

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: P250648

Luminaire Tested: **LSR8B120D010 EC8B120840 8LBN0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250648
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: LSR8B120D010 EC8B120840 8LBN0MW
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11322.0 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.85
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

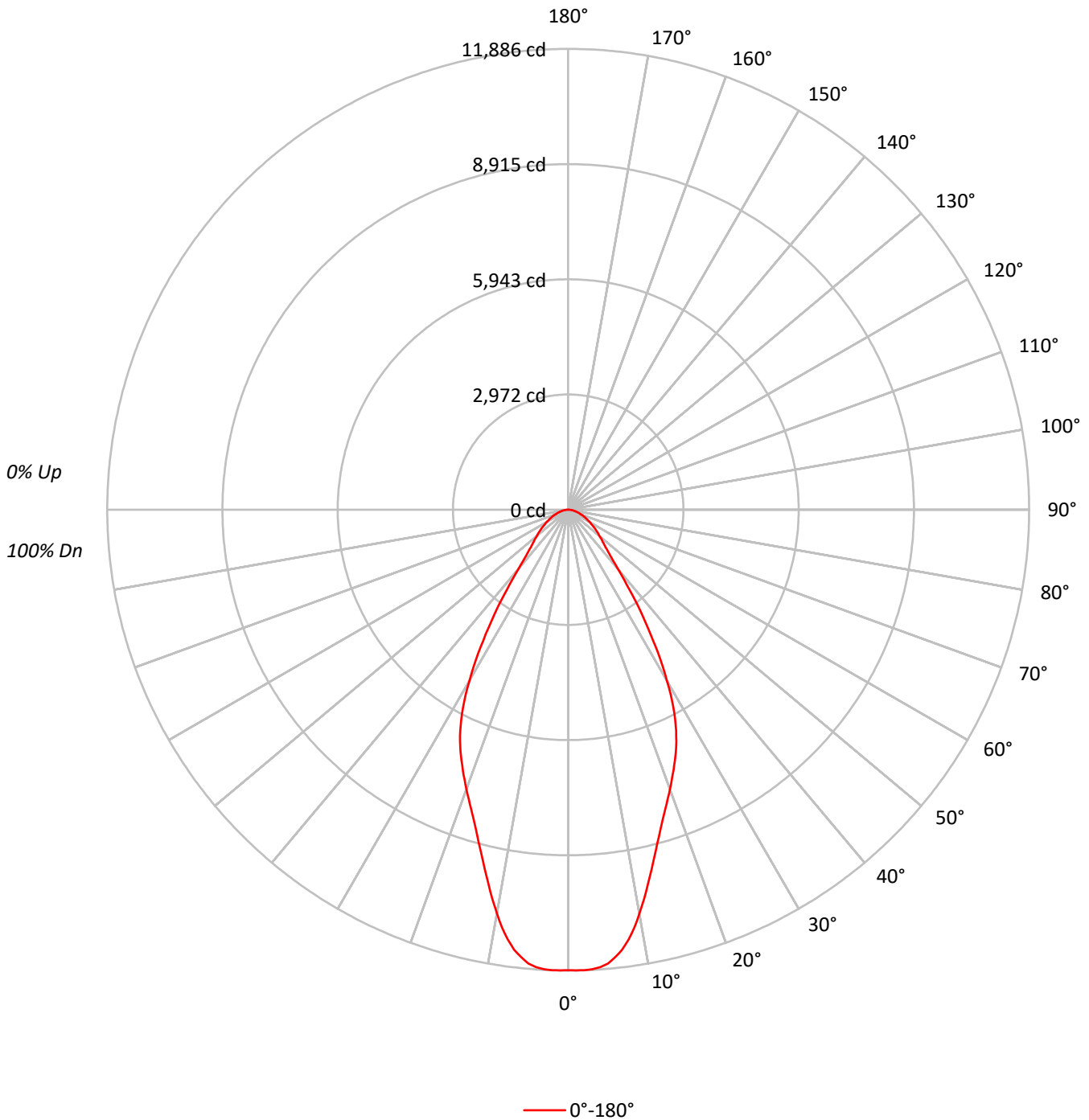
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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):

	0°
0°	366283
5°	363655
10°	331325
15°	284057
20°	251680
25°	224569
30°	181370
35°	125935
40°	79840
45°	59234
50°	50606
55°	44477
60°	39656
65°	35585
70°	30618
75°	27987
80°	26299
85°	23033



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1084.3	9.6
10°-20°	2501.9	22.1
20°-30°	2981.9	26.3
30°-40°	2104.9	18.6
40°-50°	1087.0	9.6
50°-60°	745.9	6.6
60°-70°	484.9	4.3
70°-80°	253.9	2.2
80°-90°	77.2	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°	6568.2	58.0
0°-40°	8673.0	76.6
0°-60°	10506.0	92.8
0°-90°	11322.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11322.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11878	
5°	11748	###
15°	8898	2502
25°	6600	2982
35°	3345	2105
45°	1358	1087
55°	827	746
65°	488	485
75°	235	254
85°	65	77
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	11878.3
1°	11885.5
2°	11885.5
3°	11867.4
4°	11827.7
5°	11748.2
6°	11607.4
7°	11433.9
8°	11195.4
9°	10906.5
10°	10581.4
11°	10238.2
12°	9880.4
13°	9537.3
14°	9205.0
15°	8897.9
16°	8612.5
17°	8348.8
18°	8110.3
19°	7886.3
20°	7669.6
21°	7456.4
22°	7246.9
23°	7037.4
24°	6824.3
25°	6600.3
26°	6347.3
27°	6072.7
28°	5773.0
29°	5455.1
30°	5093.7
31°	4743.4
32°	4385.6
33°	4017.2
34°	3677.6
35°	3345.4
37.5°	2575.8
40°	1983.4
42.5°	1596.8
45°	1358.3
47.5°	1188.5
50°	1054.9
52.5°	939.3
55°	827.3
57.5°	726.2



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CANDELA DISTRIBUTION (continued):

	0°
60°	643.0
62.5°	560.0
65°	487.7
67.5°	422.6
70°	339.6
72.5°	292.7
75°	234.9
77.5°	191.4
80°	148.1
82.5°	108.4
85°	65.1
87.5°	36.1
90°	0.0

(END OF REPORT)