

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: P250788

Luminaire Tested: **LSR8B120D010 EC8B1209730 8LBM0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250788  
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 EC8B1209730 8LBM0MW  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9064.0 lumens  
Efficiency: N/A  
Efficacy: 76.6 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.93  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

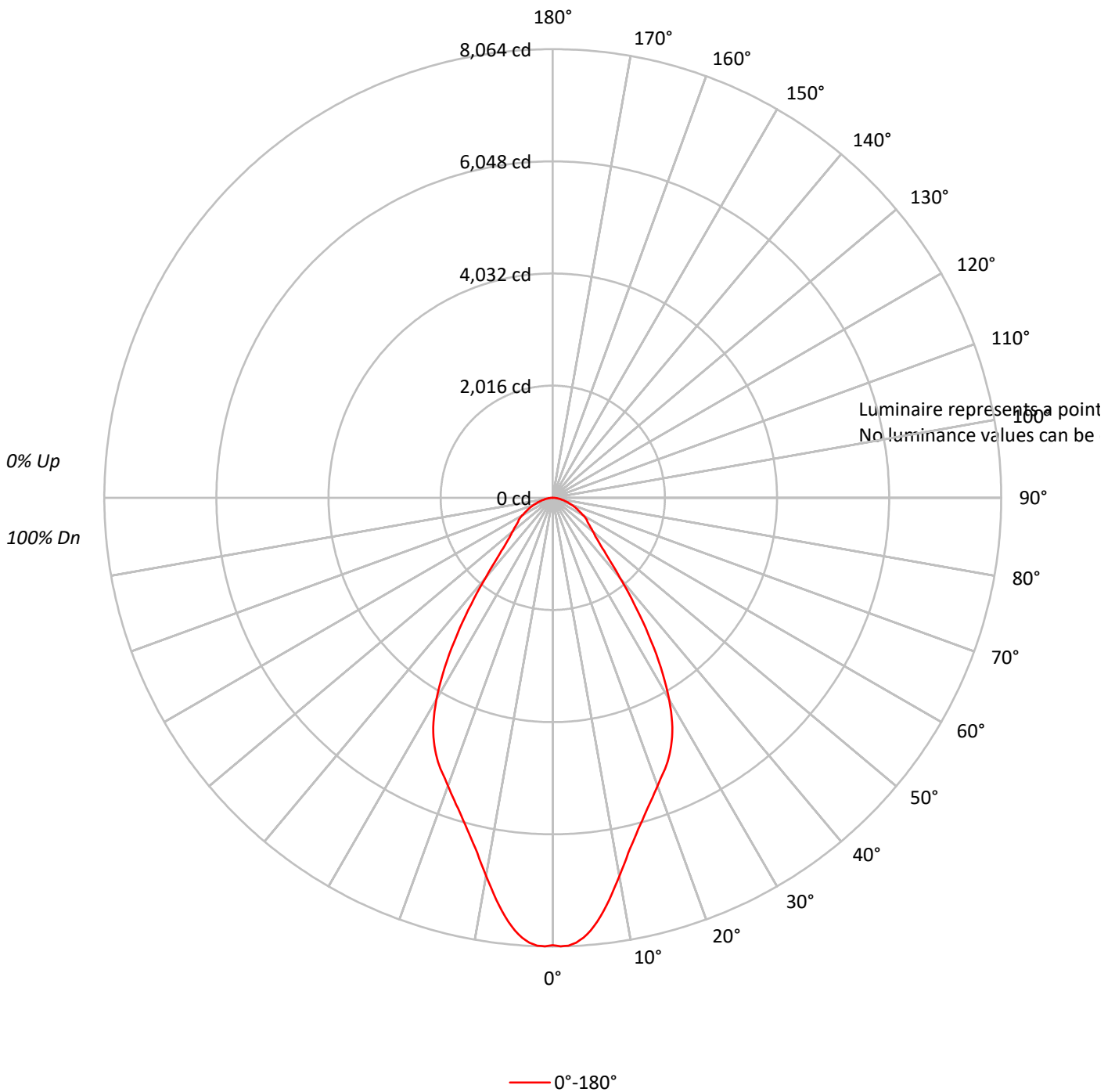
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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):**





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	714.6	7.9
10°-20°	1715.0	18.9
20°-30°	2272.7	25.1
30°-40°	1863.7	20.6
40°-50°	992.6	11.0
50°-60°	698.6	7.7
60°-70°	481.8	5.3
70°-80°	250.9	2.8
80°-90°	74.2	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°	4702.3	51.9
0°-40°	6566.0	72.4
0°-60°	8257.2	91.1
0°-90°	9064.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9064.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	8040	
5°	7807	715
15°	6081	1715
25°	5006	2273
35°	2997	1864
45°	1225	993
55°	768	699
65°	482	482
75°	239	251
85°	68	74
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	8040.2
1°	8063.8
2°	8053.3
3°	8006.1
4°	7924.9
5°	7806.8
6°	7660.0
7°	7484.3
8°	7295.5
9°	7093.5
10°	6899.5
11°	6713.3
12°	6524.5
13°	6367.1
14°	6217.7
15°	6081.3
16°	5952.8
17°	5834.8
18°	5724.6
19°	5614.5
20°	5509.6
21°	5407.3
22°	5318.2
23°	5226.4
24°	5118.9
25°	5006.1
26°	4877.7
27°	4733.4
28°	4570.8
29°	4389.9
30°	4182.7
31°	3965.0
32°	3736.9
33°	3493.0
34°	3249.1
35°	2997.4
37.5°	2402.1
40°	1882.9
42.5°	1486.9
45°	1224.7
47.5°	1051.6
50°	944.1
52.5°	849.7
55°	768.4
57.5°	718.5



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	634.6
62.5°	553.3
65°	482.5
67.5°	419.6
70°	351.4
72.5°	293.7
75°	238.6
77.5°	173.1
80°	141.6
82.5°	102.3
85°	68.2
87.5°	31.4
90°	0.0

(END OF REPORT)