

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: P250037

Luminaire Tested: **LSR8B90D010 EC8B90827 8LBN0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250037  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13946)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B90D010 EC8B90827 8LBN0WH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 2700 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8217.1 lumens  
Efficiency: N/A  
Efficacy: 95.4 lumens/watt  
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.66  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

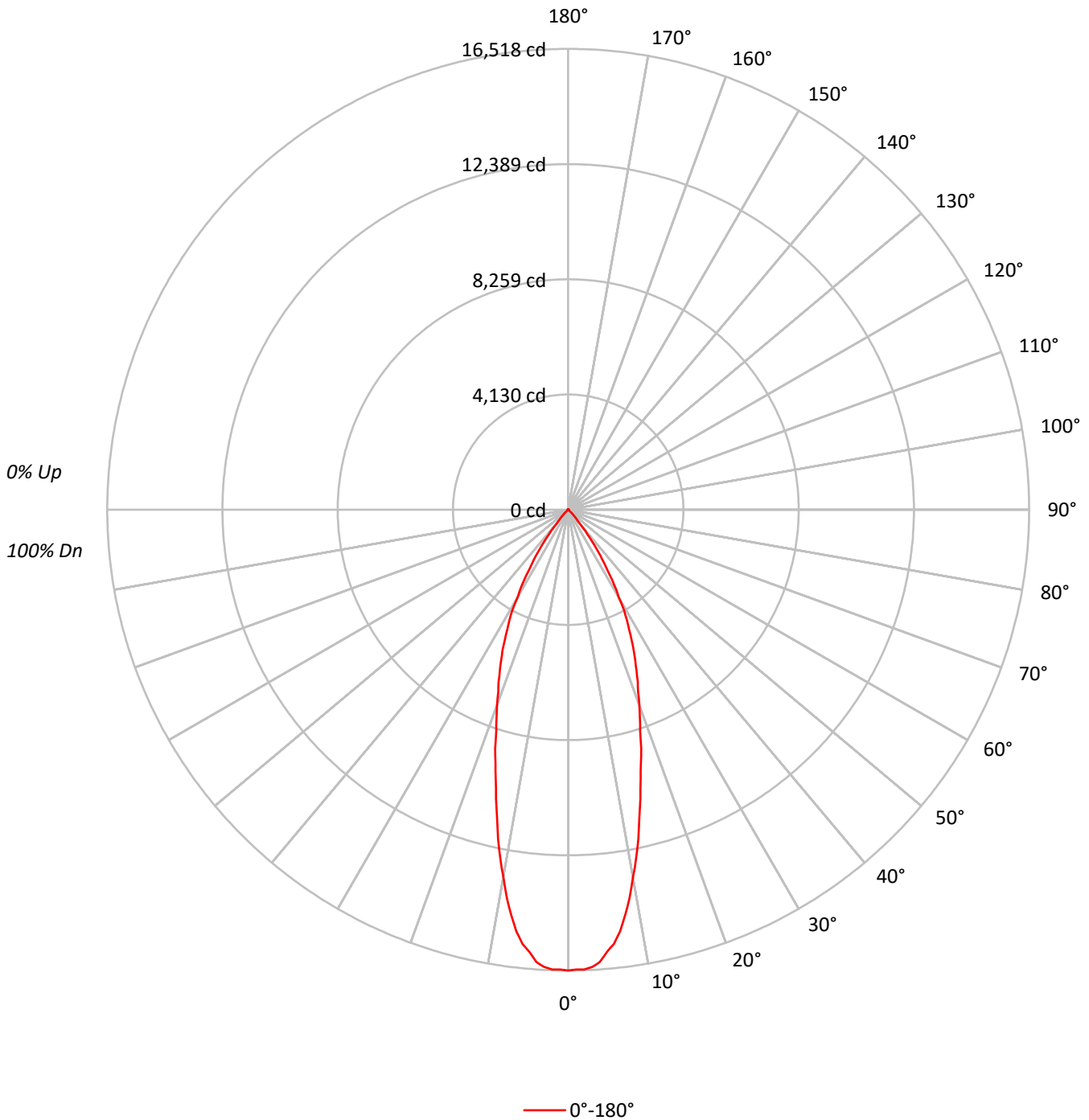
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89
3	105	99	94	91	103	97	93	90	95	91	89	92	90	87	90	88	86	85
4	100	93	88	85	98	92	88	84	90	86	83	88	85	82	86	84	81	80
5	96	88	83	79	94	87	83	79	86	82	78	84	81	78	83	80	77	76
6	92	84	79	75	90	83	78	74	82	77	74	80	76	74	79	76	73	72
7	88	80	74	71	87	79	74	70	78	73	70	77	73	70	76	72	69	68
8	84	76	71	67	83	75	70	67	74	70	67	73	69	66	72	69	66	65
9	81	72	67	64	80	72	67	64	71	66	63	70	66	63	69	66	63	62
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59

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

	0°
0°	509360
5°	492579
10°	418908
15°	319726
20°	244349
25°	189354
30°	129146
35°	75876
40°	23202
45°	9127
50°	139
55°	156
60°	179
65°	423
70°	775
75°	691
80°	515
85°	3043



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1442.6	17.6
10°-20°	2795.5	34.0
20°-30°	2516.8	30.6
30°-40°	1245.2	15.2
40°-50°	189.4	2.3
50°-60°	7.8	0.1
60°-70°	10.0	0.1
70°-80°	3.8	0.0
80°-90°	5.9	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°	6754.9	82.2
0°-40°	8000.1	97.4
0°-60°	8197.4	99.8
0°-90°	8217.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8217.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	16518	
5°	15913	###
15°	10015	2795
25°	5565	2517
35°	2016	1245
45°	209	189
55°	3	8
65°	6	10
75°	6	4
85°	9	6
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	16518.2
1°	16483.8
2°	16492.3
3°	16409.1
4°	16257.2
5°	15913.2
6°	15649.4
7°	15230.8
8°	14668.8
9°	14083.8
10°	13378.5
11°	12747.7
12°	12071.1
13°	11322.7
14°	10677.6
15°	10015.2
16°	9450.4
17°	8951.5
18°	8337.9
19°	7887.7
20°	7446.2
21°	6987.4
22°	6652.0
23°	6262.0
24°	5903.6
25°	5565.3
26°	5166.7
27°	4808.4
28°	4487.2
29°	4134.5
30°	3627.0
31°	3340.4
32°	2979.0
33°	2583.3
34°	2282.3
35°	2015.6
37.5°	1275.9
40°	576.4
42.5°	392.8
45°	209.3
47.5°	117.5
50°	2.9
52.5°	11.5
55°	2.9
57.5°	17.3



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	2.9
62.5°	14.4
65°	5.8
67.5°	14.4
70°	8.6
72.5°	2.9
75°	5.8
77.5°	0.0
80°	2.9
82.5°	11.5
85°	8.6
87.5°	0.0
90°	0.0

(END OF REPORT)