

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: P250690

Luminaire Tested: **LSR8B120D010 EC8B120950 8LBN0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250690
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 EC8B120950 8LBN0MW
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10510.0 lumens
Efficiency: N/A
Efficacy: 88.8 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

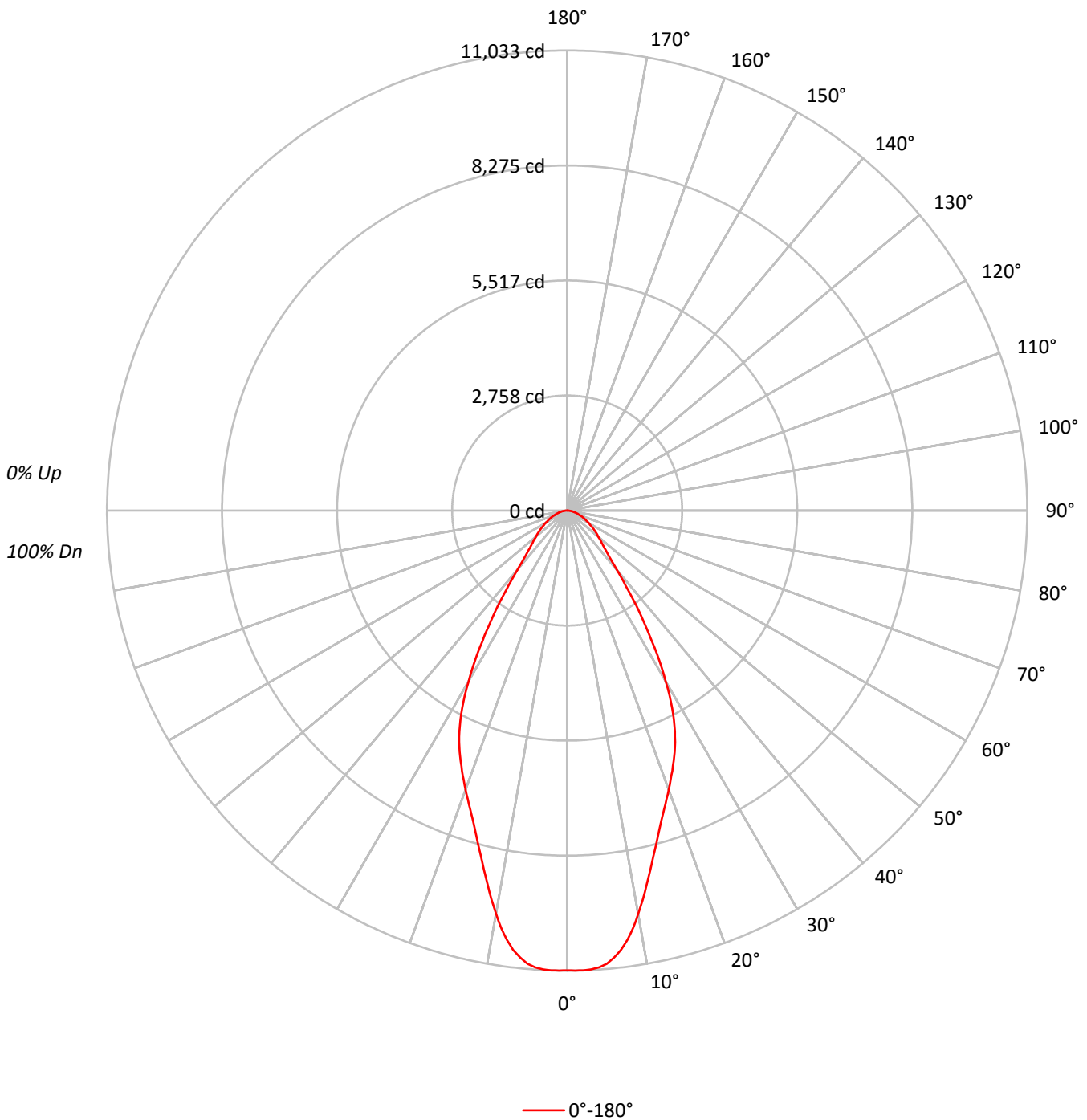
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	340014
5°	337573
10°	307562
15°	263687
20°	233629
25°	208462
30°	168363
35°	116900
40°	74112
45°	54987
50°	46980
55°	41289
60°	36812
65°	33031
70°	28427
75°	25973
80°	24417
85°	21370



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1006.6	9.6
10°-20°	2322.5	22.1
20°-30°	2768.1	26.3
30°-40°	1953.9	18.6
40°-50°	1009.1	9.6
50°-60°	692.5	6.6
60°-70°	450.2	4.3
70°-80°	235.7	2.2
80°-90°	71.6	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°	6097.1	58.0
0°-40°	8051.0	76.6
0°-60°	9752.5	92.8
0°-90°	10510.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10510.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11026	
5°	10906	###
15°	8260	2322
25°	6127	2768
35°	3105	1954
45°	1261	1009
55°	768	692
65°	453	450
75°	218	236
85°	60	72
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	11026.4
1°	11033.1
2°	11033.1
3°	11016.3
4°	10979.5
5°	10905.6
6°	10774.9
7°	10613.9
8°	10392.5
9°	10124.3
10°	9822.5
11°	9503.9
12°	9171.8
13°	8853.3
14°	8544.8
15°	8259.8
16°	7994.8
17°	7750.0
18°	7528.6
19°	7320.7
20°	7119.5
21°	6921.7
22°	6727.2
23°	6532.7
24°	6334.9
25°	6126.9
26°	5892.1
27°	5637.2
28°	5358.9
29°	5063.8
30°	4728.4
31°	4403.2
32°	4071.1
33°	3729.1
34°	3413.8
35°	3105.4
37.5°	2391.1
40°	1841.1
42.5°	1482.3
45°	1260.9
47.5°	1103.3
50°	979.3
52.5°	872.0
55°	768.0
57.5°	674.1



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CANDELA DISTRIBUTION (continued):

	0°
60°	596.9
62.5°	519.8
65°	452.7
67.5°	392.3
70°	315.3
72.5°	271.7
75°	218.0
77.5°	177.7
80°	137.5
82.5°	100.6
85°	60.4
87.5°	33.5
90°	0.0

(END OF REPORT)