

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: P250781

Luminaire Tested: **LSR8B120D010 EC8B1209727 8LBM0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250781
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: LSR8B120D010 EC8B1209727 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: 8567.0 lumens
Efficiency: N/A
Efficacy: 72.4 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

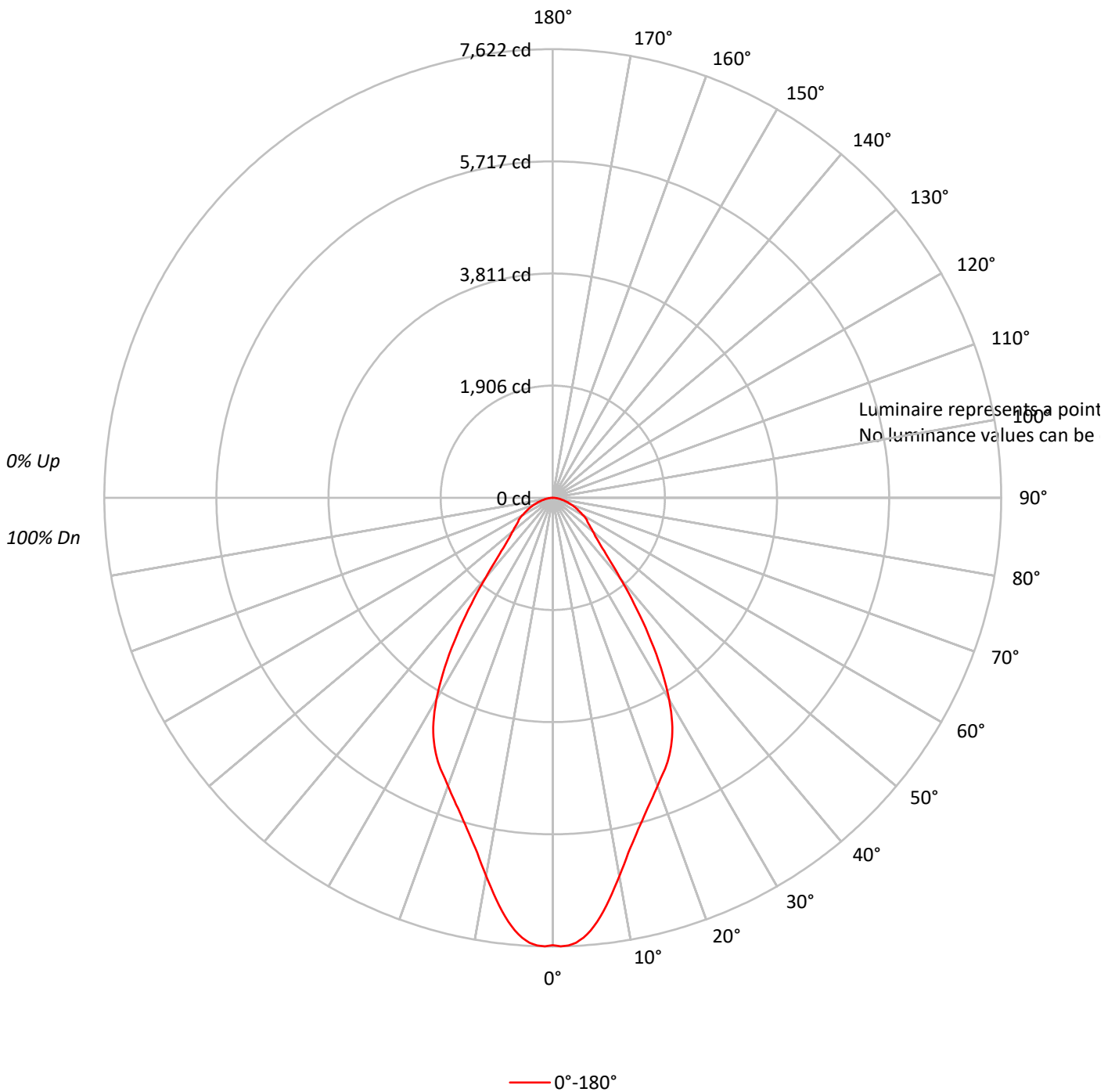
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	675.4	7.9
10°-20°	1621.0	18.9
20°-30°	2148.1	25.1
30°-40°	1761.5	20.6
40°-50°	938.2	11.0
50°-60°	660.3	7.7
60°-70°	455.4	5.3
70°-80°	237.1	2.8
80°-90°	70.1	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°	4444.5	51.9
0°-40°	6205.9	72.4
0°-60°	7804.4	91.1
0°-90°	8567.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8567.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7599	
5°	7379	675
15°	5748	1621
25°	4732	2148
35°	2833	1761
45°	1158	938
55°	726	660
65°	456	455
75°	226	237
85°	64	70
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	7599.4
1°	7621.7
2°	7611.7
3°	7567.1
4°	7490.3
5°	7378.7
6°	7240.0
7°	7073.9
8°	6895.4
9°	6704.6
10°	6521.2
11°	6345.2
12°	6166.7
13°	6018.0
14°	5876.7
15°	5747.9
16°	5626.4
17°	5514.9
18°	5410.7
19°	5306.7
20°	5207.5
21°	5110.8
22°	5026.6
23°	4939.8
24°	4838.2
25°	4731.6
26°	4610.2
27°	4473.9
28°	4320.2
29°	4149.2
30°	3953.3
31°	3747.6
32°	3532.0
33°	3301.5
34°	3071.0
35°	2833.0
37.5°	2270.4
40°	1779.6
42.5°	1405.4
45°	1157.5
47.5°	993.9
50°	892.3
52.5°	803.1
55°	726.2
57.5°	679.1



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CANDELA DISTRIBUTION (continued):

	0°
60°	599.8
62.5°	523.0
65°	456.1
67.5°	396.6
70°	332.1
72.5°	277.6
75°	225.5
77.5°	163.6
80°	133.8
82.5°	96.7
85°	64.5
87.5°	29.7
90°	0.0

(END OF REPORT)