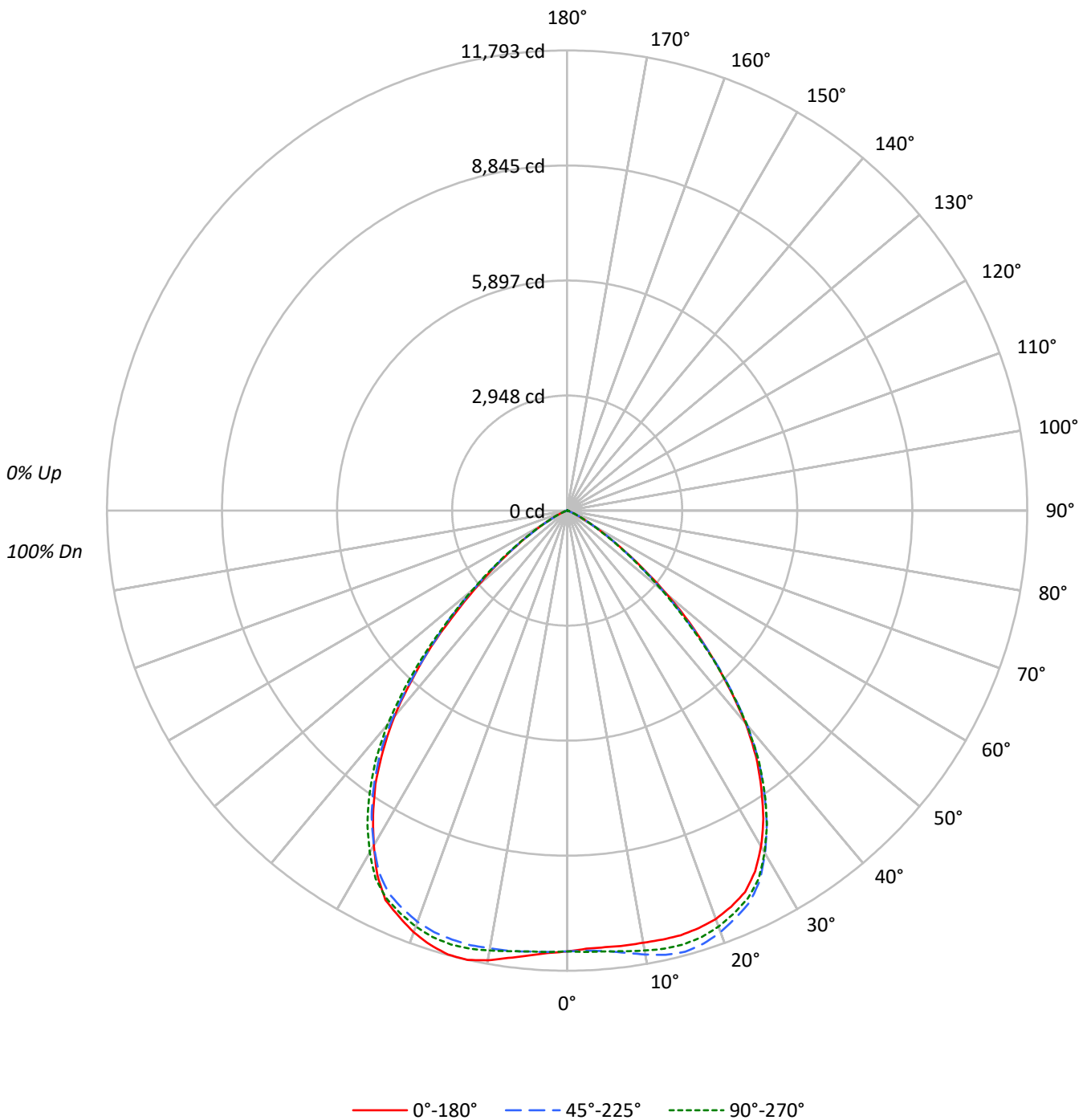
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91				91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82				82
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73				73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66				66
5	86	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59				59
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53				53
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48				48
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	50	46	44				44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40				40
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37				37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	348364	348364	348364
5°	347692	351029	354298
10°	352069	358501	366460
15°	359676	367466	376015
20°	365546	372287	377425
25°	366964	372948	374762
30°	353966	360148	352713
35°	326454	332180	322396
40°	286222	288371	277406
45°	224753	222921	214409
50°	159692	152232	141832
55°	95002	91583	85787
60°	47667	45706	45354
65°	20043	19292	19795
70°	7474	6446	6239
75°	2979	3241	3241
80°	3427	2415	799
85°	3609	6828	2795



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1086.4	5.3
10°-20°	3252.9	15.8
20°-30°	4999.4	24.3
30°-40°	5408.4	26.3
40°-50°	3898.3	18.9
50°-60°	1582.4	7.7
60°-70°	316.1	1.5
70°-80°	31.6	0.2
80°-90°	8.5	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°	9338.7	45.4
0°-40°	14747.1	71.6
0°-60°	20227.8	98.3
0°-90°	20584.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20584.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11297	11297	11297	11297	11297	
5°	11232	11328	11340	11345	11446	###
15°	11267	11704	11511	11382	11778	3183
25°	10785	11072	10961	10820	11015	4930
35°	8672	8799	8824	8644	8564	5385
45°	5154	5179	5112	4940	4917	3975
55°	1767	1713	1704	1646	1596	1658
65°	275	297	264	252	271	327
75°	25	31	27	26	27	33
85°	10	15	19	9	8	8
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°	11297.2	11297.2	11297.2	11297.2	11297.2	11297.2	11297.2	11297.2	11297.2
2.5°	11239.3	11310.8	11287.0	11256.4	11321.0	11308.6	11322.2	11327.9	11349.4
5°	11232.5	11313.1	11327.9	11294.9	11340.3	11318.8	11344.9	11393.7	11445.9
7.5°	11243.9	11365.3	11428.9	11409.6	11388.0	11314.2	11382.3	11494.7	11563.9
10°	11243.9	11405.0	11552.6	11551.4	11449.3	11312.0	11388.0	11582.1	11703.5
12.5°	11262.0	11459.5	11661.5	11675.1	11501.5	11327.9	11409.6	11638.8	11793.2
15°	11266.6	11460.6	11703.5	11710.3	11510.6	11306.3	11382.3	11628.6	11778.4
17.5°	11218.9	11406.2	11636.6	11660.4	11459.5	11251.8	11329.0	11549.2	11668.3
20°	11139.5	11307.4	11494.7	11534.4	11344.9	11147.4	11215.5	11405.0	11501.5
22.5°	10987.4	11140.6	11294.9	11324.4	11172.4	10999.9	11033.9	11181.4	11262.0
25°	10785.4	10937.4	11072.5	11088.4	10961.3	10806.9	10820.5	10932.9	11014.6
27.5°	10426.7	10570.8	10693.4	10712.7	10636.7	10472.1	10447.1	10500.5	10534.5
30°	9941.0	10039.7	10141.8	10203.1	10114.6	9978.4	9908.0	9936.4	9905.8
32.5°	9357.6	9458.6	9521.0	9540.3	9526.7	9407.5	9324.7	9253.2	9257.7
35°	8672.1	8764.0	8799.2	8834.4	8824.2	8731.1	8643.7	8576.8	8564.3
37.5°	7953.7	8015.0	8054.7	8081.9	8059.2	8000.2	7886.7	7770.9	7751.7
40°	7110.4	7203.5	7171.7	7185.3	7163.8	7088.8	6975.4	6909.5	6891.4
42.5°	6120.7	6202.5	6195.6	6200.2	6152.5	6050.4	5951.6	5915.3	5896.0
45°	5153.8	5193.5	5178.7	5131.1	5111.8	5048.2	4940.4	4871.2	4916.6
47.5°	4243.5	4229.9	4131.2	4092.6	4064.2	4073.3	4049.5	3928.0	3862.2
50°	3328.8	3293.6	3199.4	3141.5	3173.3	3198.3	3109.7	3037.1	2956.5
52.5°	2468.5	2475.3	2385.6	2322.1	2351.6	2356.1	2303.9	2263.1	2239.2
55°	1767.1	1767.1	1712.6	1692.2	1703.5	1682.0	1645.7	1632.0	1595.7
57.5°	1201.9	1209.8	1206.4	1182.6	1129.3	1110.0	1089.5	1110.0	1122.5
60°	772.9	792.2	788.8	786.5	741.1	695.7	715.0	733.2	735.4
62.5°	475.5	484.6	500.5	486.9	464.2	427.9	423.3	450.6	475.5
65°	274.7	284.9	297.4	288.3	264.4	258.8	252.0	266.7	271.3
67.5°	156.6	152.1	153.2	146.4	139.6	131.7	132.8	139.6	149.8
70°	82.9	71.5	72.6	65.8	71.5	63.6	61.3	67.0	69.2
72.5°	42.0	40.9	46.5	46.5	49.9	44.3	44.3	42.0	47.7
75°	25.0	28.4	30.6	34.0	27.2	26.1	26.1	26.1	27.2
77.5°	6.8	3.4	4.5	14.8	5.7	11.3	5.7	4.5	10.2
80°	19.3	11.3	6.8	12.5	13.6	6.8	17.0	15.9	4.5
82.5°	6.8	0.0	12.5	13.6	11.3	11.3	13.6	13.6	12.5
85°	10.2	6.8	14.8	17.0	19.3	11.3	9.1	5.7	7.9
87.5°	4.5	0.0	6.8	5.7	3.4	1.1	3.4	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)