

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: P250695

Luminaire Tested: **LSR8B90D010 EC8B90927 8LBN0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250695
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 EC8B90927 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: 6825.4 lumens
Efficiency: N/A
Efficacy: 79.3 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

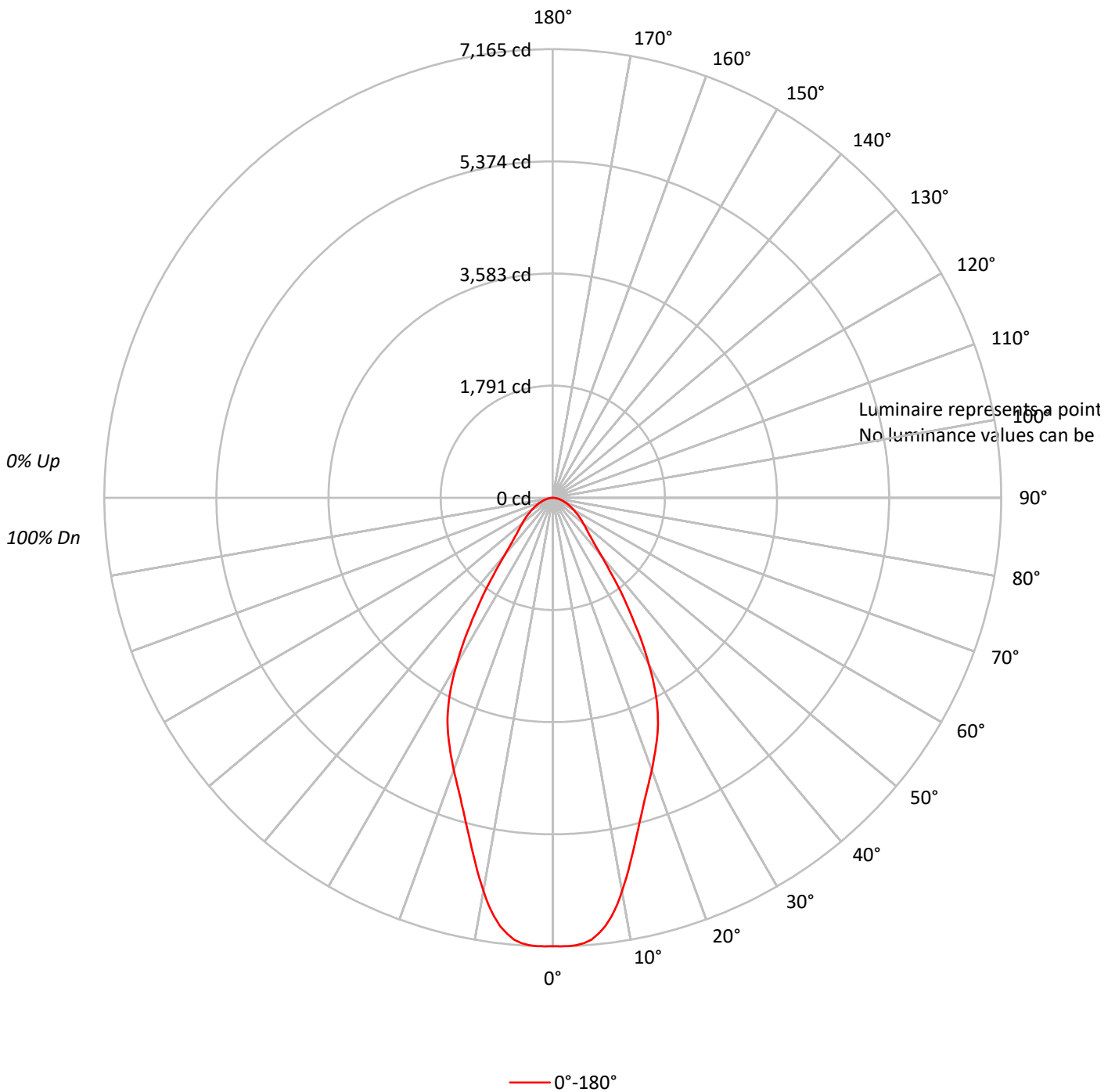
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	653.7	9.6
10°-20°	1508.3	22.1
20°-30°	1797.6	26.3
30°-40°	1268.9	18.6
40°-50°	655.3	9.6
50°-60°	449.7	6.6
60°-70°	292.4	4.3
70°-80°	153.0	2.2
80°-90°	46.5	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°	3959.6	58.0
0°-40°	5228.5	76.6
0°-60°	6333.5	92.8
0°-90°	6825.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6825.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7161	
5°	7082	654
15°	5364	1508
25°	3979	1798
35°	2017	1269
45°	819	655
55°	499	450
65°	294	292
75°	142	153
85°	39	47
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	7160.7
1°	7165.1
2°	7165.1
3°	7154.2
4°	7130.2
5°	7082.3
6°	6997.4
7°	6892.9
8°	6749.1
9°	6575.0
10°	6378.9
11°	6172.0
12°	5956.3
13°	5749.5
14°	5549.2
15°	5364.0
16°	5192.0
17°	5033.0
18°	4889.2
19°	4754.2
20°	4623.5
21°	4495.0
22°	4368.7
23°	4242.5
24°	4114.0
25°	3978.9
26°	3826.5
27°	3660.9
28°	3480.2
29°	3288.6
30°	3070.7
31°	2859.5
32°	2643.9
33°	2421.7
34°	2217.0
35°	2016.7
37.5°	1552.8
40°	1195.6
42.5°	962.7
45°	818.9
47.5°	716.5
50°	636.0
52.5°	566.2
55°	498.7
57.5°	437.7



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CANDELA DISTRIBUTION (continued):

	0°
60°	387.7
62.5°	337.6
65°	294.0
67.5°	254.8
70°	204.8
72.5°	176.4
75°	141.6
77.5°	115.4
80°	89.2
82.5°	65.4
85°	39.3
87.5°	21.7
90°	0.0

(END OF REPORT)