

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: P250605

Luminaire Tested: **LD8B100D010 ER8B100950 8LBM0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250605  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13928)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B100D010 ER8B100950 8LBM0B  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 5000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6394.0 lumens  
Efficiency: N/A  
Efficacy: 60.2 lumens/watt  
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.87  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

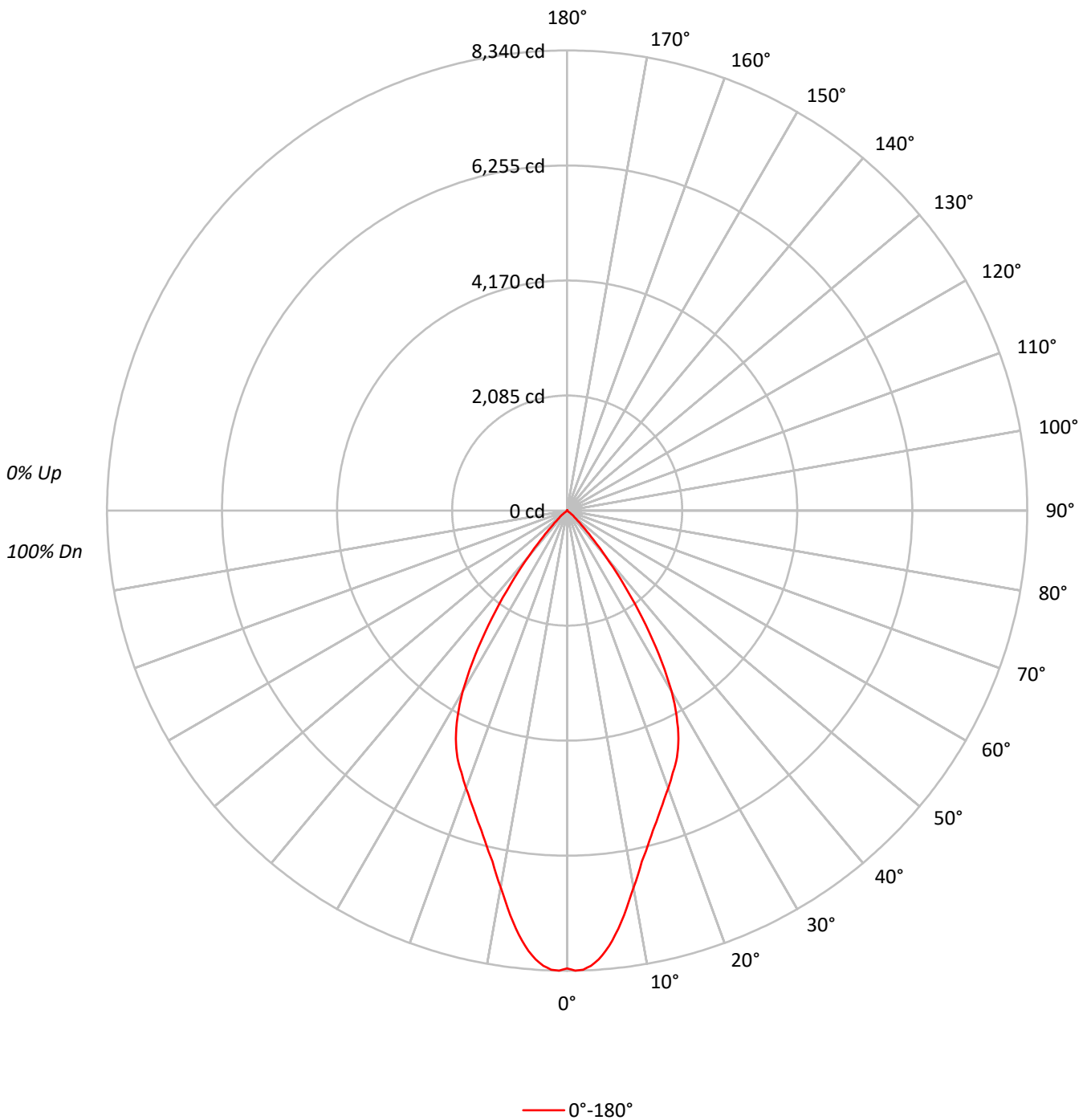
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	96	92	88	101	95	91	87	92	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	79	74	69	87	79	73	69	77	72	69		76	71	68		74	71	68	66
7	84	75	69	65	83	74	68	64	73	68	64		72	67	64		70	66	63	62
8	80	70	64	60	79	70	64	60	69	64	60		68	63	60		67	63	60	58
9	76	66	61	57	75	66	60	57	65	60	56		64	60	56		63	59	56	55
10	72	63	57	53	71	62	57	53	62	57	53		61	56	53		60	56	53	51

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

	0°
0°	255830
5°	248010
10°	217205
15°	191762
20°	175719
25°	161798
30°	134668
35°	89446
40°	43535
45°	15765
50°	4745
55°	333
60°	0
65°	226
70°	0
75°	0
80°	550
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	728.7	11.4
10°-20°	1692.3	26.5
20°-30°	2147.0	33.6
30°-40°	1470.8	23.0
40°-50°	335.2	5.2
50°-60°	16.7	0.3
60°-70°	0.8	0.0
70°-80°	1.2	0.0
80°-90°	1.3	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°	4568.0	71.4
0°-40°	6038.8	94.4
0°-60°	6390.7	99.9
0°-90°	6394.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6394.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	8296	
5°	8012	729
15°	6007	1692
25°	4755	2147
35°	2376	1471
45°	362	335
55°	6	17
65°	3	1
75°	0	1
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	8296.4
1°	8339.7
2°	8324.2
3°	8262.4
4°	8157.3
5°	8012.2
6°	7836.0
7°	7632.1
8°	7406.5
9°	7165.5
10°	6936.8
11°	6726.7
12°	6501.2
13°	6337.4
14°	6164.4
15°	6006.8
16°	5864.7
17°	5725.6
18°	5595.8
19°	5469.1
20°	5354.8
21°	5237.4
22°	5116.9
23°	5011.9
24°	4894.4
25°	4755.4
26°	4600.9
27°	4421.7
28°	4230.1
29°	4016.9
30°	3782.1
31°	3516.3
32°	3241.3
33°	2954.0
34°	2660.4
35°	2376.1
37.5°	1677.8
40°	1081.5
42.5°	636.5
45°	361.5
47.5°	194.7
50°	98.9
52.5°	18.5
55°	6.2
57.5°	3.1



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	0.0
62.5°	0.0
65°	3.1
67.5°	0.0
70°	0.0
72.5°	3.1
75°	0.0
77.5°	0.0
80°	3.1
82.5°	0.0
85°	0.0
87.5°	3.1
90°	0.0

(END OF REPORT)