

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: P247496

Luminaire Tested: **LSR8B100D010 EC8B100850 8LBW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247496  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-61)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B100D010 EC8B100850 8LBW0GPH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 5000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9992.0 lumens  
Efficiency: N/A  
Efficacy: 94.0 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.13 / 1.05  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

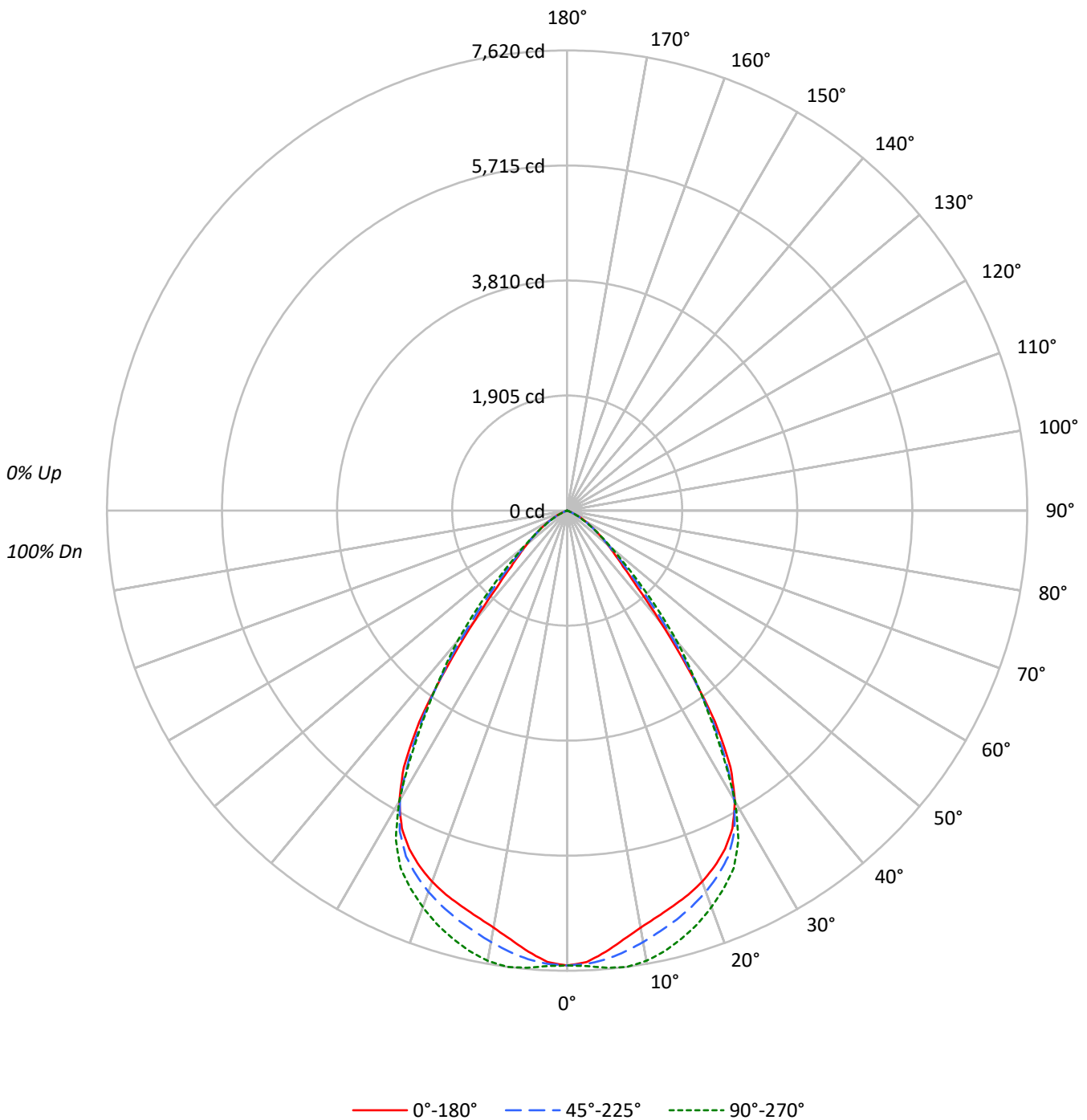
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	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	88	85					84				
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	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	72	67	76	70	66	74	69	66	72	68	65					63				
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60					58				
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55					53				
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51					49				
9	70	59	52	48	68	58	52	48	57	52	47	56	51	47	55	51	47					46				
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44					42				

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

	0°	45°	90°
0°	232281	232281	232281
5°	227017	230846	235245
10°	219503	227169	237060
15°	216398	223794	234173
20°	214579	220453	229307
25°	210436	214913	222123
30°	197820	197072	198009
35°	160733	155331	152956
40°	95422	105171	113915
45°	57111	64289	73010
50°	41612	42686	45843
55°	30144	29085	29719
60°	20457	18915	18181
65°	10273	9507	9026
70°	2849	2488	2254
75°	1096	786	786
80°	462	462	231
85°	460	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	706.3	7.1
10°-20°	1983.4	19.8
20°-30°	2882.7	28.9
30°-40°	2549.3	25.5
40°-50°	1212.7	12.1
50°-60°	505.1	5.1
60°-70°	141.1	1.4
70°-80°	10.6	0.1
80°-90°	0.8	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°	5572.3	55.8
0°-40°	8121.6	81.3
0°-60°	9839.4	98.5
0°-90°	9992.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9992.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7533	7533	7533	7533	7533	
5°	7334	7371	7458	7556	7600	690
15°	6778	6840	7010	7223	7335	1915
25°	6185	6212	6316	6456	6528	2827
35°	4270	4209	4126	4063	4063	2556
45°	1310	1356	1474	1611	1674	1090
55°	561	554	541	541	553	510
65°	141	138	130	125	124	153
75°	9	8	7	7	7	12
85°	1	1	0	0	0	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7532.7	7532.7	7532.7	7532.7	7532.7
2.5°	7482.7	7489.3	7514.3	7538.0	7548.5
5°	7334.0	7370.8	7457.7	7556.4	7599.8
7.5°	7164.2	7219.4	7365.5	7539.3	7619.6
10°	7010.2	7079.9	7255.0	7469.5	7570.9
12.5°	6889.1	6953.6	7132.6	7356.3	7470.8
15°	6778.5	6840.4	7010.2	7223.4	7335.3
17.5°	6667.9	6727.2	6873.3	7072.0	7180.0
20°	6539.0	6586.3	6718.0	6893.0	6987.8
22.5°	6378.4	6421.8	6532.4	6687.7	6773.2
25°	6184.9	6212.5	6316.5	6456.0	6528.4
27.5°	5928.2	5934.8	5998.0	6088.8	6142.8
30°	5555.7	5551.8	5534.7	5530.7	5561.0
32.5°	5034.5	4976.6	4876.6	4829.2	4792.3
35°	4269.8	4209.3	4126.3	4063.2	4063.2
37.5°	3264.2	3316.9	3349.8	3389.3	3409.0
40°	2370.5	2448.2	2612.7	2783.8	2829.9
42.5°	1722.9	1795.3	1973.0	2163.9	2219.1
45°	1309.6	1355.7	1474.2	1611.0	1674.2
47.5°	1058.2	1071.4	1130.6	1212.2	1242.5
50°	867.4	871.3	889.8	931.9	955.6
52.5°	701.5	698.9	704.2	716.0	726.6
55°	560.7	554.1	541.0	541.0	552.8
57.5°	433.0	423.8	409.3	402.8	398.8
60°	331.7	322.5	306.7	296.1	294.8
62.5°	238.2	230.3	214.5	205.3	202.7
65°	140.8	138.2	130.3	125.0	123.7
67.5°	65.8	63.2	56.6	54.0	52.6
70°	31.6	30.3	27.6	26.3	25.0
72.5°	15.8	15.8	13.2	13.2	13.2
75°	9.2	7.9	6.6	6.6	6.6
77.5°	5.3	3.9	3.9	3.9	3.9
80°	2.6	2.6	2.6	1.3	1.3
82.5°	1.3	1.3	1.3	1.3	1.3
85°	1.3	1.3	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)