

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: P250541

Luminaire Tested: **LD8B90D010 ER8B90827 8LBM0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250541  
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: LD8B90D010 ER8B90827 8LBM0B  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 2700 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5638.0 lumens  
Efficiency: N/A  
Efficacy: 65.5 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

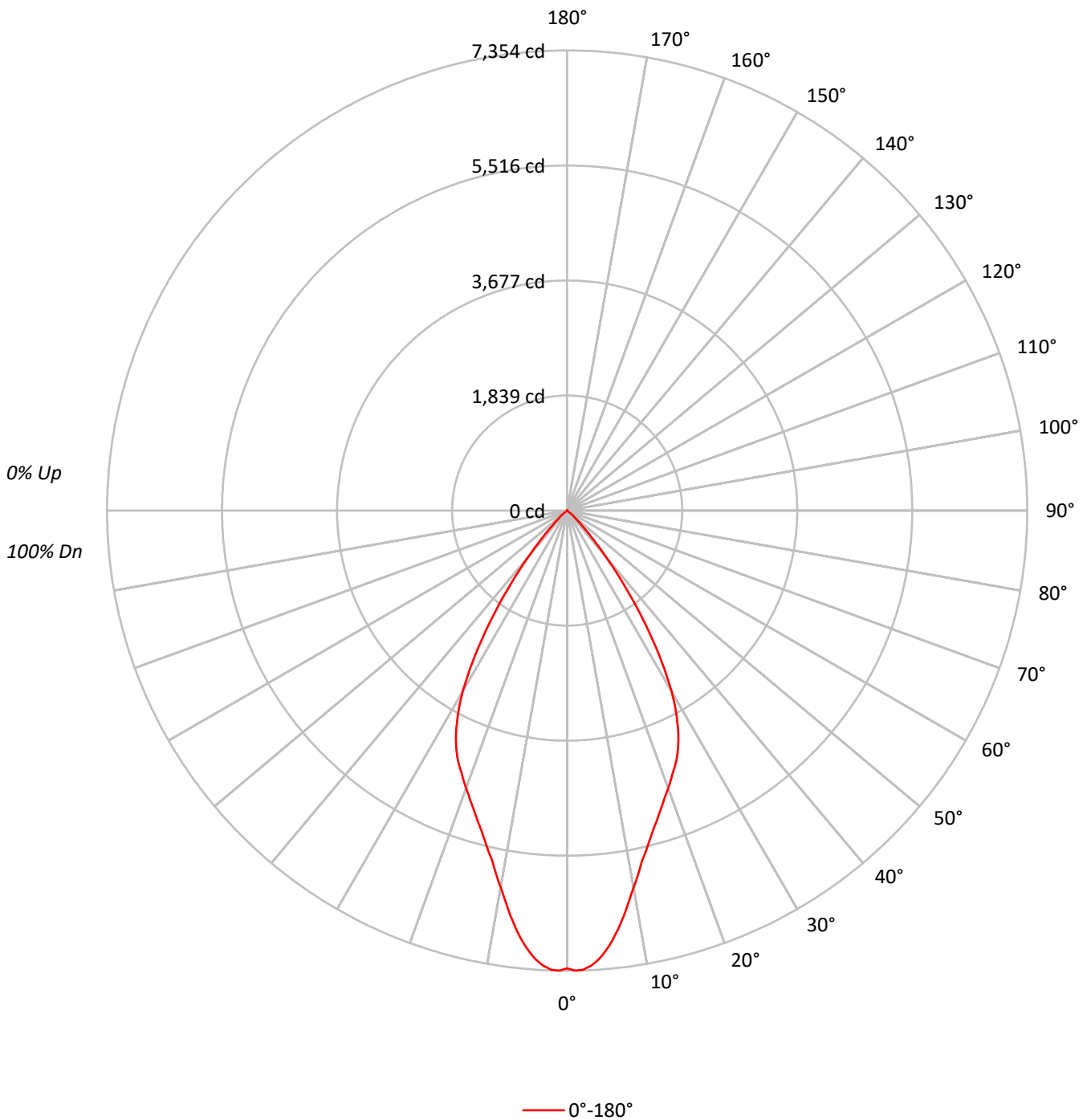
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	225583
5°	218685
10°	191523
15°	169089
20°	154944
25°	142666
30°	118745
35°	78872
40°	38386
45°	13903
50°	4183
55°	296
60°	0
65°	197
70°	0
75°	0
80°	479
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	642.6	11.4
10°-20°	1492.2	26.5
20°-30°	1893.1	33.6
30°-40°	1296.9	23.0
40°-50°	295.6	5.2
50°-60°	14.7	0.3
60°-70°	0.7	0.0
70°-80°	1.1	0.0
80°-90°	1.1	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°	4027.9	71.4
0°-40°	5324.8	94.4
0°-60°	5635.1	99.9
0°-90°	5638.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5638.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7316	
5°	7065	643
15°	5297	1492
25°	4193	1893
35°	2095	1297
45°	319	296
55°	6	15
65°	3	1
75°	0	1
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	7315.5
1°	7353.6
2°	7340.0
3°	7285.5
4°	7192.8
5°	7064.8
6°	6909.5
7°	6729.7
8°	6530.8
9°	6318.2
10°	6116.6
11°	5931.4
12°	5732.5
13°	5588.1
14°	5435.5
15°	5296.6
16°	5171.3
17°	5048.6
18°	4934.2
19°	4822.5
20°	4721.7
21°	4618.1
22°	4511.9
23°	4419.3
24°	4315.7
25°	4193.1
26°	4056.9
27°	3898.9
28°	3729.9
29°	3542.0
30°	3334.9
31°	3100.6
32°	2858.1
33°	2604.7
34°	2345.8
35°	2095.2
37.5°	1479.4
40°	953.6
42.5°	561.3
45°	318.8
47.5°	171.7
50°	87.2
52.5°	16.3
55°	5.5
57.5°	2.7



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	0.0
62.5°	0.0
65°	2.7
67.5°	0.0
70°	0.0
72.5°	2.7
75°	0.0
77.5°	0.0
80°	2.7
82.5°	0.0
85°	0.0
87.5°	2.7
90°	0.0

(END OF REPORT)