

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: P250024

Luminaire Tested: **LSR8B100D010 EC8B100927 8LBN0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250024  
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: LSR8B100D010 EC8B100927 8LBN0WMH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7506.1 lumens  
Efficiency: N/A  
Efficacy: 70.6 lumens/watt  
Spacing Criteria (0/90/45): 0.74 / 0.74 / 0.79  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

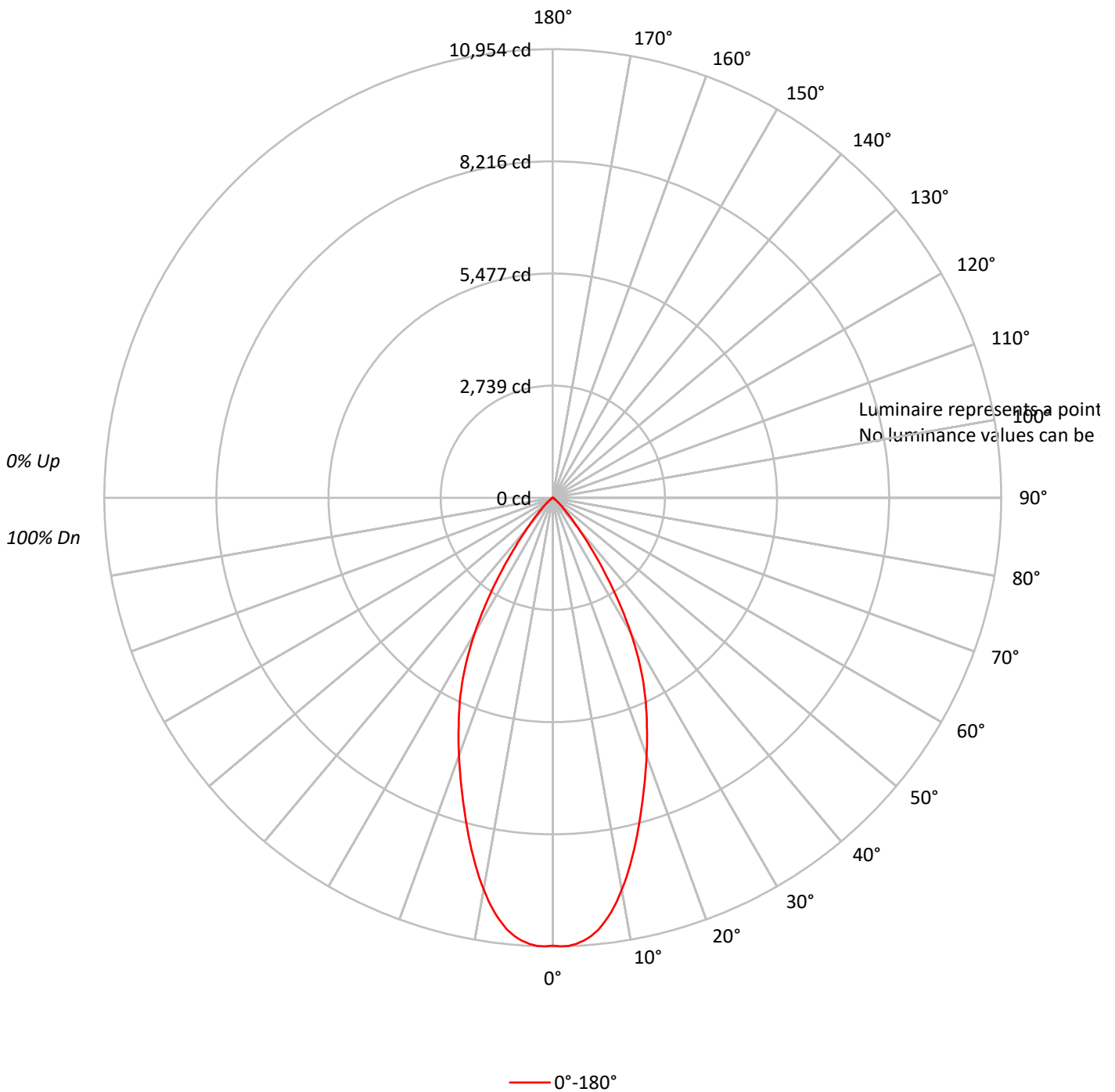
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94	94	94
2	108	104	100	97	106	102	99	96	99	96	93	96	94	91	93	91	90	88	88	88
3	103	97	92	89	101	96	91	88	93	89	86	91	88	85	89	86	84	82	82	82
4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	79	77	77	77
5	94	86	80	76	92	85	80	76	83	78	75	81	77	74	80	76	74	72	72	72
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68	68	68
7	85	76	71	67	84	76	70	66	74	70	66	73	69	66	72	68	65	64	64	64
8	81	72	66	63	80	72	66	62	71	66	62	70	65	62	69	65	62	60	60	60
9	78	68	63	59	77	68	63	59	67	62	59	66	62	58	65	61	58	57	57	57
10	74	65	59	56	73	65	59	56	64	59	56	63	59	55	62	58	55	54	54	54

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	992.3	13.2
10°-20°	2276.6	30.3
20°-30°	2418.7	32.2
30°-40°	1380.0	18.4
40°-50°	342.2	4.6
50°-60°	67.3	0.9
60°-70°	20.3	0.3
70°-80°	4.8	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°	5687.6	75.8
0°-40°	7067.5	94.2
0°-60°	7477.0	99.6
0°-90°	7506.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7506.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	10933	
5°	10739	992
15°	8179	2277
25°	5340	2419
35°	2158	1380
45°	387	342
55°	63	67
65°	16	20
75°	0	5
85°	5	4
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	10932.6
1°	10953.7
2°	10945.8
3°	10906.5
4°	10838.7
5°	10739.4
6°	10608.9
7°	10428.5
8°	10222.1
9°	9979.2
10°	9712.7
11°	9430.6
12°	9127.6
13°	8819.3
14°	8503.2
15°	8179.2
16°	7873.6
17°	7565.4
18°	7275.4
19°	6980.3
20°	6700.7
22.5°	6008.4
25°	5339.6
27.5°	4621.3
30°	3827.1
32.5°	2975.4
35°	2157.8
37.5°	1486.4
40°	961.4
42.5°	608.7
45°	386.7
47.5°	253.5
50°	159.4
52.5°	96.8
55°	62.7
57.5°	49.6
60°	31.3
62.5°	28.7
65°	15.8
67.5°	15.8
70°	13.0
72.5°	7.9
75°	0.0
77.5°	2.6
80°	2.6



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**CANDELA DISTRIBUTION (continued):**

	0°
82.5°	5.3
85°	5.3
87.5°	2.6
90°	0.0

(END OF REPORT)