

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: P250683

Luminaire Tested: **LSR8B120D010 EC8B120940 8LBN0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250683
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 EC8B120940 8LBN0MW
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10151.0 lumens
Efficiency: N/A
Efficacy: 85.8 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

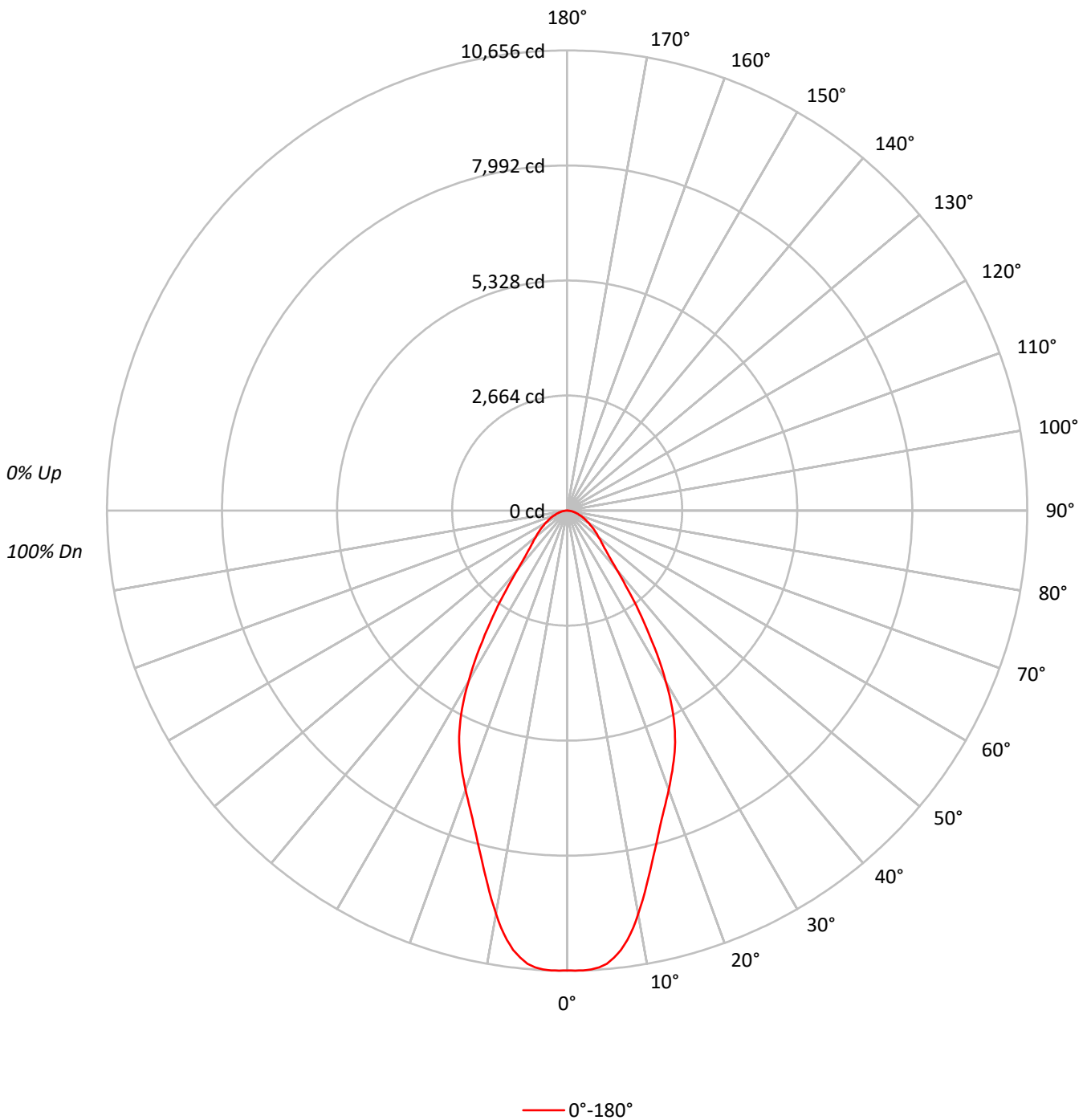
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	328401
5°	326043
10°	297057
15°	254681
20°	225648
25°	201341
30°	162612
35°	112910
40°	71584
45°	53107
50°	45373
55°	39880
60°	35554
65°	31908
70°	27454
75°	25091
80°	23583
85°	20627



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	972.2	9.6
10°-20°	2243.2	22.1
20°-30°	2673.5	26.3
30°-40°	1887.2	18.6
40°-50°	974.6	9.6
50°-60°	668.8	6.6
60°-70°	434.8	4.3
70°-80°	227.6	2.2
80°-90°	69.2	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°	5888.9	58.0
0°-40°	7776.0	76.6
0°-60°	9419.4	92.8
0°-90°	10151.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10151.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10650	
5°	10533	972
15°	7978	2243
25°	5918	2674
35°	2999	1887
45°	1218	975
55°	742	669
65°	437	435
75°	211	228
85°	58	69
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	10649.8
1°	10656.3
2°	10656.3
3°	10640.0
4°	10604.4
5°	10533.1
6°	10406.8
7°	10251.3
8°	10037.5
9°	9778.5
10°	9487.0
11°	9179.3
12°	8858.5
13°	8550.9
14°	8252.9
15°	7977.7
16°	7721.7
17°	7485.3
18°	7271.5
19°	7070.7
20°	6876.3
21°	6685.2
22°	6497.4
23°	6309.6
24°	6118.5
25°	5917.6
26°	5690.8
27°	5444.6
28°	5175.9
29°	4890.9
30°	4566.9
31°	4252.8
32°	3932.0
33°	3601.7
34°	3297.2
35°	2999.4
37.5°	2309.4
40°	1778.3
42.5°	1431.7
45°	1217.8
47.5°	1065.6
50°	945.8
52.5°	842.2
55°	741.8
57.5°	651.1



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CANDELA DISTRIBUTION (continued):

	0°
60°	576.5
62.5°	502.1
65°	437.3
67.5°	378.9
70°	304.5
72.5°	262.4
75°	210.6
77.5°	171.6
80°	132.8
82.5°	97.2
85°	58.3
87.5°	32.3
90°	0.0

(END OF REPORT)