

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: P250702

Luminaire Tested: **LSR8B90D010 EC8B909730 8LBN0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250702
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 EC8B909730 8LBN0MW
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6418.9 lumens
Efficiency: N/A
Efficacy: 74.6 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

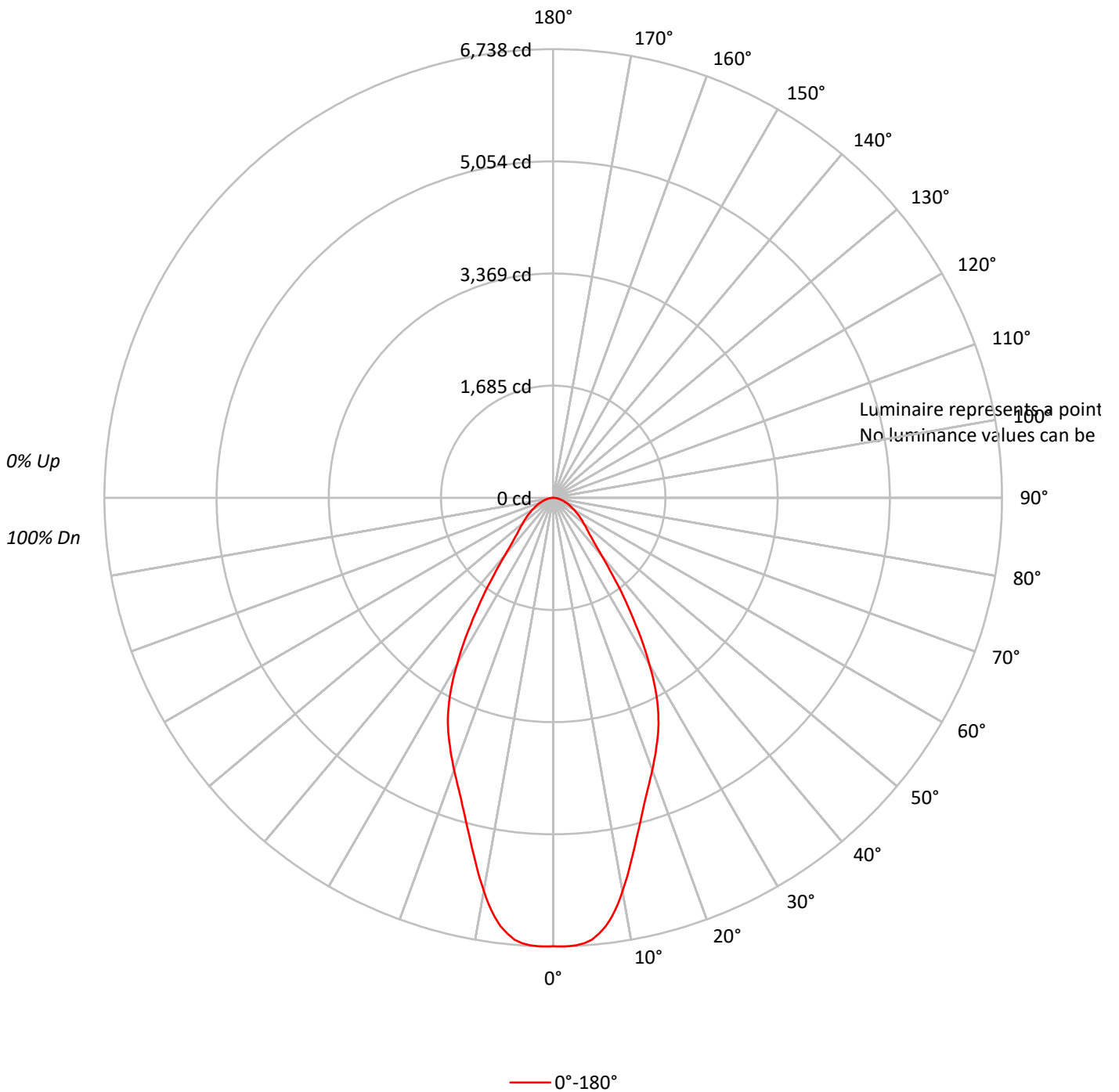
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	614.8	9.6
10°-20°	1418.5	22.1
20°-30°	1690.6	26.3
30°-40°	1193.4	18.6
40°-50°	616.3	9.6
50°-60°	422.9	6.6
60°-70°	274.9	4.3
70°-80°	143.9	2.2
80°-90°	43.7	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°	3723.8	58.0
0°-40°	4917.2	76.6
0°-60°	5956.4	92.8
0°-90°	6418.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6418.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6734	
5°	6661	615
15°	5045	1418
25°	3742	1691
35°	1897	1193
45°	770	616
55°	469	423
65°	276	275
75°	133	144
85°	37	44
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	6734.4
1°	6738.5
2°	6738.5
3°	6728.2
4°	6705.7
5°	6660.6
6°	6580.8
7°	6482.5
8°	6347.2
9°	6183.5
10°	5999.1
11°	5804.5
12°	5601.7
13°	5407.2
14°	5218.7
15°	5044.7
16°	4882.9
17°	4733.3
18°	4598.1
19°	4471.1
20°	4348.2
21°	4227.4
22°	4108.6
23°	3989.9
24°	3869.0
25°	3742.0
26°	3598.6
27°	3442.9
28°	3273.0
29°	3092.8
30°	2887.9
31°	2689.3
32°	2486.4
33°	2277.5
34°	2085.0
35°	1896.6
37.5°	1460.4
40°	1124.5
42.5°	905.3
45°	770.1
47.5°	673.8
50°	598.1
52.5°	532.5
55°	469.0
57.5°	411.7



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CANDELA DISTRIBUTION (continued):

	0°
60°	364.6
62.5°	317.5
65°	276.5
67.5°	239.6
70°	192.5
72.5°	165.9
75°	133.2
77.5°	108.5
80°	83.9
82.5°	61.4
85°	36.9
87.5°	20.5
90°	0.0

(END OF REPORT)