

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: P250557

Luminaire Tested: **LSR8B120D010 EC8B120835 8LBM0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250557  
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 EC8B120835 8LBM0B  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7860.0 lumens  
Efficiency: N/A  
Efficacy: 66.4 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

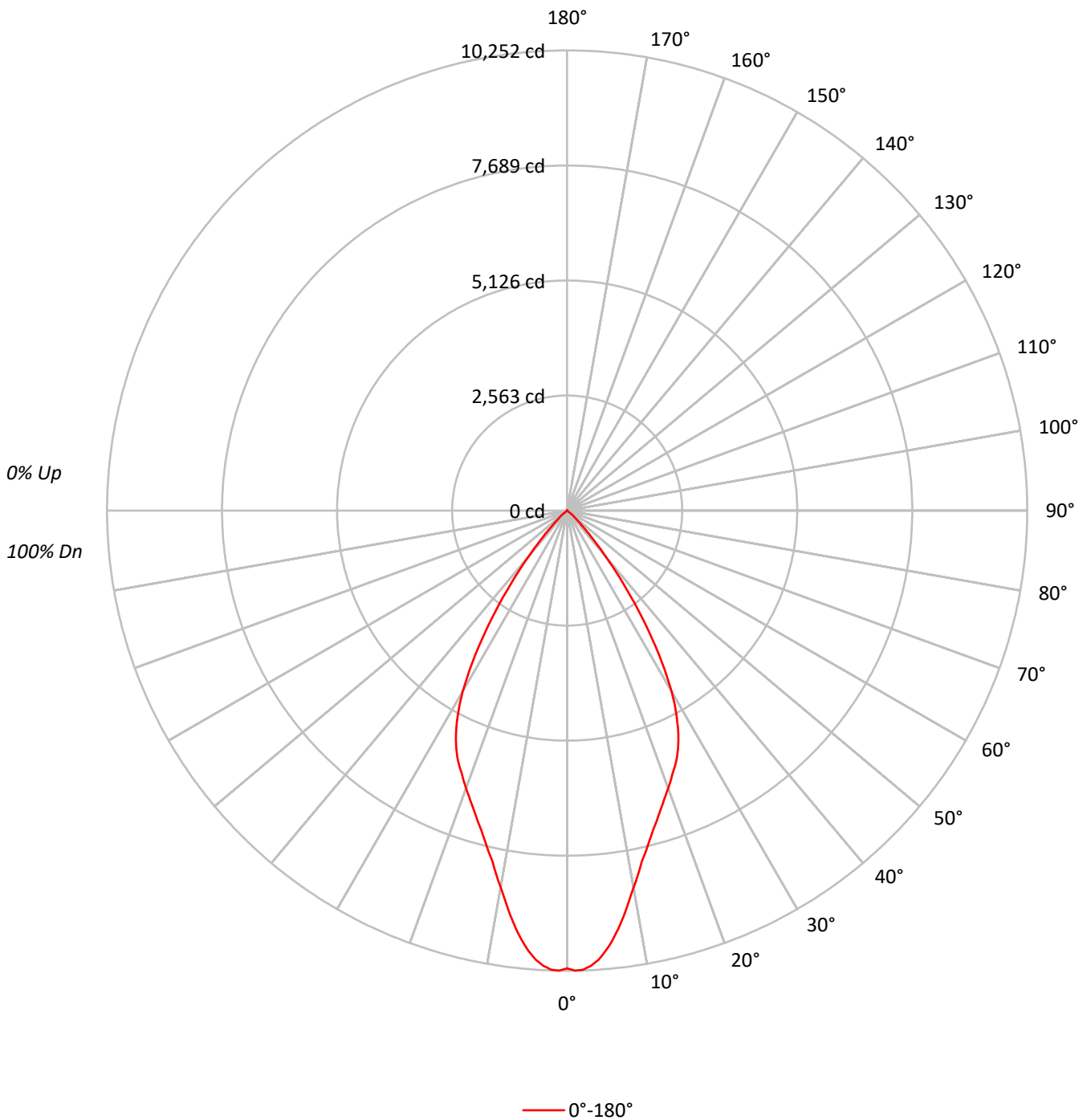
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	314487
5°	304873
10°	267007
15°	235728
20°	216007
25°	198895
30°	165543
35°	109955
40°	53514
45°	19380
50°	5833
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°	895.8	11.4
10°-20°	2080.3	26.5
20°-30°	2639.2	33.6
30°-40°	1808.1	23.0
40°-50°	412.0	5.2
50°-60°	20.5	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°	5615.4	71.4
0°-40°	7423.4	94.4
0°-60°	7856.0	99.9
0°-90°	7860.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7860.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	10199	
5°	9849	896
15°	7384	2080
25°	5846	2639
35°	2921	1808
45°	444	412
55°	8	21
65°	4	1
75°	0	2
85°	0	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	10198.6
1°	10251.8
2°	10232.7
3°	10156.8
4°	10027.6
5°	9849.2
6°	9632.6
7°	9382.0
8°	9104.6
9°	8808.3
10°	8527.3
11°	8269.0
12°	7991.8
13°	7790.5
14°	7577.7
15°	7384.0
16°	7209.3
17°	7038.3
18°	6878.8
19°	6723.1
20°	6582.5
21°	6438.2
22°	6290.1
23°	6161.0
24°	6016.6
25°	5845.7
26°	5655.7
27°	5435.5
28°	5200.0
29°	4937.9
30°	4649.2
31°	4322.5
32°	3984.5
33°	3631.2
34°	3270.4
35°	2920.9
37.5°	2062.5
40°	1329.4
42.5°	782.5
45°	444.4
47.5°	239.3
50°	121.6
52.5°	22.8
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)