

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: P249953

Luminaire Tested: **LSR8B90D010 EC8B90827 8LBN0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249953  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13951)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B90D010 EC8B90827 8LBN0WMH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 2700 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7791.0 lumens  
Efficiency: N/A  
Efficacy: 90.5 lumens/watt  
Spacing Criteria (0/90/45): 0.74 / 0.74 / 0.79  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

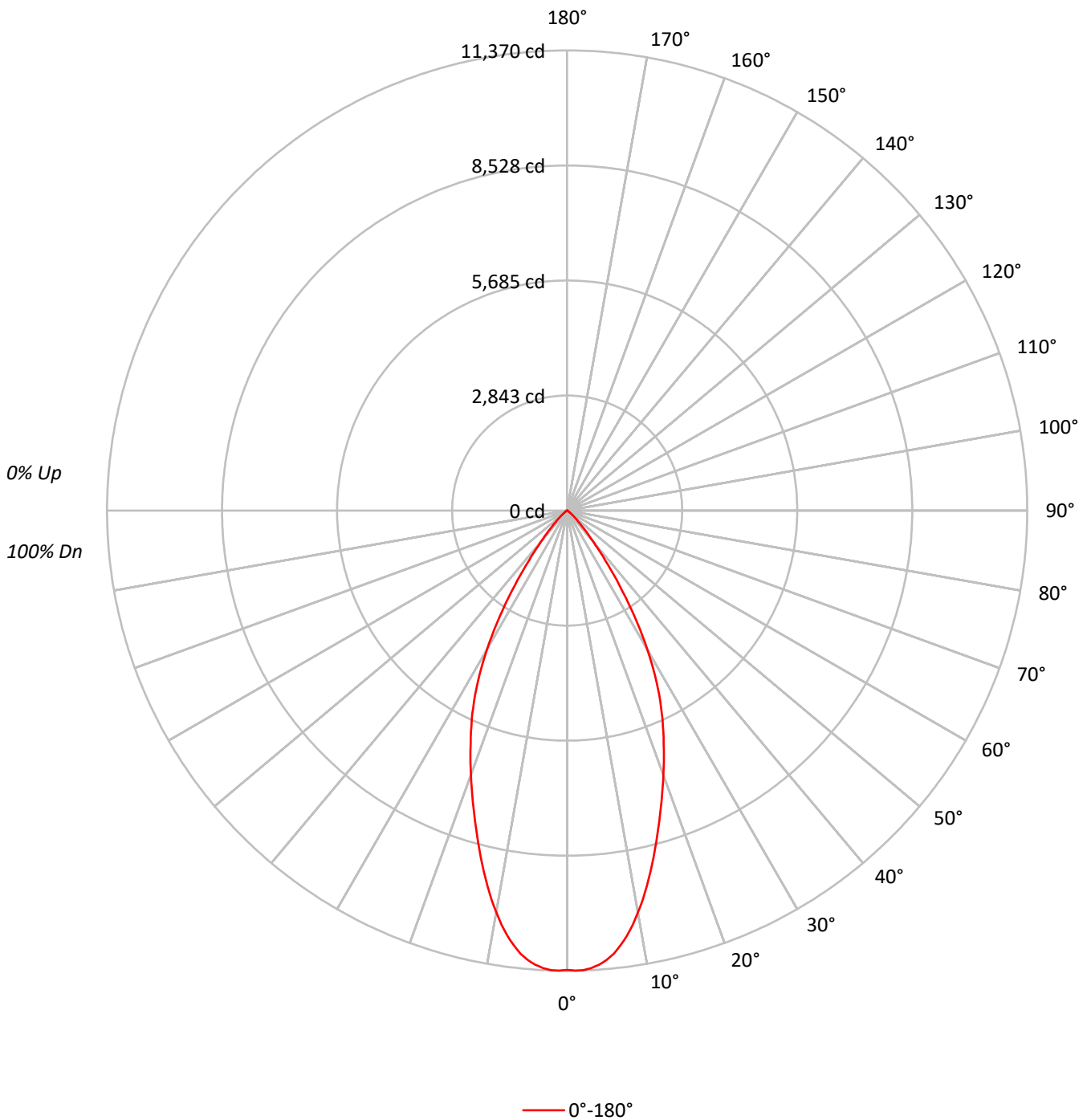
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	108	104	100	97	106	102	99	96	99	96	93	96	94	91	93	91	90	88
3	103	97	92	89	101	96	91	88	93	89	86	91	88	85	89	86	84	82
4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	79	77
5	94	86	80	76	92	85	80	76	83	78	75	81	77	74	80	76	74	72
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68
7	85	76	71	67	84	76	70	66	74	70	66	73	69	66	72	68	65	64
8	81	72	66	63	80	72	66	62	71	66	62	70	65	62	69	65	62	60
9	78	68	63	59	77	68	63	59	67	62	59	66	62	58	65	61	58	57
10	74	65	59	56	73	65	59	56	64	59	56	63	59	55	62	58	55	54

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

	0°
0°	349924
5°	345048
10°	315672
15°	271029
20°	228234
25°	188572
30°	141444
35°	84312
40°	40169
45°	17500
50°	7935
55°	3494
60°	2004
65°	1189
70°	1226
75°	0
80°	479
85°	1911



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1029.9	13.2
10°-20°	2363.1	30.3
20°-30°	2510.5	32.2
30°-40°	1432.3	18.4
40°-50°	355.1	4.6
50°-60°	69.8	0.9
60°-70°	21.1	0.3
70°-80°	5.0	0.1
80°-90°	4.0	0.1
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°	5903.5	75.8
0°-40°	7335.9	94.2
0°-60°	7760.9	99.6
0°-90°	7791.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7791.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	11348	
5°	11147	###
15°	8490	2363
25°	5542	2510
35°	2240	1432
45°	401	355
55°	65	70
65°	16	21
75°	0	5
85°	5	4
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	11347.8
1°	11369.5
2°	11361.4
3°	11320.7
4°	11250.2
5°	11147.1
6°	11011.6
7°	10824.5
8°	10610.2
9°	10358.2
10°	10081.5
11°	9788.7
12°	9474.1
13°	9154.2
14°	8826.1
15°	8489.8
16°	8172.6
17°	7852.6
18°	7551.6
19°	7245.3
20°	6955.1
22.5°	6236.5
25°	5542.3
27.5°	4796.8
30°	3972.4
32.5°	3088.4
35°	2239.7
37.5°	1542.8
40°	997.9
42.5°	631.8
45°	401.3
47.5°	263.1
50°	165.4
52.5°	100.4
55°	65.0
57.5°	51.6
60°	32.5
62.5°	29.8
65°	16.3
67.5°	16.3
70°	13.6
72.5°	8.2
75°	0.0
77.5°	2.7
80°	2.7



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**CANDELA DISTRIBUTION (continued):**

	0°
82.5°	5.4
85°	5.4
87.5°	2.7
90°	0.0

(END OF REPORT)