

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 EC8B909727 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 EC8B909727 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: 6067.0 lumens
Efficiency: N/A
Efficacy: 70.5 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

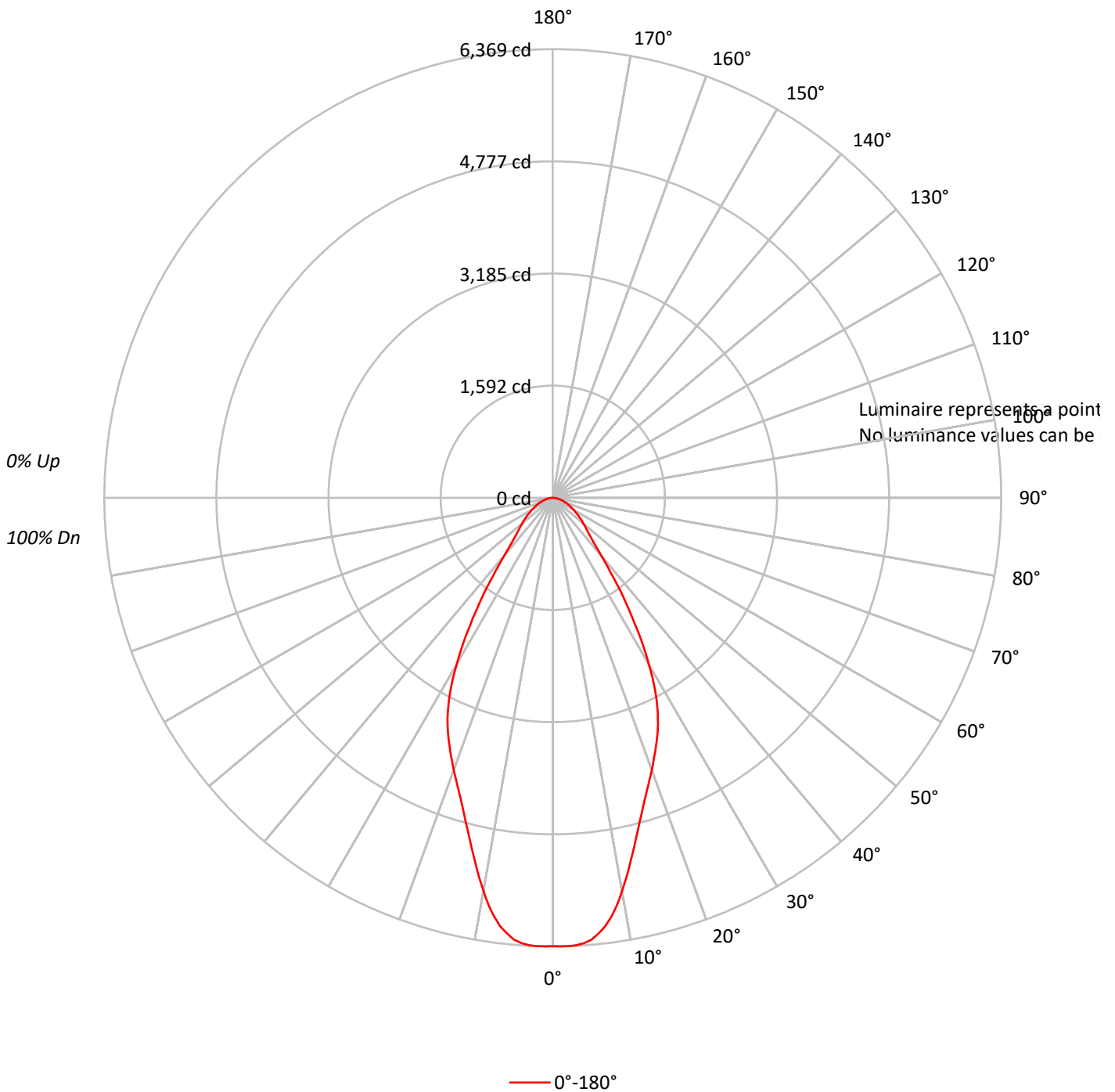
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	581.0	9.6
10°-20°	1340.7	22.1
20°-30°	1597.9	26.3
30°-40°	1127.9	18.6
40°-50°	582.5	9.6
50°-60°	399.7	6.6
60°-70°	259.9	4.3
70°-80°	136.1	2.2
80°-90°	41.3	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°	3519.6	58.0
0°-40°	4647.5	76.6
0°-60°	5629.7	92.8
0°-90°	6067.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6067.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6365	
5°	6295	581
15°	4768	1341
25°	3537	1598
35°	1793	1128
45°	728	583
55°	443	400
65°	261	260
75°	126	136
85°	35	41
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	6365.1
1°	6369.0
2°	6369.0
3°	6359.3
4°	6338.0
5°	6295.4
6°	6219.9
7°	6127.0
8°	5999.2
9°	5844.4
10°	5670.1
11°	5486.2
12°	5294.5
13°	5110.7
14°	4932.6
15°	4768.0
16°	4615.1
17°	4473.8
18°	4346.0
19°	4226.0
20°	4109.8
21°	3995.6
22°	3883.3
23°	3771.1
24°	3656.9
25°	3536.8
26°	3401.3
27°	3254.1
28°	3093.5
29°	2923.2
30°	2729.5
31°	2541.8
32°	2350.1
33°	2152.6
34°	1970.7
35°	1792.6
37.5°	1380.3
40°	1062.8
42.5°	855.7
45°	727.9
47.5°	636.9
50°	565.3
52.5°	503.3
55°	443.3
57.5°	389.1



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CANDELA DISTRIBUTION (continued):

	0°
60°	344.6
62.5°	300.1
65°	261.3
67.5°	226.5
70°	182.0
72.5°	156.8
75°	125.9
77.5°	102.6
80°	79.3
82.5°	58.1
85°	34.9
87.5°	19.3
90°	0.0

(END OF REPORT)