

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: P250114

Luminaire Tested: **LSR8B90D010 EC8B90930 8LBN0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250114
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 EC8B90930 8LBN0WH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7232.8 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.66
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

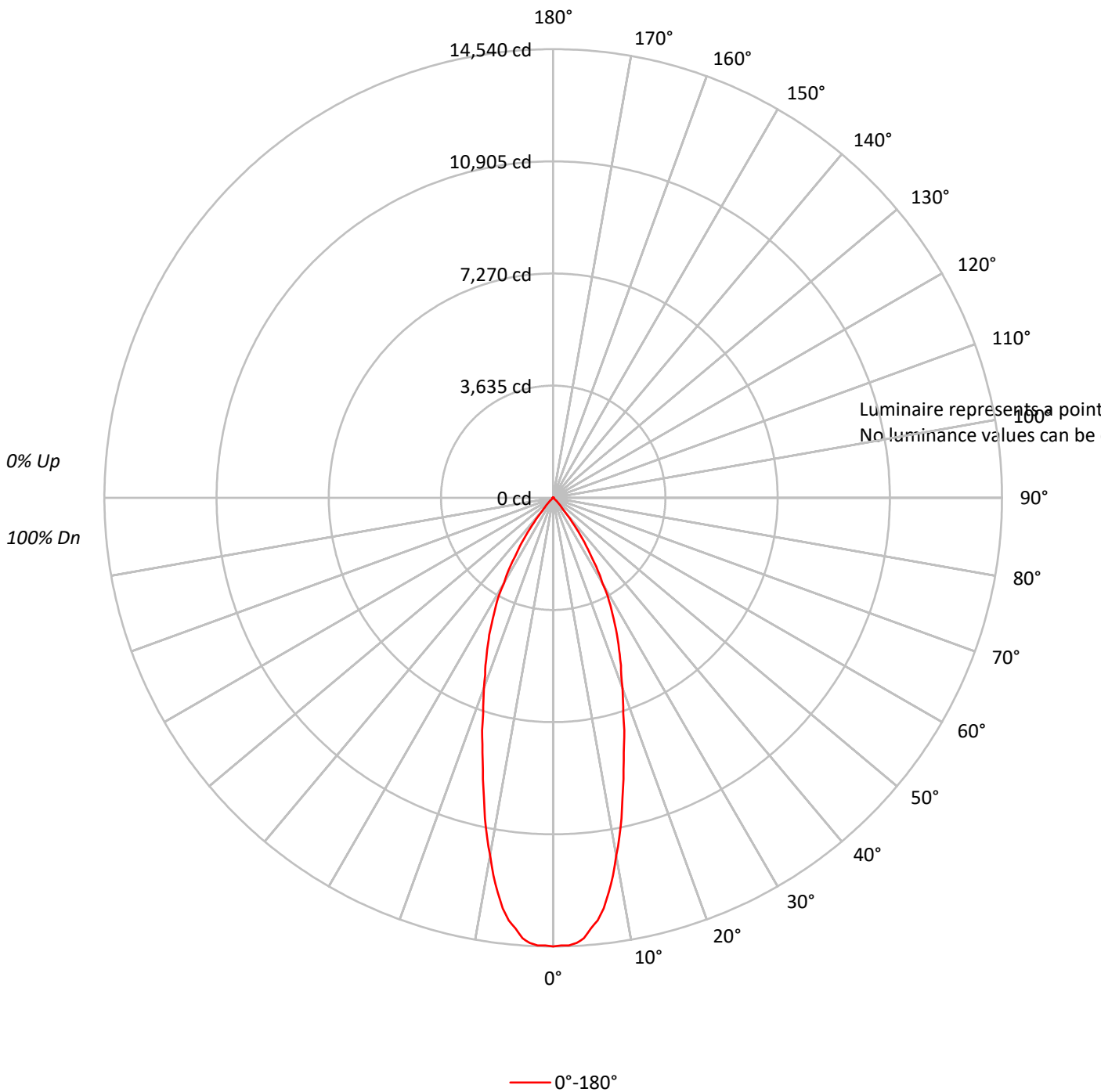
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1269.8	17.6
10°-20°	2460.6	34.0
20°-30°	2215.3	30.6
30°-40°	1096.1	15.2
40°-50°	166.7	2.3
50°-60°	6.9	0.1
60°-70°	8.8	0.1
70°-80°	3.3	0.0
80°-90°	5.2	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°	5945.8	82.2
0°-40°	7041.8	97.4
0°-60°	7215.4	99.8
0°-90°	7232.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7232.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14540	
5°	14007	###
15°	8816	2461
25°	4899	2215
35°	1774	1096
45°	184	167
55°	3	7
65°	5	9
75°	5	3
85°	8	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	14539.5
1°	14509.2
2°	14516.7
3°	14443.5
4°	14309.8
5°	14007.0
6°	13774.7
7°	13406.4
8°	12911.7
9°	12396.8
10°	11775.9
11°	11220.6
12°	10625.1
13°	9966.4
14°	9398.6
15°	8815.5
16°	8318.3
17°	7879.2
18°	7339.1
19°	6942.8
20°	6554.3
21°	6150.4
22°	5855.1
23°	5512.0
24°	5196.4
25°	4898.7
26°	4547.8
27°	4232.4
28°	3949.7
29°	3639.2
30°	3192.6
31°	2940.3
32°	2622.2
33°	2273.8
34°	2008.9
35°	1774.2
37.5°	1123.0
40°	507.4
42.5°	345.7
45°	184.2
47.5°	103.5
50°	2.6
52.5°	10.1
55°	2.6
57.5°	15.1



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CANDELA DISTRIBUTION (continued):

	0°
60°	2.6
62.5°	12.7
65°	5.0
67.5°	12.7
70°	7.6
72.5°	2.6
75°	5.0
77.5°	0.0
80°	2.6
82.5°	10.1
85°	7.6
87.5°	0.0
90°	0.0

(END OF REPORT)