

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: P248062

Luminaire Tested: **LD8B200D010 ER8B200835 8LBSOWMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248062  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-93)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B200D010 ER8B200835 8LBS0WMH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3500 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23044.0 lumens  
Efficiency: N/A  
Efficacy: 103.2 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.22  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

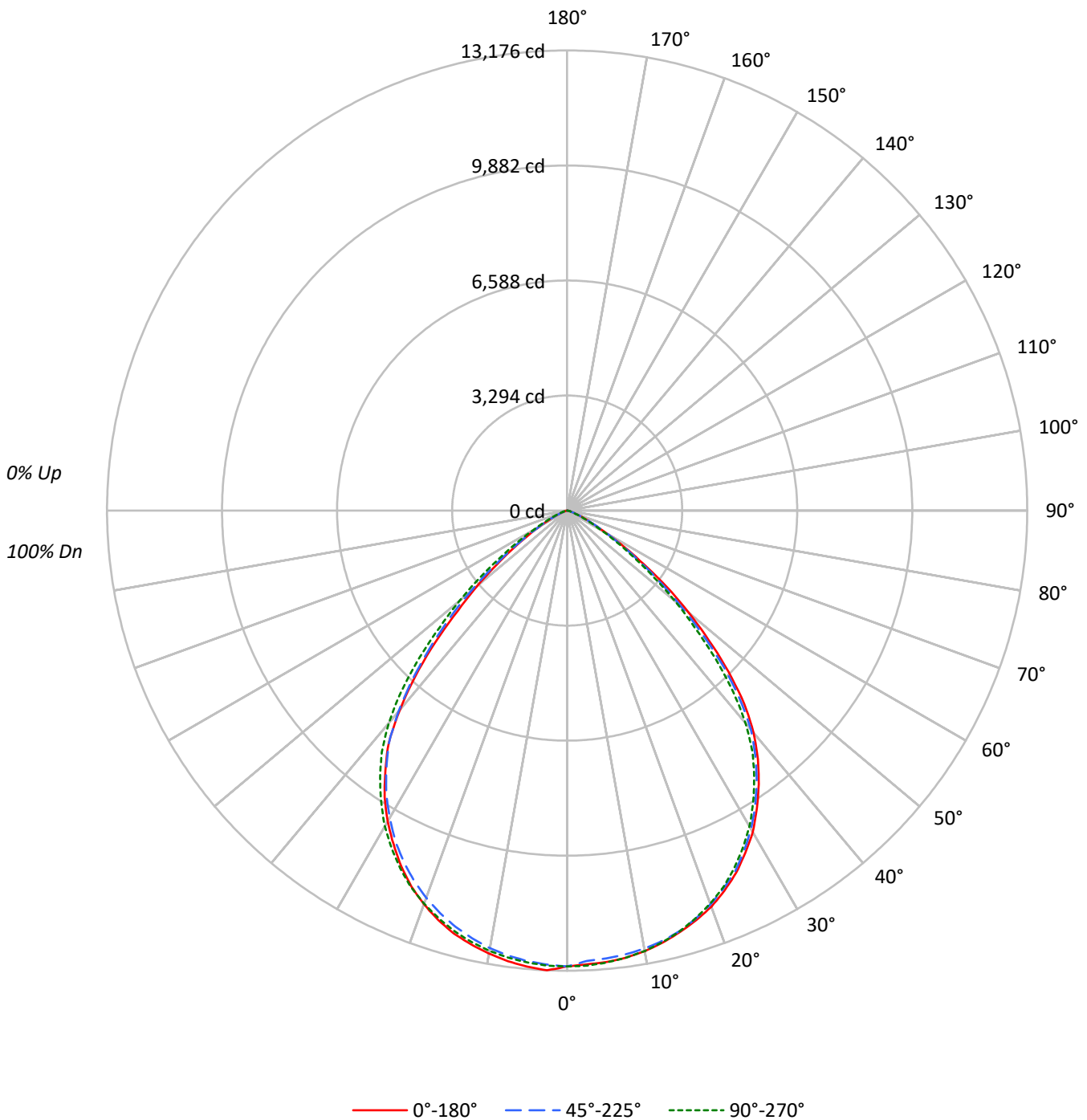
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	106	104	101	102	100	98	99	97	95	95	94	92	90					90			
2	105	99	93	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	97	89	83	78	95	88	82	77	85	80	76	83	78	75	80	77	74	72					72			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64					64			
5	85	74	67	61	83	73	66	61	71	65	61	69	64	60	68	63	59	58					58			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52					52			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47					47			
8	69	57	50	45	68	57	50	45	56	49	45	54	49	45	53	48	44	43					43			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39					39			
10	61	49	42	38	60	49	42	38	48	42	38	47	41	37	46	41	37	36					36			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	402469	402469	402469
5°	401660	402072	405657
10°	401094	400844	403305
15°	398780	398058	400226
20°	396114	392970	393580
25°	389423	384758	382448
30°	378489	371805	365930
35°	360165	351499	341730
40°	334454	320095	300331
45°	285082	262392	232964
50°	217077	193388	161337
55°	143097	124710	100453
60°	80353	70671	55487
65°	42145	37679	26800
70°	20160	17761	11162
75°	11414	12367	7768
80°	8737	8506	4493
85°	5166	4246	1875



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1232.6	5.3
10°-20°	3510.7	15.2
20°-30°	5186.5	22.5
30°-40°	5779.8	25.1
40°-50°	4564.5	19.8
50°-60°	2107.9	9.1
60°-70°	541.5	2.3
70°-80°	104.3	0.5
80°-90°	16.3	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°	9929.8	43.1
0°-40°	15709.5	68.2
0°-60°	22381.9	97.1
0°-90°	23044.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23044.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	13052	13052	13052	13052	13052	
5°	12976	12872	12989	12949	13105	###
15°	12492	12462	12469	12338	12537	3525
25°	11446	11392	11308	11082	11240	5260
35°	9568	9461	9337	9026	9078	5958
45°	6537	6347	6017	5536	5342	4989
55°	2662	2509	2320	1986	1868	2467
65°	578	586	516	395	367	634
75°	96	101	104	78	65	115
85°	15	15	12	7	5	20
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°	13051.8	13051.8	13051.8	13051.8	13051.8	13051.8	13051.8	13051.8	13051.8
2.5°	13002.6	13063.8	12908.1	13034.5	13039.9	12950.7	13011.9	13085.1	13175.6
5°	12976.0	13038.5	12872.2	12989.3	12989.3	12892.1	12949.4	13013.2	13105.1
7.5°	12913.4	12981.3	12817.6	12926.7	12909.4	12803.0	12853.5	12916.1	13014.6
10°	12809.6	12893.5	12733.8	12837.6	12801.6	12679.2	12723.1	12788.3	12880.2
12.5°	12667.2	12767.0	12618.0	12708.5	12651.2	12511.5	12547.4	12631.3	12721.8
15°	12491.5	12594.0	12462.3	12540.8	12468.9	12313.2	12338.5	12423.7	12536.8
17.5°	12295.9	12395.7	12248.0	12333.2	12237.3	12076.3	12085.6	12184.1	12286.6
20°	12071.0	12153.5	12001.8	12083.0	11975.2	11798.2	11799.5	11887.3	11993.8
22.5°	11775.5	11862.0	11705.0	11772.9	11674.4	11485.4	11462.8	11548.0	11650.4
25°	11445.5	11536.0	11392.2	11416.2	11308.4	11112.8	11082.1	11144.7	11240.5
27.5°	11050.2	11139.4	10977.0	11007.6	10889.2	10701.5	10660.3	10693.5	10769.4
30°	10629.7	10685.6	10531.2	10556.5	10442.0	10219.7	10157.2	10202.4	10277.0
32.5°	10111.9	10151.9	10020.1	10033.4	9909.7	9718.0	9635.5	9648.8	9724.7
35°	9567.6	9588.9	9461.2	9463.8	9337.4	9143.1	9026.0	9019.3	9077.9
37.5°	8967.4	8982.0	8852.9	8846.3	8715.9	8505.6	8383.1	8361.9	8397.8
40°	8308.6	8328.6	8194.2	8151.6	7951.9	7712.4	7512.8	7475.5	7460.9
42.5°	7510.1	7455.5	7314.5	7242.6	7041.6	6734.2	6549.2	6493.3	6445.4
45°	6537.2	6493.3	6346.9	6184.6	6016.9	5785.3	5536.4	5383.4	5342.1
47.5°	5516.5	5464.5	5254.3	5111.9	4946.8	4840.4	4572.9	4337.3	4234.8
50°	4525.0	4467.7	4233.5	4128.4	4031.2	3872.8	3613.3	3401.7	3363.1
52.5°	3608.0	3521.5	3320.5	3211.4	3124.9	2949.2	2715.0	2592.5	2527.3
55°	2661.7	2648.4	2508.7	2430.2	2319.7	2180.0	1985.7	1893.8	1868.5
57.5°	1939.1	1889.8	1836.6	1770.1	1674.2	1498.6	1378.8	1309.6	1304.3
60°	1302.9	1318.9	1318.9	1245.7	1145.9	1031.4	935.6	898.3	899.7
62.5°	874.4	885.0	882.4	850.4	773.2	680.1	617.5	590.9	592.2
65°	577.6	574.9	585.6	563.0	516.4	451.2	395.3	380.6	367.3
67.5°	367.3	371.3	367.3	355.3	327.4	280.8	243.5	220.9	214.3
70°	223.6	218.3	219.6	216.9	197.0	174.3	147.7	129.1	123.8
72.5°	134.4	138.4	139.7	143.7	141.1	125.1	106.5	93.2	90.5
75°	95.8	97.2	101.1	105.1	103.8	93.2	78.5	69.2	65.2
77.5°	71.9	71.9	74.5	79.9	75.9	66.5	55.9	47.9	45.2
80°	49.2	50.6	51.9	51.9	47.9	42.6	33.3	27.9	25.3
82.5°	29.3	30.6	29.3	29.3	26.6	21.3	16.0	14.6	13.3
85°	14.6	14.6	14.6	14.6	12.0	9.3	6.7	5.3	5.3
87.5°	6.7	6.7	6.7	5.3	4.0	2.7	2.7	1.3	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)