

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: P250780

Luminaire Tested: **LSR8B100D010 EC8B1009727 8LBM0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250780
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13935)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B1009727 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: 7557.1 lumens
Efficiency: N/A
Efficacy: 71.1 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.93
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

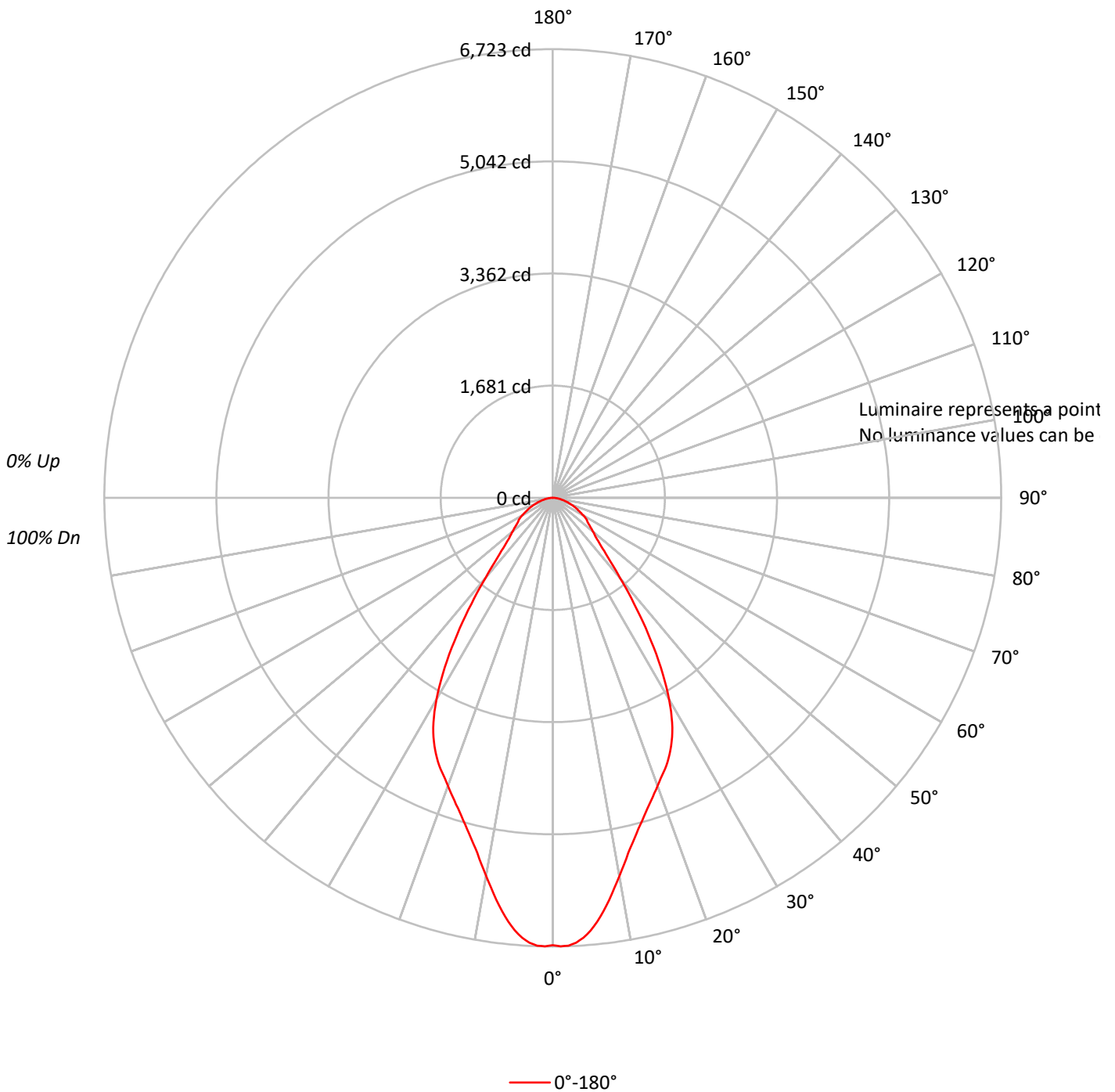
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	595.8	7.9
10°-20°	1429.9	18.9
20°-30°	1894.9	25.1
30°-40°	1553.8	20.6
40°-50°	827.6	11.0
50°-60°	582.5	7.7
60°-70°	401.7	5.3
70°-80°	209.2	2.8
80°-90°	61.9	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°	3920.5	51.9
0°-40°	5474.3	72.4
0°-60°	6884.3	91.1
0°-90°	7557.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7557.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6703	
5°	6509	596
15°	5070	1430
25°	4174	1895
35°	2499	1554
45°	1021	828
55°	641	582
65°	402	402
75°	199	209
85°	57	62
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	6703.4
1°	6723.1
2°	6714.4
3°	6675.0
4°	6607.3
5°	6508.8
6°	6386.4
7°	6239.9
8°	6082.5
9°	5914.1
10°	5752.4
11°	5597.1
12°	5439.7
13°	5308.5
14°	5183.9
15°	5070.2
16°	4963.1
17°	4864.7
18°	4772.8
19°	4681.0
20°	4593.6
21°	4508.3
22°	4434.0
23°	4357.4
24°	4267.8
25°	4173.8
26°	4066.7
27°	3946.4
28°	3810.9
29°	3660.0
30°	3487.3
31°	3305.8
32°	3115.6
33°	2912.3
34°	2708.9
35°	2499.0
37.5°	2002.7
40°	1569.8
42.5°	1239.7
45°	1021.0
47.5°	876.8
50°	787.1
52.5°	708.4
55°	640.6
57.5°	599.1



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CANDELA DISTRIBUTION (continued):

	0°
60°	529.1
62.5°	461.3
65°	402.3
67.5°	349.8
70°	293.0
72.5°	244.9
75°	199.0
77.5°	144.3
80°	118.1
82.5°	85.3
85°	56.9
87.5°	26.2
90°	0.0

(END OF REPORT)