

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: P250696

Luminaire Tested: **LSR8B100D010 EC8B100927 8LBN0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250696  
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: LSR8B100D010 EC8B100927 8LBN0MW  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7875.0 lumens  
Efficiency: N/A  
Efficacy: 74.1 lumens/watt  
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.85  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

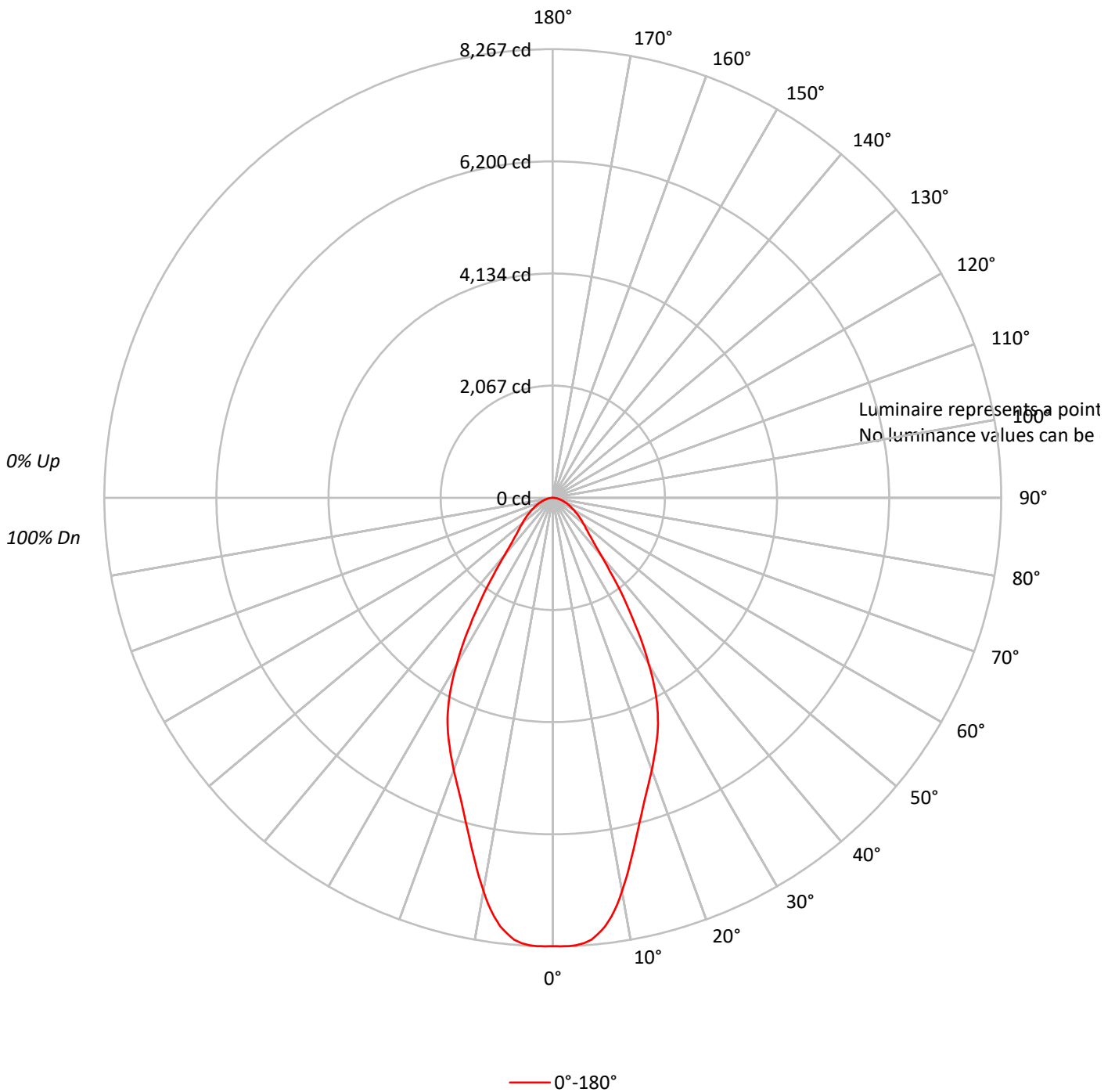
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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):**





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	754.2	9.6
10°-20°	1740.2	22.1
20°-30°	2074.1	26.3
30°-40°	1464.1	18.6
40°-50°	756.1	9.6
50°-60°	518.8	6.6
60°-70°	337.3	4.3
70°-80°	176.6	2.2
80°-90°	53.6	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°	4568.5	58.0
0°-40°	6032.5	76.6
0°-60°	7307.4	92.8
0°-90°	7875.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7875.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	8262	
5°	8171	754
15°	6189	1740
25°	4591	2074
35°	2327	1464
45°	945	756
55°	575	519
65°	339	337
75°	163	177
85°	45	54
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	8261.9
1°	8266.9
2°	8266.9
3°	8254.4
4°	8226.8
5°	8171.4
6°	8073.4
7°	7952.8
8°	7786.9
9°	7586.0
10°	7359.9
11°	7121.1
12°	6872.3
13°	6633.7
14°	6402.5
15°	6189.0
16°	5990.4
17°	5807.0
18°	5641.1
19°	5485.3
20°	5334.5
21°	5186.2
22°	5040.6
23°	4894.9
24°	4746.6
25°	4590.8
26°	4414.8
27°	4223.9
28°	4015.4
29°	3794.3
30°	3543.0
31°	3299.3
32°	3050.4
33°	2794.2
34°	2557.9
35°	2326.8
37.5°	1791.7
40°	1379.6
42.5°	1110.7
45°	944.8
47.5°	826.6
50°	733.7
52.5°	653.3
55°	575.4
57.5°	505.1



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	447.3
62.5°	389.5
65°	339.2
67.5°	294.0
70°	236.2
72.5°	203.6
75°	163.4
77.5°	133.1
80°	102.9
82.5°	75.4
85°	45.2
87.5°	25.1
90°	0.0

(END OF REPORT)