

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: P250136

Luminaire Tested: **LSR8B100D010 EC8B100835 8LBM0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250136  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13942)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B100D010 EC8B100835 8LBM0WH  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10910.0 lumens  
Efficiency: N/A  
Efficacy: 102.6 lumens/watt  
Spacing Criteria (0/90/45): 0.84 / 0.8 / 0.85  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

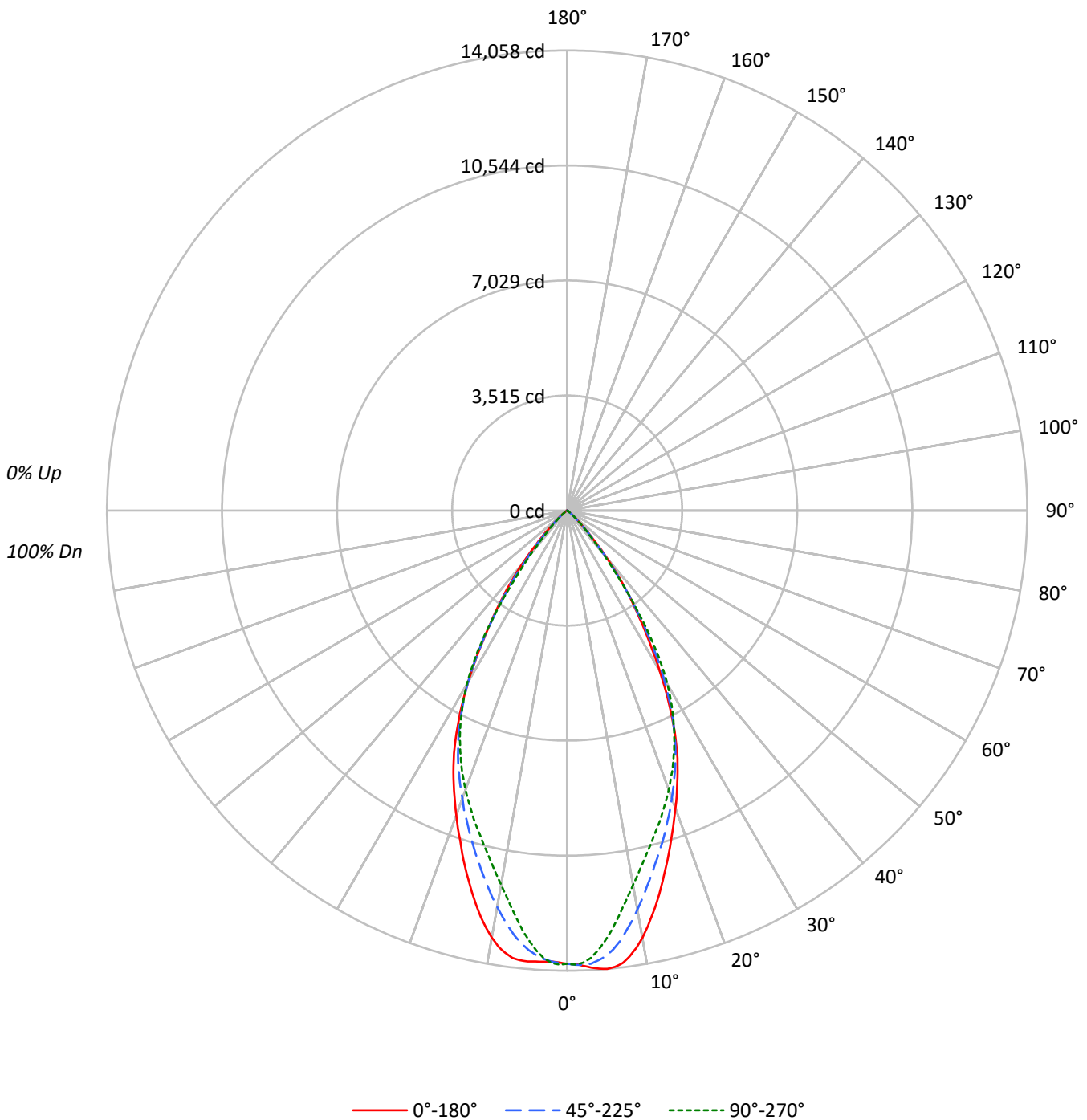
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71
6	88	80	74	69	87	79	73	69	77	72	69	76	72	68	75	71	68	66
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	64	59	56	55
10	73	63	57	54	72	63	57	54	62	57	53	61	56	53	60	56	53	52

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

	0°	90°	180°
0°	426953	426953	426953
5°	435150	408786	428061
10°	414881	363655	414775
15°	366358	327991	372589
20°	317485	297710	324996
25°	268246	263663	278093
30°	201612	218273	215396
35°	134962	142690	146364
40°	75613	64909	86723
45°	30387	26719	36113
50°	10496	10175	12435
55°	2898	3441	3258
60°	1659	2078	1869
65°	1474	1226	978
70°	0	911	613
75°	0	0	0
80°	0	0	604
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1256.9	11.5
10°-20°	3040.1	27.9
20°-30°	3563.1	32.7
30°-40°	2344.3	21.5
40°-50°	611.8	5.6
50°-60°	75.2	0.7
60°-70°	15.6	0.1
70°-80°	2.9	0.0
80°-90°	0.1	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°	7860.1	72.0
0°-40°	10204.4	93.5
0°-60°	10891.4	99.8
0°-90°	10910.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10910.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	13846	13846	13846	13846	13846	
5°	14058	13657	13206	13479	13829	###
15°	11476	10826	10274	10826	11671	3199
25°	7884	7807	7749	7881	8173	3554
35°	3585	3666	3790	3828	3888	2245
45°	697	656	613	710	828	625
55°	54	57	64	64	61	71
65°	20	17	17	13	13	14
75°	0	3	0	0	0	2
85°	0	0	0	0	0	0
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°	13845.8	13845.8	13845.8	13845.8	13845.8	13845.8	13845.8	13845.8	13845.8
1°	13855.8	13876.1	13882.7	13903.0	13872.7	13852.5	13825.6	13805.3	13808.7
2°	13916.4	13926.6	13889.5	13876.1	13822.2	13805.3	13785.1	13781.8	13785.1
3°	13980.4	13960.2	13862.6	13771.7	13690.9	13680.8	13717.8	13771.7	13801.9
4°	14030.9	13977.1	13771.7	13603.4	13475.4	13465.4	13613.5	13751.5	13808.7
5°	14057.9	13960.2	13657.2	13374.5	13206.2	13270.1	13478.8	13724.5	13828.9
6°	14020.8	13876.1	13482.2	13105.2	12913.3	12997.4	13303.8	13660.6	13815.5
7°	13926.6	13741.4	13256.7	12812.3	12576.6	12707.9	13098.4	13552.9	13765.0
8°	13751.5	13529.3	12970.5	12472.3	12240.0	12388.1	12846.0	13398.0	13643.8
9°	13522.6	13276.8	12687.7	12162.6	11913.5	12088.5	12583.4	13192.7	13475.4
10°	13249.9	12987.3	12374.7	11839.4	11613.9	11778.8	12300.6	12953.6	13246.5
11°	12930.1	12677.6	12061.6	11536.5	11321.0	11482.6	12017.8	12667.6	12983.9
12°	12583.4	12351.1	11741.8	11243.6	11041.6	11196.5	11714.9	12371.3	12684.4
13°	12236.6	12004.3	11432.1	10960.8	10775.6	10923.7	11418.6	12048.1	12361.2
14°	11863.0	11650.9	11122.4	10691.5	10523.2	10664.5	11115.7	11721.6	12017.8
15°	11475.9	11307.5	10826.1	10432.2	10274.1	10408.7	10826.1	11384.9	11671.1
16°	11112.3	10957.4	10540.0	10176.4	10045.2	10152.8	10533.3	11048.4	11321.0
17°	10741.9	10600.6	10253.8	9923.9	9806.2	9910.5	10233.7	10708.3	10954.0
18°	10371.7	10253.8	9940.8	9658.1	9553.7	9647.9	9937.5	10364.9	10587.1
19°	10028.3	9920.6	9654.7	9415.6	9321.4	9405.5	9678.2	10035.1	10257.2
20°	9674.9	9587.3	9355.0	9159.8	9072.3	9149.7	9361.8	9708.5	9903.8
21°	9334.8	9257.4	9055.4	8890.5	8819.8	8883.8	9079.0	9392.1	9563.7
22°	8981.4	8937.7	8755.9	8617.8	8570.7	8611.1	8789.5	9058.8	9220.4
23°	8634.6	8594.3	8456.2	8341.8	8301.4	8341.8	8500.0	8742.4	8887.2
24°	8284.6	8240.8	8139.8	8065.7	8032.1	8065.7	8200.4	8405.7	8543.8
25°	7884.0	7877.2	7806.6	7766.1	7749.3	7786.3	7880.6	8059.0	8173.4
26°	7500.2	7480.0	7459.8	7453.0	7456.4	7476.6	7554.0	7688.7	7779.6
27°	7028.9	7059.2	7089.5	7129.9	7143.3	7160.2	7197.2	7294.8	7362.2
28°	6577.8	6635.0	6709.1	6789.9	6827.0	6827.0	6830.3	6884.1	6941.4
29°	6130.1	6190.7	6308.5	6429.7	6480.2	6473.4	6446.5	6470.1	6503.7
30°	5662.2	5739.6	5897.8	6056.1	6130.1	6103.2	6052.7	6029.1	6049.3
31°	5204.4	5281.8	5456.8	5628.5	5726.1	5695.9	5608.3	5591.5	5601.6
32°	4766.8	4844.2	5005.7	5187.5	5298.6	5258.3	5167.3	5140.4	5143.8
33°	4342.6	4403.2	4551.3	4719.6	4810.5	4800.4	4726.3	4692.7	4696.0
34°	3942.0	3992.5	4103.5	4231.5	4319.0	4315.6	4261.8	4265.1	4275.3
35°	3585.2	3612.1	3665.9	3736.7	3790.5	3820.8	3827.5	3854.4	3888.1
37.5°	2709.9	2720.0	2656.1	2585.3	2571.9	2659.4	2810.9	2942.2	2992.7
40°	1878.4	1854.9	1774.1	1649.5	1612.5	1710.1	1902.0	2087.1	2154.4
42.5°	1168.2	1158.0	1107.5	1013.3	979.6	1036.9	1181.6	1323.0	1390.3
45°	696.8	683.3	656.4	619.4	612.7	636.2	710.3	791.1	828.1
47.5°	400.6	397.3	380.4	367.0	363.6	380.4	414.1	461.2	471.3
50°	218.8	215.5	212.1	212.1	212.1	222.1	239.0	252.5	259.2
52.5°	107.7	111.1	107.7	111.1	114.5	121.2	117.8	131.3	131.3
55°	53.9	50.5	57.2	64.0	64.0	64.0	64.0	64.0	60.6
57.5°	40.4	43.7	37.1	40.4	37.1	37.1	33.7	37.1	40.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	26.9	23.6	26.9	30.3	33.7	30.3	23.6	26.9	30.3
62.5°	13.4	13.4	13.4	20.2	30.3	23.6	20.2	16.8	16.8
65°	20.2	13.4	16.8	20.2	16.8	16.8	13.4	16.8	13.4
67.5°	10.1	16.8	10.1	6.8	10.1	13.4	10.1	6.8	6.8
70°	0.0	3.4	3.4	10.1	10.1	10.1	10.1	6.8	6.8
72.5°	3.4	3.4	3.4	6.8	3.4	6.8	3.4	3.4	6.8
75°	0.0	0.0	3.4	3.4	0.0	3.4	0.0	0.0	0.0
77.5°	3.4	0.0	3.4	3.4	0.0	0.0	0.0	3.4	0.0
80°	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	3.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)