

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: P246738

Luminaire Tested: **LSR8B10D010 EC8B109727 8LBM0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246738
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201674)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B10D010 EC8B109727 8LBM0MW
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 787.0 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.93
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

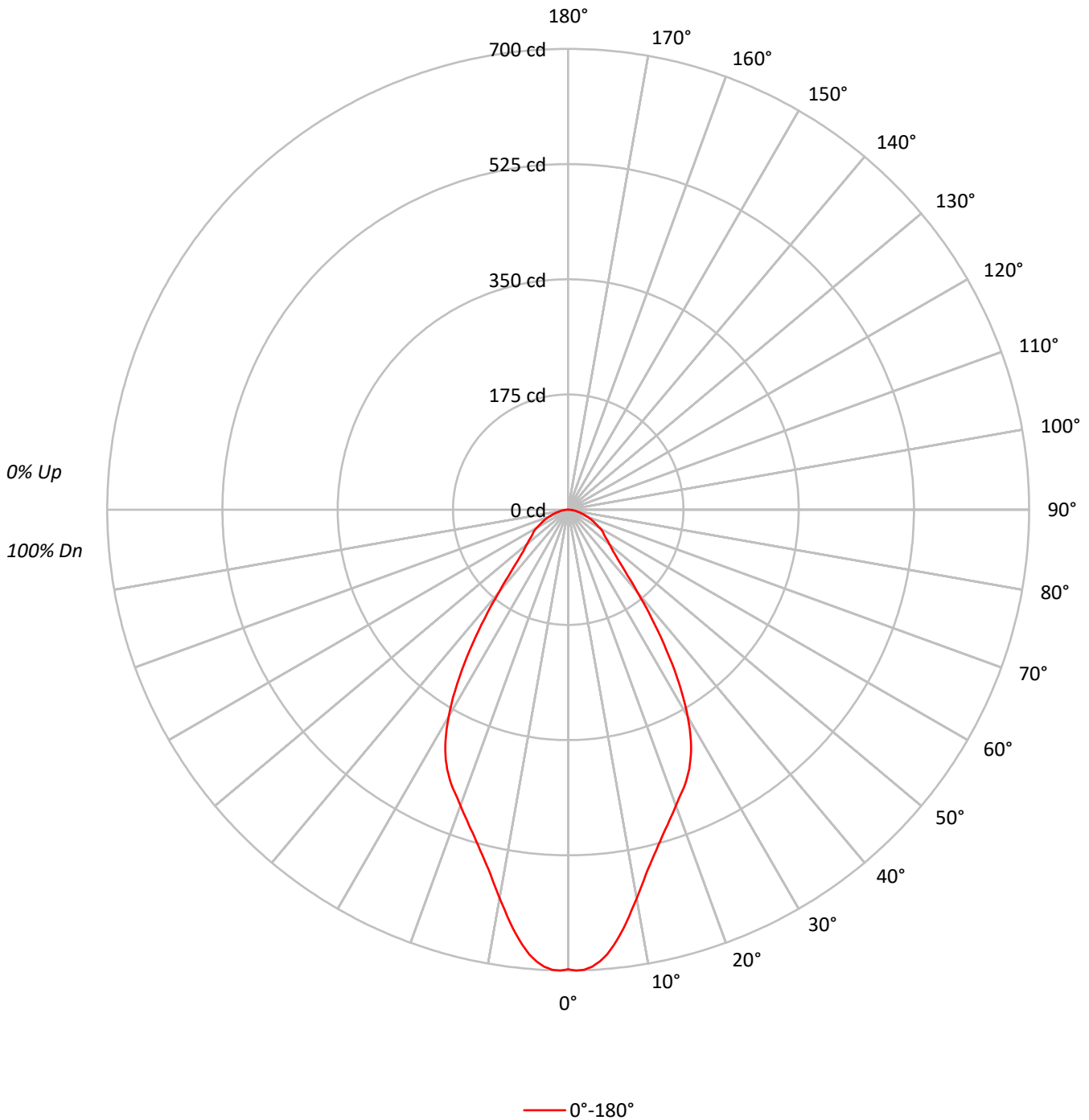
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	71
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46
9	67	56	49	44	66	56	49	44	54	48	44	54	48	44	53	48	44	42
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	21527
5°	20981
10°	18759
15°	16856
20°	15699
25°	14790
30°	12929
35°	9799
40°	6582
45°	4640
50°	3934
55°	3586
60°	3398
65°	3057
70°	2750
75°	2478
80°	2184
85°	2087



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.0	7.9
10°-20°	148.9	18.9
20°-30°	197.3	25.1
30°-40°	161.8	20.6
40°-50°	86.2	11.0
50°-60°	60.7	7.7
60°-70°	41.8	5.3
70°-80°	21.8	2.8
80°-90°	6.5	0.8
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°	408.3	51.9
0°-40°	570.1	72.4
0°-60°	716.9	91.1
0°-90°	787.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	787.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	698	
5°	678	62
15°	528	149
25°	435	197
35°	260	162
45°	106	86
55°	67	61
65°	42	42
75°	21	22
85°	6	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	698.1
1°	700.1
2°	699.3
3°	695.1
4°	688.0
5°	677.8
6°	665.1
7°	649.8
8°	633.4
9°	615.9
10°	599.1
11°	582.9
12°	566.5
13°	552.8
14°	539.9
15°	528.0
16°	516.9
17°	506.6
18°	497.0
19°	487.5
20°	478.4
21°	469.5
22°	461.7
23°	453.8
24°	444.5
25°	434.7
26°	423.5
27°	411.0
28°	396.8
29°	381.1
30°	363.1
31°	344.3
32°	324.4
33°	303.3
34°	282.1
35°	260.3
37.5°	208.5
40°	163.5
42.5°	129.1
45°	106.4
47.5°	91.3
50°	82.0
52.5°	73.8
55°	66.7
57.5°	62.4



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CANDELA DISTRIBUTION (continued):

	0°
60°	55.1
62.5°	48.0
65°	41.9
67.5°	36.4
70°	30.5
72.5°	25.5
75°	20.8
77.5°	15.0
80°	12.3
82.5°	8.9
85°	5.9
87.5°	2.8
90°	0.0

(END OF REPORT)