

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: P250564

Luminaire Tested: **LSR8B120D010 EC8B120840 8LBM0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250564  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13928)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B120D010 EC8B120840 8LBM0B  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 4000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7809.0 lumens  
Efficiency: N/A  
Efficacy: 66.0 lumens/watt  
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.87  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

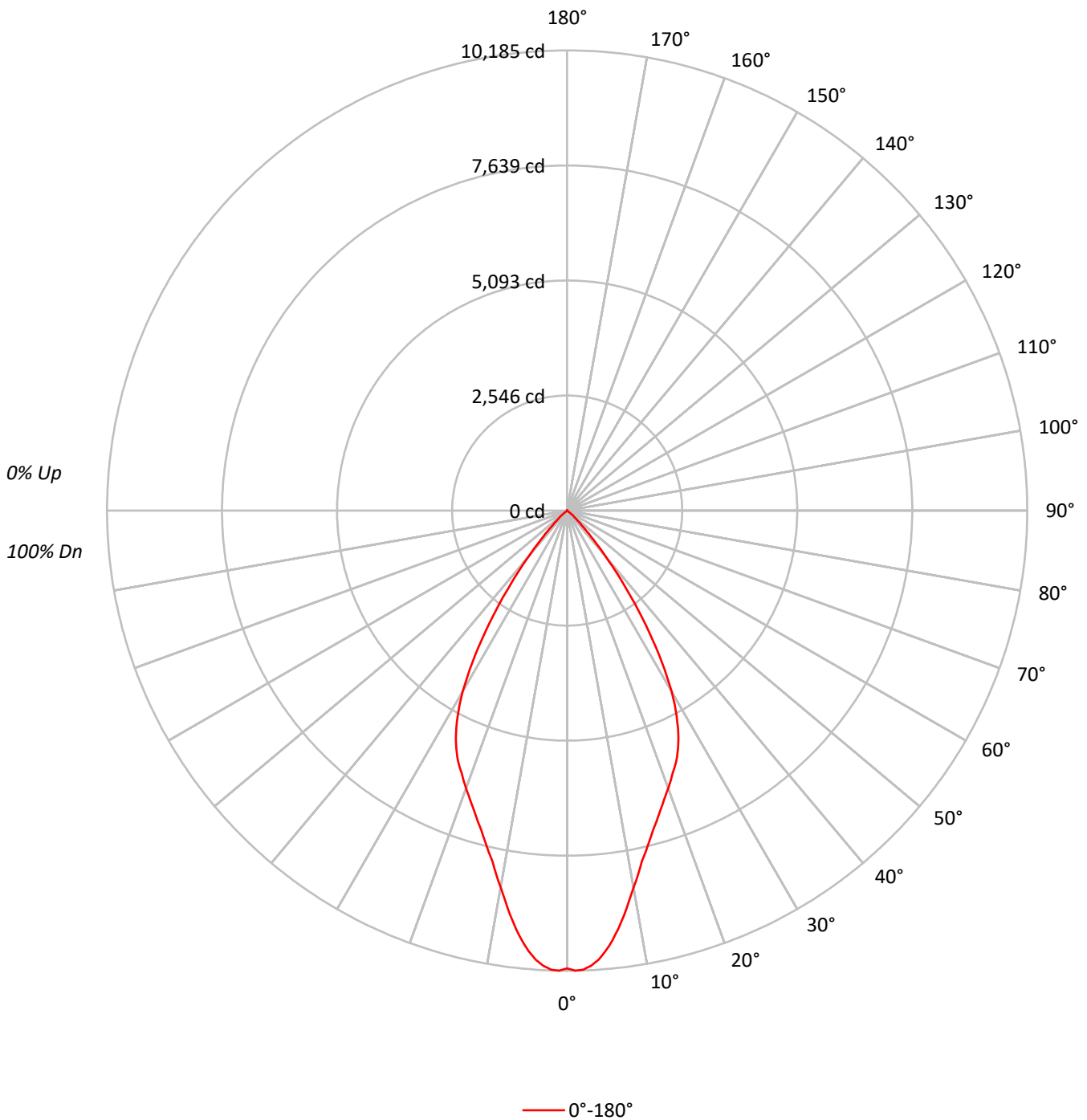
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87
3	103	96	92	88	101	95	91	87	92	89	86	90	87	84	88	85	83	81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71
6	88	79	74	69	87	79	73	69	77	72	69	76	71	68	74	71	68	66
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	70	66	63	62
8	80	70	64	60	79	70	64	60	69	64	60	68	63	60	67	63	60	58
9	76	66	61	57	75	66	60	57	65	60	56	64	60	56	63	59	56	55
10	72	63	57	53	71	62	57	53	62	57	53	61	56	53	60	56	53	51

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	312446
5°	302895
10°	265275
15°	234198
20°	214606
25°	197605
30°	164467
35°	109243
40°	53167
45°	19258
50°	5795
55°	409
60°	0
65°	277
70°	0
75°	0
80°	675
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	890.0	11.4
10°-20°	2066.8	26.5
20°-30°	2622.1	33.6
30°-40°	1796.3	23.0
40°-50°	409.4	5.2
50°-60°	20.4	0.3
60°-70°	0.9	0.0
70°-80°	1.5	0.0
80°-90°	1.6	0.0
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°	5578.9	71.4
0°-40°	7375.2	94.4
0°-60°	7805.0	99.9
0°-90°	7809.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7809.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	10132	
5°	9785	890
15°	7336	2067
25°	5808	2622
35°	2902	1796
45°	442	409
55°	8	20
65°	4	1
75°	0	2
85°	0	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	10132.4
1°	10185.3
2°	10166.3
3°	10090.9
4°	9962.5
5°	9785.3
6°	9570.1
7°	9321.1
8°	9045.6
9°	8751.2
10°	8472.0
11°	8215.4
12°	7939.9
13°	7739.9
14°	7528.6
15°	7336.1
16°	7162.5
17°	6992.6
18°	6834.2
19°	6679.4
20°	6539.8
21°	6396.4
22°	6249.2
23°	6121.0
24°	5977.6
25°	5807.8
26°	5619.0
27°	5400.2
28°	5166.2
29°	4905.8
30°	4619.0
31°	4294.5
32°	3958.6
33°	3607.7
34°	3249.1
35°	2902.0
37.5°	2049.1
40°	1320.8
42.5°	777.4
45°	441.6
47.5°	237.8
50°	120.8
52.5°	22.6
55°	7.6
57.5°	3.8



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	0.0
62.5°	0.0
65°	3.8
67.5°	0.0
70°	0.0
72.5°	3.8
75°	0.0
77.5°	0.0
80°	3.8
82.5°	0.0
85°	0.0
87.5°	3.8
90°	0.0

(END OF REPORT)