

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: P247592

Luminaire Tested: **LD8B100D010 ER8B100850 8LBW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247592  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-62)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B100D010 ER8B100850 8LBW0B  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 5000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7279.0 lumens  
Efficiency: N/A  
Efficacy: 68.5 lumens/watt  
Spacing Criteria (0/90/45): 1.09 / 1.07 / 1.01  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

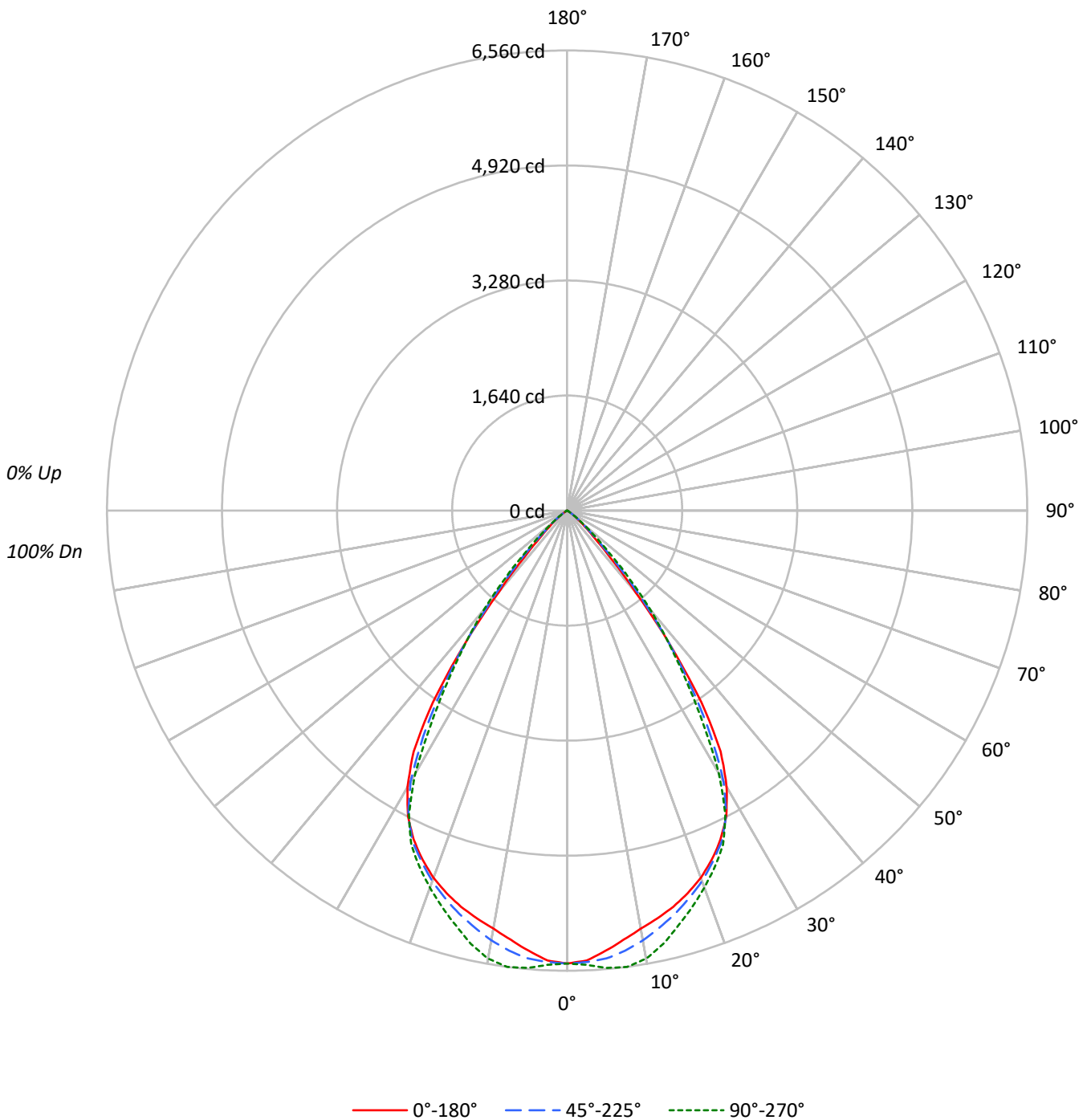
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	100	100	100	100		
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93	93	93	93	93	93	93		
2	107	102	98	95	105	101	97	94	97	94	91	94	92	90	92	89	88	86	86	86	86	86	86	86		
3	102	95	90	86	100	93	89	85	91	87	84	88	85	82	86	83	81	79	79	79	79	79	79	79		
4	96	88	82	78	94	87	82	77	85	80	77	83	79	76	81	78	75	73	73	73	73	73	73	73		
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69	68	68	68	68	68	68	68		
6	86	77	70	66	84	76	70	65	74	69	65	73	68	65	71	67	64	63	63	63	63	63	63	63		
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58	58	58	58	58	58	58		
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	55	54	54	54	54	54	54	54		
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50	50	50	50	50	50	50		
10	69	59	53	49	68	59	53	49	58	52	49	57	52	49	56	52	48	47	47	47	47	47	47	47		

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

	0°	45°	90°
0°	199088	199088	199088
5°	195002	198425	202579
10°	189507	194783	203068
15°	186616	189936	195522
20°	182798	184481	187677
25°	176051	177303	178872
30°	161975	158838	154149
35°	125509	116938	111092
40°	60985	69201	74128
45°	23593	30365	36793
50°	11048	12631	14459
55°	4602	4951	5097
60°	1542	1462	1381
65°	190	285	285
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	606.9	8.3
10°-20°	1679.5	23.1
20°-30°	2366.5	32.5
30°-40°	1914.6	26.3
40°-50°	607.8	8.4
50°-60°	97.2	1.3
60°-70°	6.6	0.1
70°-80°	0.0	0.0
80°-90°	0.0	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°	4652.9	63.9
0°-40°	6567.4	90.2
0°-60°	7272.4	99.9
0°-90°	7279.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7279.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6456	6456	6456	6456	6456	
5°	6300	6329	6410	6504	6544	593
15°	5846	5868	5950	6063	6125	1646
25°	5174	5184	5211	5240	5257	2363
35°	3334	3243	3106	2994	2951	1977
45°	541	584	696	795	844	504
55°	86	87	92	96	95	89
65°	3	4	4	4	4	7
75°	0	0	0	0	0	0
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°
0°	6456.3	6456.3	6456.3	6456.3	6456.3
2.5°	6419.5	6426.1	6441.9	6472.1	6481.3
5°	6299.7	6328.7	6410.3	6503.7	6544.5
7.5°	6170.7	6208.9	6328.7	6486.6	6560.3
10°	6052.2	6093.0	6220.7	6389.2	6485.3
12.5°	5952.2	5983.8	6087.8	6239.1	6328.7
15°	5845.6	5868.0	5949.6	6062.8	6124.6
17.5°	5717.9	5737.6	5791.6	5879.8	5927.2
20°	5570.5	5575.7	5621.8	5678.4	5719.2
22.5°	5387.5	5392.8	5419.1	5473.1	5500.7
25°	5174.3	5183.5	5211.1	5240.1	5257.2
27.5°	4912.3	4916.3	4903.1	4879.4	4884.7
30°	4549.0	4534.6	4460.9	4359.5	4329.2
32.5°	4072.6	3976.5	3817.2	3675.0	3617.1
35°	3334.1	3243.3	3106.4	2994.5	2951.1
37.5°	2395.6	2402.2	2393.0	2368.0	2373.2
40°	1515.0	1575.6	1719.1	1812.5	1841.5
42.5°	909.5	975.4	1133.3	1259.7	1300.5
45°	541.0	584.4	696.3	795.0	843.7
47.5°	347.5	368.6	423.8	481.8	509.4
50°	230.3	240.9	263.3	289.6	301.4
52.5°	147.4	151.4	161.9	171.1	180.3
55°	85.6	86.9	92.1	96.1	94.8
57.5°	44.8	44.8	44.8	44.8	44.8
60°	25.0	23.7	23.7	23.7	22.4
62.5°	11.8	11.8	11.8	10.5	10.5
65°	2.6	3.9	3.9	3.9	3.9
67.5°	0.0	0.0	0.0	0.0	1.3
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	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)