

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: P247291

Luminaire Tested: **LD8B90D010 ER8B90830 8LBM0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247291  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201734)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B90D010 ER8B90830 8LBM0WMH  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8622.0 lumens  
Efficiency: N/A  
Efficacy: 100.1 lumens/watt  
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.9  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

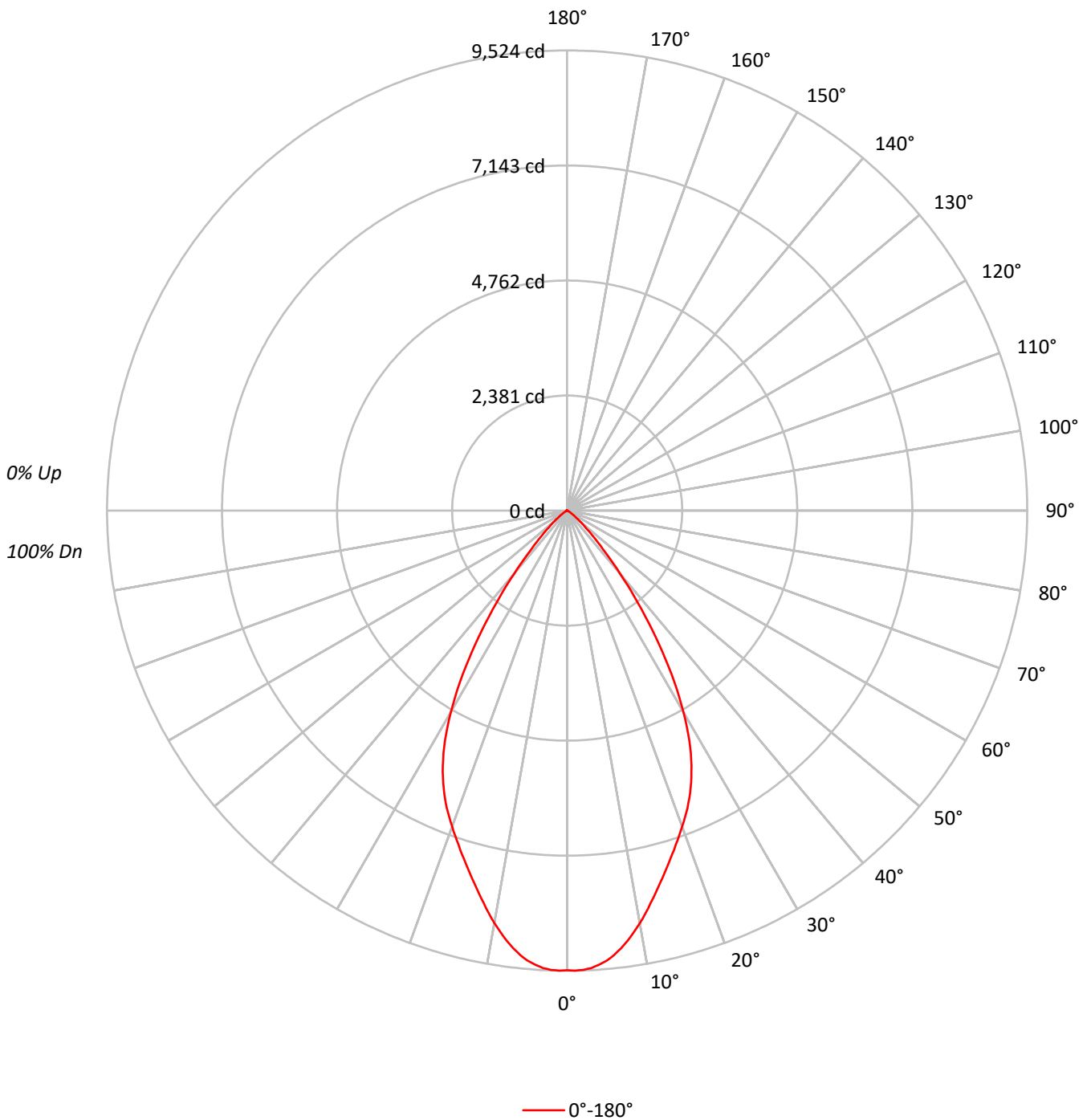
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	111	108	106	111	108	106	104	104	103	101		101	99	98		97	96	95	93
2	108	103	99	95	105	101	97	94	98	95	92		95	92	90		92	90	88	86
3	102	95	90	86	100	94	89	86	91	87	84		89	86	83		87	84	82	80
4	97	89	83	79	95	88	82	78	86	81	77		84	80	77		82	78	76	74
5	92	83	77	73	90	82	76	72	80	75	72		79	74	71		77	73	70	69
6	87	78	72	67	85	77	71	67	75	70	66		74	69	66		73	69	66	64
7	82	73	67	62	81	72	66	62	71	66	62		70	65	61		68	64	61	60
8	78	68	62	58	77	68	62	58	67	61	58		66	61	57		65	60	57	56
9	74	64	58	54	73	64	58	54	63	58	54		62	57	54		61	57	54	52
10	71	61	55	51	70	60	55	51	60	54	51		59	54	51		58	54	50	49

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

	0°
0°	293284
5°	289504
10°	271413
15°	248191
20°	228483
25°	207033
30°	171428
35°	120224
40°	68412
45°	33575
50°	16560
55°	7516
60°	3565
65°	1926
70°	198
75°	262
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	870.4	10.1
10°-20°	2182.4	25.3
20°-30°	2755.0	32.0
30°-40°	1981.8	23.0
40°-50°	655.9	7.6
50°-60°	142.9	1.7
60°-70°	29.4	0.3
70°-80°	2.9	0.0
80°-90°	1.5	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°	5807.7	67.4
0°-40°	7789.5	90.3
0°-60°	8588.3	99.6
0°-90°	8622.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8622.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	9511	
5°	9353	870
15°	7774	2182
25°	6085	2755
35°	3194	1982
45°	770	656
55°	140	143
65°	26	29
75°	2	3
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	9511.0
1°	9524.3
2°	9513.1
3°	9481.8
4°	9423.5
5°	9352.7
6°	9255.4
7°	9128.7
8°	8988.9
9°	8836.1
10°	8668.0
11°	8496.3
12°	8309.4
13°	8129.4
14°	7948.2
15°	7774.4
16°	7603.3
17°	7439.2
18°	7276.6
19°	7120.2
20°	6962.7
21°	6801.4
22°	6644.0
23°	6472.6
24°	6287.9
25°	6084.9
26°	5871.8
27°	5634.5
28°	5383.6
29°	5104.9
30°	4814.5
31°	4509.0
32°	4187.6
33°	3850.3
34°	3520.3
35°	3193.7
37.5°	2398.4
40°	1699.5
42.5°	1151.4
45°	769.9
47.5°	516.6
50°	345.2
52.5°	208.4
55°	139.8
57.5°	97.3



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	57.8
62.5°	39.5
65°	26.4
67.5°	23.7
70°	2.2
72.5°	5.4
75°	2.2
77.5°	2.2
80°	0.0
82.5°	5.4
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)