

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: P250598

Luminaire Tested: **LD8B100D010 ER8B100940 8LBM0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250598  
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 ER8B100940 8LBM0B  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 4000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6176.0 lumens  
Efficiency: N/A  
Efficacy: 58.1 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

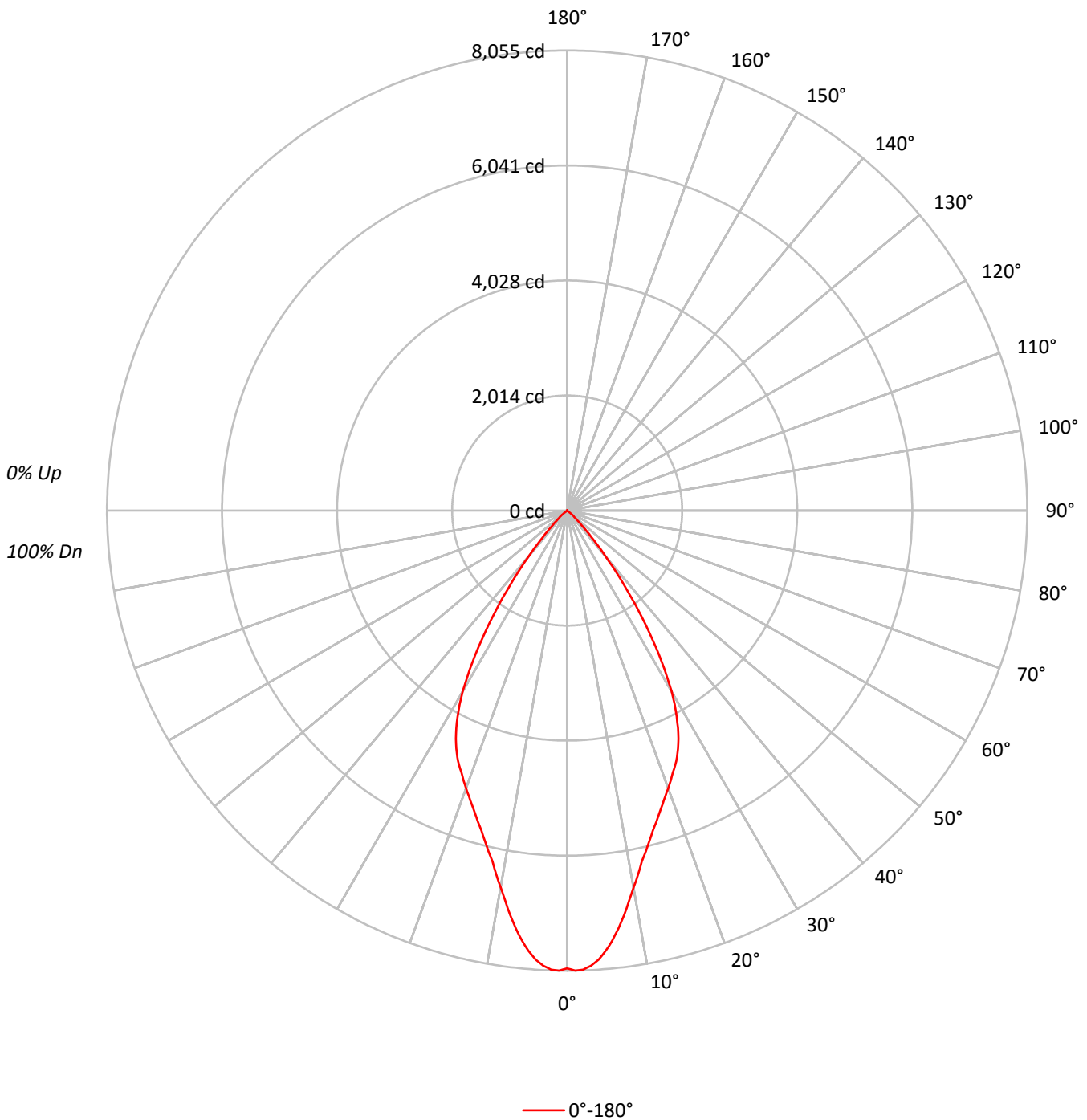
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	247110
5°	239554
10°	209800
15°	185224
20°	169727
25°	156283
30°	130075
35°	86397
40°	42049
45°	15228
50°	4581
55°	323
60°	0
65°	219
70°	0
75°	0
80°	533
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	703.9	11.4
10°-20°	1634.6	26.5
20°-30°	2073.8	33.6
30°-40°	1420.7	23.0
40°-50°	323.7	5.2
50°-60°	16.1	0.3
60°-70°	0.7	0.0
70°-80°	1.2	0.0
80°-90°	1.2	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°	4412.3	71.4
0°-40°	5832.9	94.4
0°-60°	6172.8	99.9
0°-90°	6176.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6176.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	8014	
5°	7739	704
15°	5802	1635
25°	4593	2074
35°	2295	1421
45°	349	324
55°	6	16
65°	3	1
75°	0	1
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	8013.6
1°	8055.3
2°	8040.4
3°	7980.7
4°	7879.2
5°	7739.0
6°	7568.8
7°	7371.9
8°	7154.0
9°	6921.2
10°	6700.3
11°	6497.4
12°	6279.5
13°	6121.4
14°	5954.2
15°	5802.0
16°	5664.7
17°	5530.4
18°	5405.0
19°	5282.6
20°	5172.2
21°	5058.8
22°	4942.4
23°	4841.0
24°	4727.6
25°	4593.3
26°	4444.0
27°	4270.9
28°	4085.9
29°	3879.9
30°	3653.1
31°	3396.4
32°	3130.8
33°	2853.2
34°	2569.7
35°	2295.1
37.5°	1620.6
40°	1044.6
42.5°	614.8
45°	349.2
47.5°	188.0
50°	95.5
52.5°	17.9
55°	6.0
57.5°	3.0



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	0.0
62.5°	0.0
65°	3.0
67.5°	0.0
70°	0.0
72.5°	3.0
75°	0.0
77.5°	0.0
80°	3.0
82.5°	0.0
85°	0.0
87.5°	3.0
90°	0.0

(END OF REPORT)