

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: P250632

Luminaire Tested: **LSR8B90D010 EC8B90830 8LBN0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250632  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P131425)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B90D010 EC8B90830 8LBN0MW  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8379.0 lumens  
Efficiency: N/A  
Efficacy: 97.3 lumens/watt  
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.85  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

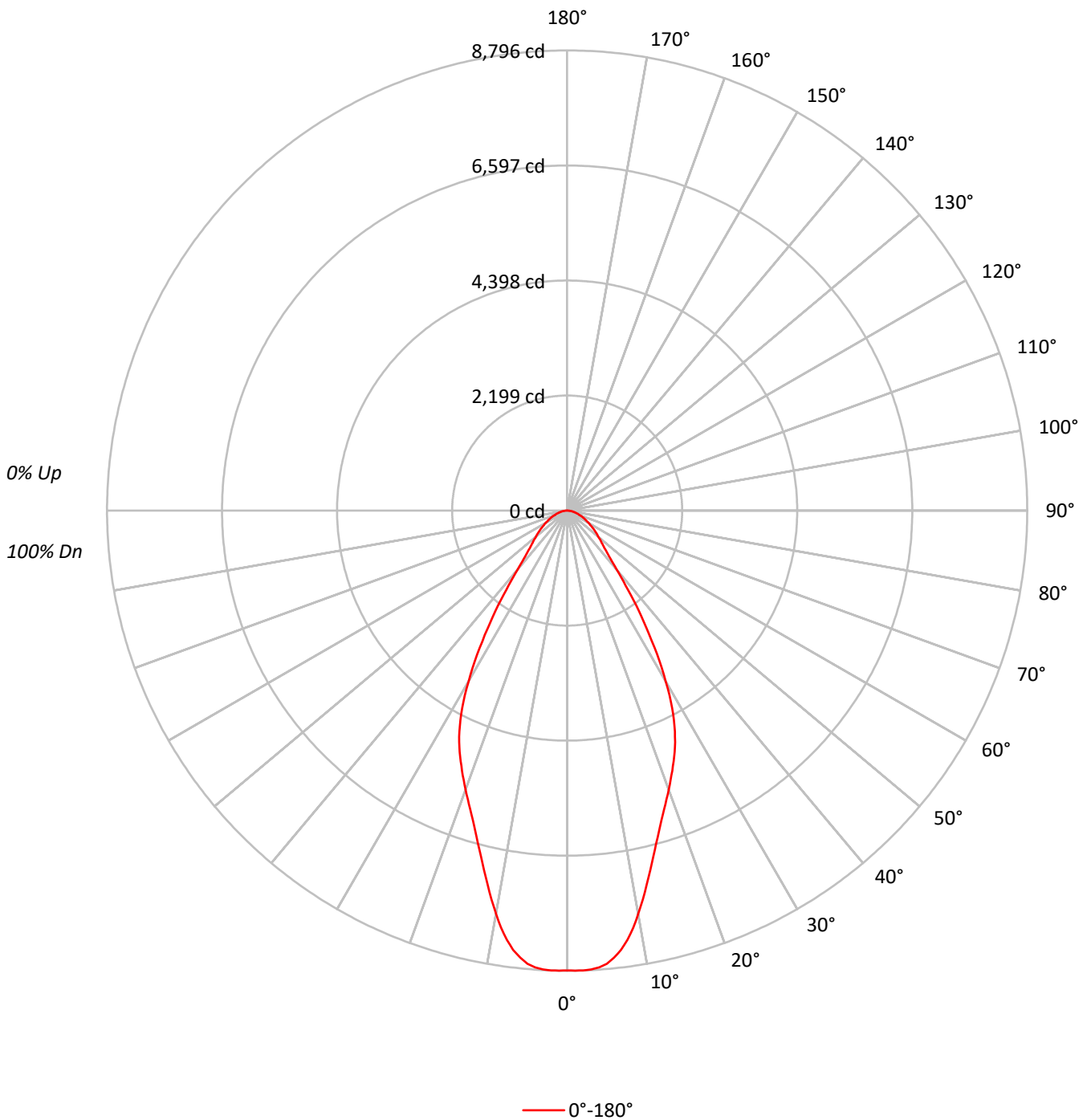
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	109	106	103	109	106	104	101	102	100	98		98	97	95		95	94	92	90
2	105	99	94	90	103	97	93	89	94	90	87		91	88	85		88	86	83	82
3	99	91	85	80	96	89	84	79	87	82	78		84	80	77		82	78	76	74
4	93	84	77	72	91	83	76	72	80	75	71		78	74	70		76	72	69	67
5	87	78	71	66	85	77	70	65	75	69	65		73	68	64		71	67	64	62
6	82	72	65	60	81	71	65	60	70	64	60		68	63	59		67	62	59	57
7	78	67	60	56	76	67	60	55	65	59	55		64	59	55		63	58	54	53
8	74	63	56	52	72	62	56	51	61	55	51		60	55	51		59	54	51	49
9	70	59	53	48	69	59	52	48	58	52	48		57	51	48		56	51	47	46
10	66	56	49	45	65	55	49	45	54	49	45		54	48	45		53	48	45	43

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

	0°
0°	271073
5°	269127
10°	245201
15°	210220
20°	186260
25°	166194
30°	134227
35°	93199
40°	59085
45°	43840
50°	37452
55°	32918
60°	29350
65°	26333
70°	22657
75°	20707
80°	19463
85°	17018



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	802.5	9.6
10°-20°	1851.6	22.1
20°-30°	2206.8	26.3
30°-40°	1557.7	18.6
40°-50°	804.5	9.6
50°-60°	552.1	6.6
60°-70°	358.9	4.3
70°-80°	187.9	2.2
80°-90°	57.1	0.7
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°	4860.9	58.0
0°-40°	6418.6	76.6
0°-60°	7775.2	92.8
0°-90°	8379.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8379.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	8791	
5°	8694	802
15°	6585	1852
25°	4885	2207
35°	2476	1558
45°	1005	804
55°	612	552
65°	361	359
75°	174	188
85°	48	57
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	8790.7
1°	8796.1
2°	8796.1
3°	8782.7
4°	8753.3
5°	8694.4
6°	8590.2
7°	8461.8
8°	8285.3
9°	8071.5
10°	7830.9
11°	7576.9
12°	7312.1
13°	7058.2
14°	6812.2
15°	6585.0
16°	6373.8
17°	6178.6
18°	6002.1
19°	5836.4
20°	5676.0
21°	5518.2
22°	5363.2
23°	5208.1
24°	5050.4
25°	4884.6
26°	4697.4
27°	4494.2
28°	4272.4
29°	4037.1
30°	3769.7
31°	3510.4
32°	3245.7
33°	2973.0
34°	2721.6
35°	2475.8
37.5°	1906.3
40°	1467.8
42.5°	1181.8
45°	1005.3
47.5°	879.6
50°	780.7
52.5°	695.2
55°	612.3
57.5°	537.4



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	475.9
62.5°	414.4
65°	360.9
67.5°	312.8
70°	251.3
72.5°	216.6
75°	173.8
77.5°	141.6
80°	109.6
82.5°	80.2
85°	48.1
87.5°	26.7
90°	0.0

(END OF REPORT)