

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: P250002

Luminaire Tested: **LSR8B90D010 EC8B90935 8LBN0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250002  
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 EC8B90935 8LBN0WMH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 3500 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7082.0 lumens  
Efficiency: N/A  
Efficacy: 82.3 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

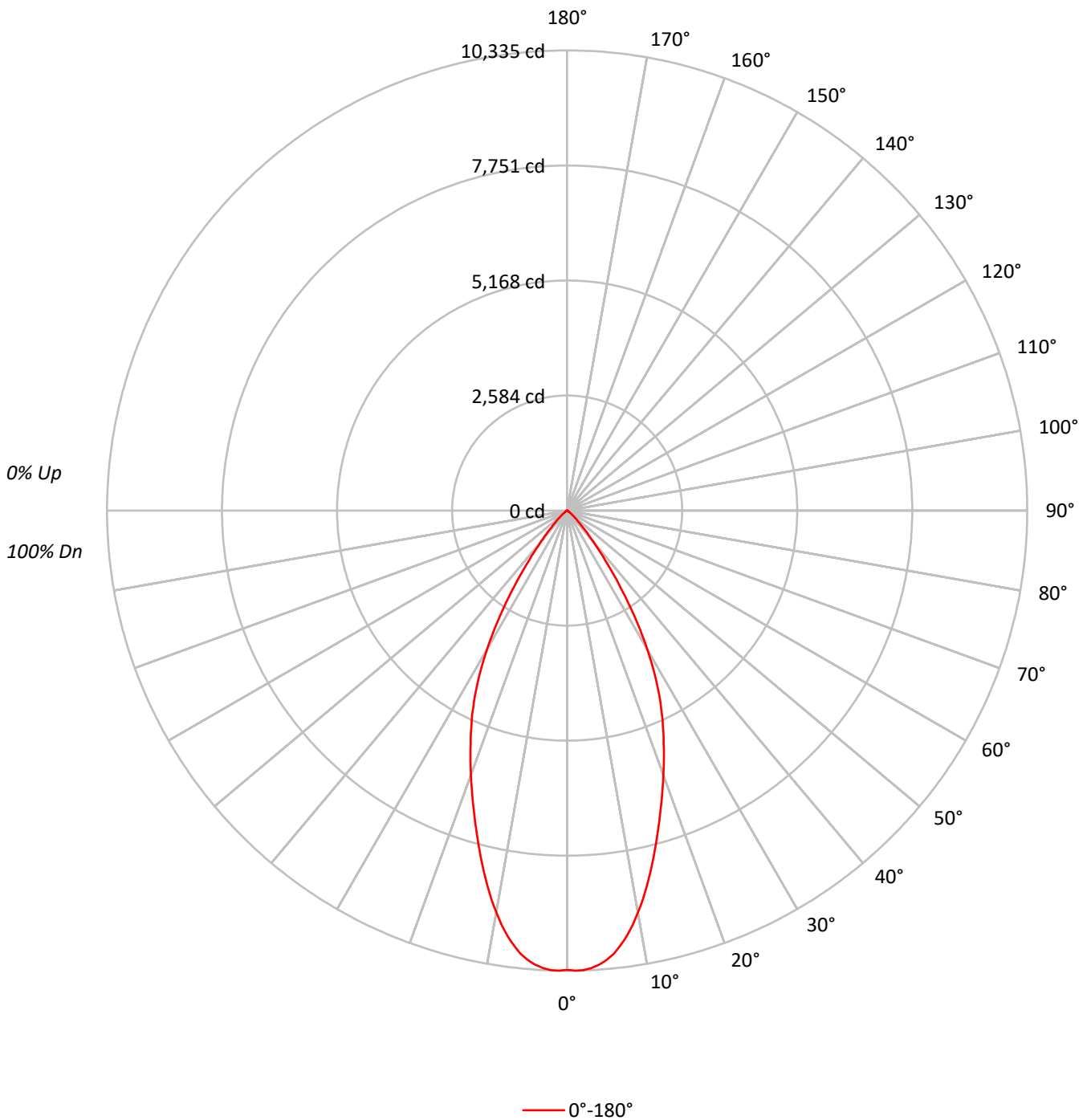
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	318080
5°	313649
10°	286943
15°	246365
20°	207465
25°	171413
30°	128572
35°	76640
40°	36514
45°	15909
50°	7215
55°	3177
60°	1826
65°	1080
70°	1118
75°	0
80°	444
85°	1734



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	936.2	13.2
10°-20°	2148.0	30.3
20°-30°	2282.0	32.2
30°-40°	1302.0	18.4
40°-50°	322.8	4.6
50°-60°	63.5	0.9
60°-70°	19.2	0.3
70°-80°	4.5	0.1
80°-90°	3.7	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°	5366.3	75.8
0°-40°	6668.3	94.2
0°-60°	7054.6	99.6
0°-90°	7082.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7082.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	10315	
5°	10133	936
15°	7717	2148
25°	5038	2282
35°	2036	1302
45°	365	323
55°	59	63
65°	15	19
75°	0	5
85°	5	4
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	10315.1
1°	10334.9
2°	10327.5
3°	10290.5
4°	10226.4
5°	10132.7
6°	10009.5
7°	9839.4
8°	9644.7
9°	9415.5
10°	9164.0
11°	8897.9
12°	8611.9
13°	8321.1
14°	8022.9
15°	7717.2
16°	7428.9
17°	7138.0
18°	6864.4
19°	6585.9
20°	6322.2
22.5°	5669.0
25°	5038.0
27.5°	4360.2
30°	3610.9
32.5°	2807.3
35°	2035.9
37.5°	1402.4
40°	907.1
42.5°	574.3
45°	364.8
47.5°	239.1
50°	150.4
52.5°	91.2
55°	59.1
57.5°	46.9
60°	29.6
62.5°	27.1
65°	14.8
67.5°	14.8
70°	12.4
72.5°	7.4
75°	0.0
77.5°	2.5
80°	2.5



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**CANDELA DISTRIBUTION (continued):**

	0°
82.5°	4.9
85°	4.9
87.5°	2.5
90°	0.0

(END OF REPORT)