

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: P250767

Luminaire Tested: **LSR8B120D010 EC8B120940 8LBM0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250767
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 EC8B120940 8LBM0MW
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10959.0 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.93
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

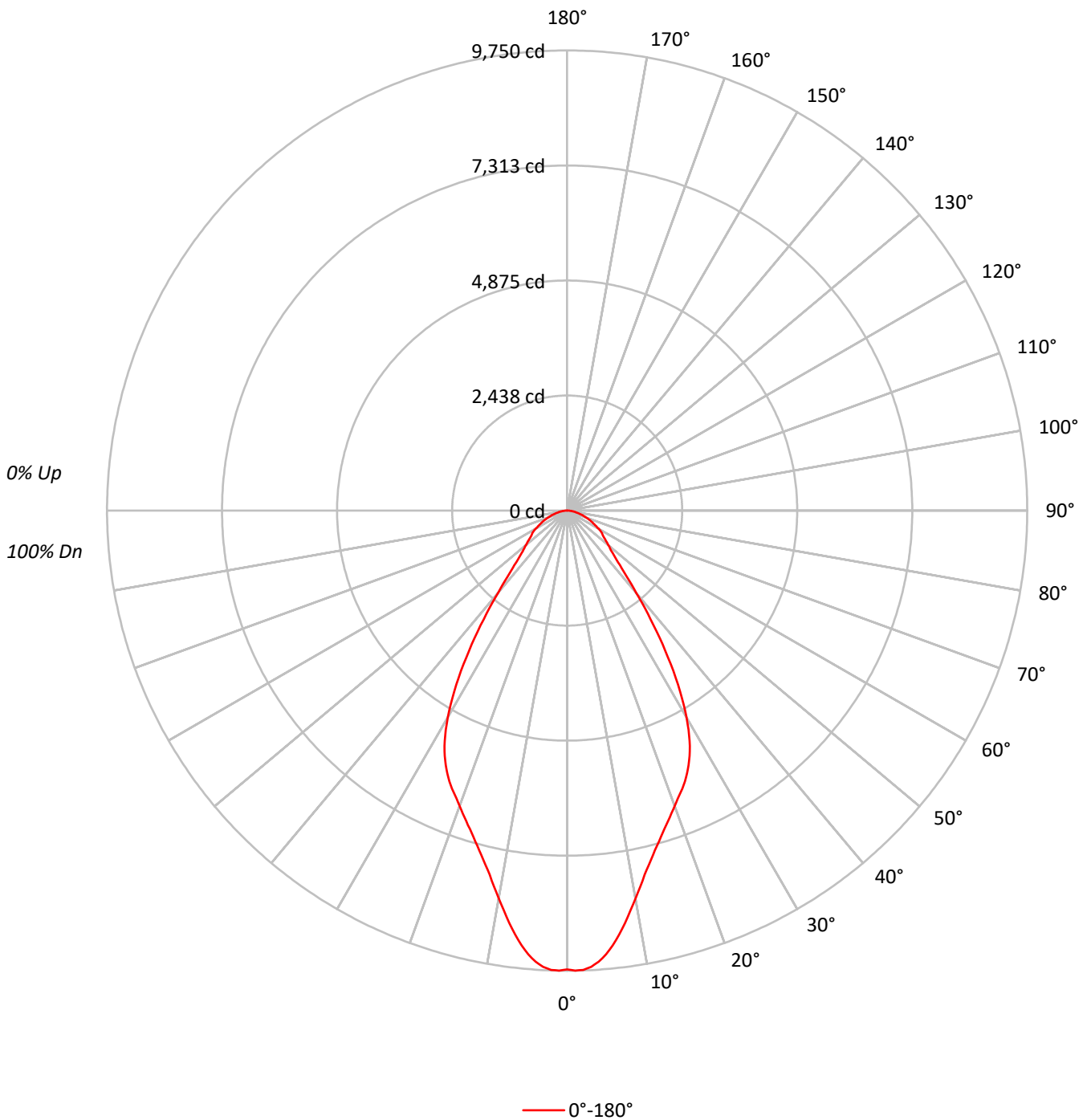
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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):

	0°
0°	299766
5°	292176
10°	261205
15°	234728
20°	218599
25°	205938
30°	180067
35°	136423
40°	91638
45°	64572
50°	54756
55°	49944
60°	47321
65°	42568
70°	38300
75°	34373
80°	30402
85°	29189



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	863.9	7.9
10°-20°	2073.6	18.9
20°-30°	2747.9	25.1
30°-40°	2253.3	20.6
40°-50°	1200.1	11.0
50°-60°	844.7	7.7
60°-70°	582.5	5.3
70°-80°	303.3	2.8
80°-90°	89.7	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°	5685.4	51.9
0°-40°	7938.7	72.4
0°-60°	9983.5	91.1
0°-90°	10959.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10959.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9721	
5°	9439	864
15°	7353	2074
25°	6053	2748
35°	3624	2253
45°	1481	1200
55°	929	845
65°	583	582
75°	288	303
85°	82	90
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	9721.2
1°	9749.7
2°	9737.0
3°	9679.9
4°	9581.7
5°	9439.0
6°	9261.5
7°	9049.0
8°	8820.7
9°	8576.6
10°	8342.0
11°	8116.8
12°	7888.5
13°	7698.3
14°	7517.6
15°	7352.7
16°	7197.4
17°	7054.7
18°	6921.5
19°	6788.3
20°	6661.5
21°	6537.8
22°	6430.1
23°	6319.1
24°	6189.1
25°	6052.7
26°	5897.4
27°	5723.0
28°	5526.4
29°	5307.7
30°	5057.1
31°	4794.0
32°	4518.2
33°	4223.3
34°	3928.4
35°	3624.0
37.5°	2904.3
40°	2276.5
42.5°	1797.8
45°	1480.7
47.5°	1271.5
50°	1141.4
52.5°	1027.3
55°	929.0
57.5°	868.7



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CANDELA DISTRIBUTION (continued):

	0°
60°	767.3
62.5°	669.0
65°	583.4
67.5°	507.3
70°	424.8
72.5°	355.1
75°	288.5
77.5°	209.2
80°	171.2
82.5°	123.7
85°	82.5
87.5°	38.0
90°	0.0

(END OF REPORT)