

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: P250774

Luminaire Tested: **LSR8B120D010 EC8B120950 8LBM0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250774  
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 EC8B120950 8LBM0MW  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 5000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11346.0 lumens  
Efficiency: N/A  
Efficacy: 95.9 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

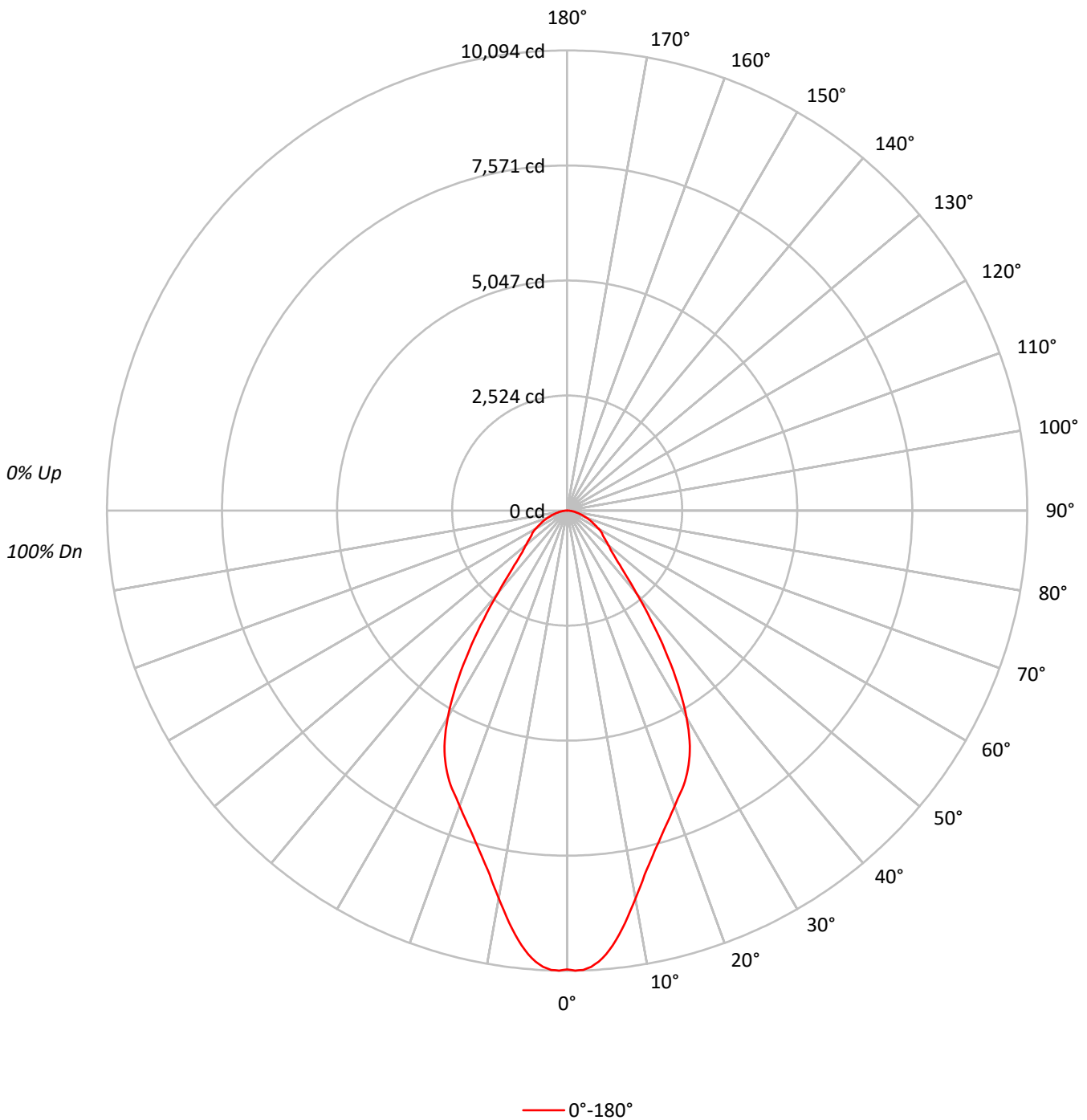
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	310352
5°	302493
10°	270429
15°	243019
20°	226317
25°	213212
30°	186426
35°	141241
40°	94875
45°	66853
50°	56689
55°	51708
60°	48993
65°	44071
70°	39652
75°	35588
80°	31485
85°	30215



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	894.5	7.9
10°-20°	2146.8	18.9
20°-30°	2844.9	25.1
30°-40°	2332.9	20.6
40°-50°	1242.5	11.0
50°-60°	874.5	7.7
60°-70°	603.0	5.3
70°-80°	314.0	2.8
80°-90°	92.9	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°	5886.2	51.9
0°-40°	8219.1	72.4
0°-60°	10336.0	91.1
0°-90°	11346.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11346.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	10064	
5°	9772	894
15°	7612	2147
25°	6266	2845
35°	3752	2333
45°	1533	1243
55°	962	874
65°	604	603
75°	299	314
85°	85	93
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	10064.5
1°	10094.0
2°	10080.9
3°	10021.8
4°	9920.1
5°	9772.3
6°	9588.5
7°	9368.6
8°	9132.2
9°	8879.4
10°	8636.6
11°	8403.5
12°	8167.1
13°	7970.1
14°	7783.1
15°	7612.4
16°	7451.5
17°	7303.8
18°	7165.9
19°	7028.1
20°	6896.7
21°	6768.7
22°	6657.2
23°	6542.2
24°	6407.7
25°	6266.5
26°	6105.7
27°	5925.1
28°	5721.6
29°	5495.1
30°	5235.7
31°	4963.3
32°	4677.7
33°	4372.5
34°	4067.2
35°	3752.0
37.5°	3006.9
40°	2356.9
42.5°	1861.3
45°	1533.0
47.5°	1316.4
50°	1181.7
52.5°	1063.6
55°	961.8
57.5°	899.4



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	794.4
62.5°	692.6
65°	604.0
67.5°	525.2
70°	439.8
72.5°	367.6
75°	298.7
77.5°	216.6
80°	177.3
82.5°	128.0
85°	85.4
87.5°	39.4
90°	0.0

(END OF REPORT)