

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 EC8B1009727 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 EC8B1009727 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: 7000.0 lumens
Efficiency: N/A
Efficacy: 65.9 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

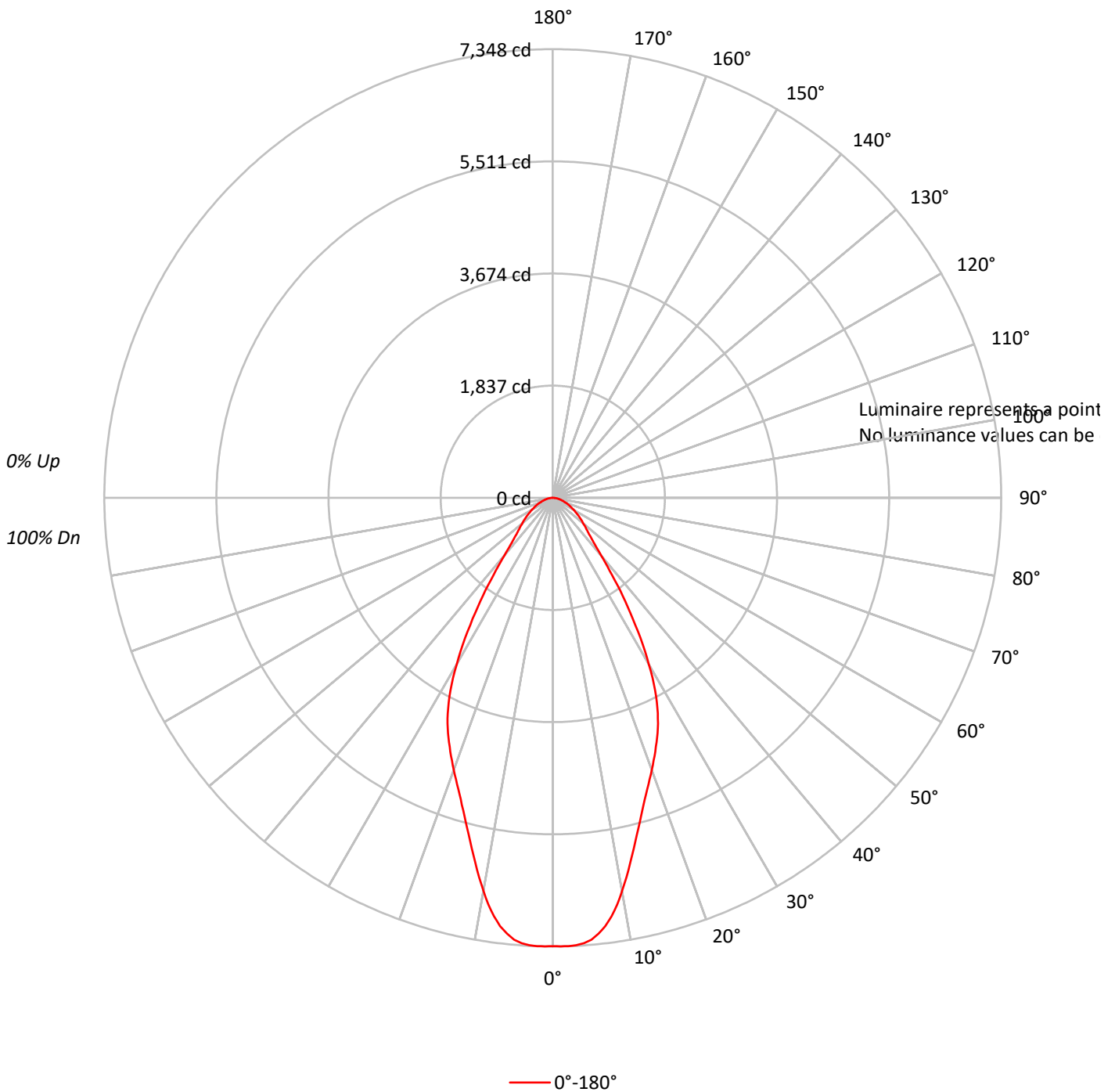
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	670.4	9.6
10°-20°	1546.9	22.1
20°-30°	1843.6	26.3
30°-40°	1301.4	18.6
40°-50°	672.1	9.6
50°-60°	461.2	6.6
60°-70°	299.8	4.3
70°-80°	157.0	2.2
80°-90°	47.7	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°	4060.9	58.0
0°-40°	5362.3	76.6
0°-60°	6495.5	92.8
0°-90°	7000.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7000.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7344	
5°	7264	670
15°	5501	1547
25°	4081	1844
35°	2068	1301
45°	840	672
55°	512	461
65°	302	300
75°	145	157
85°	40	48
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	7343.9
1°	7348.4
2°	7348.4
3°	7337.2
4°	7312.7
5°	7263.5
6°	7176.4
7°	7069.2
8°	6921.7
9°	6743.1
10°	6542.1
11°	6329.9
12°	6108.7
13°	5896.6
14°	5691.1
15°	5501.3
16°	5324.8
17°	5161.8
18°	5014.3
19°	4875.8
20°	4741.8
21°	4610.0
22°	4480.5
23°	4351.0
24°	4219.2
25°	4080.7
26°	3924.3
27°	3754.6
28°	3569.2
29°	3372.7
30°	3149.3
31°	2932.7
32°	2711.5
33°	2483.7
34°	2273.7
35°	2068.3
37.5°	1592.6
40°	1226.3
42.5°	987.3
45°	839.8
47.5°	734.8
50°	652.2
52.5°	580.7
55°	511.5
57.5°	449.0



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CANDELA DISTRIBUTION (continued):

	0°
60°	397.6
62.5°	346.2
65°	301.5
67.5°	261.3
70°	210.0
72.5°	181.0
75°	145.2
77.5°	118.3
80°	91.5
82.5°	67.0
85°	40.2
87.5°	22.3
90°	0.0

(END OF REPORT)