

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: P250018

Luminaire Tested: **LSR8B120D010 EC8B120950 8LBN0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250018  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13951)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B120D010 EC8B120950 8LBN0WMH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 5000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10017.0 lumens  
Efficiency: N/A  
Efficacy: 84.7 lumens/watt  
Spacing Criteria (0/90/45): 0.74 / 0.74 / 0.79  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

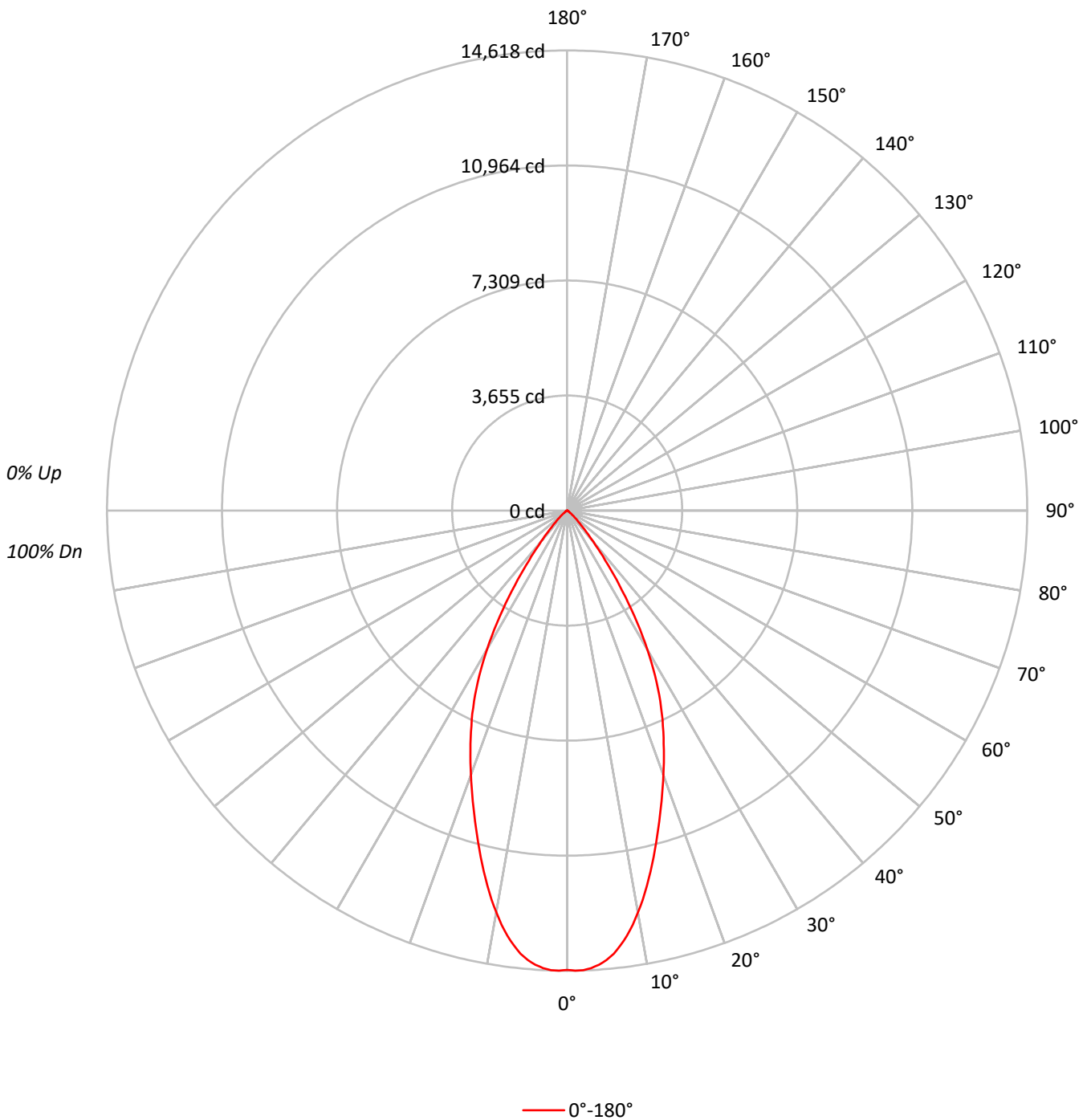
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P250018

CATALOG NUMBER: LSR8B120D010 EC8B120950 8LBN0WMH

### Luminous Intensity Polar Plot





TEST NUMBER: P250018

CATALOG NUMBER: LSR8B120D010 EC8B120950 8LBN0WMH

**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	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	108	104	100	97	106	102	99	96	99	96	93	96	94	91	93	91	90	88
3	103	97	92	89	101	96	91	88	93	89	86	91	88	85	89	86	84	82
4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	79	77
5	94	86	80	76	92	85	80	76	83	78	75	81	77	74	80	76	74	72
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68
7	85	76	71	67	84	76	70	66	74	70	66	73	69	66	72	68	65	64
8	81	72	66	63	80	72	66	62	71	66	62	70	65	62	69	65	62	60
9	78	68	63	59	77	68	63	59	67	62	59	66	62	58	65	61	58	57
10	74	65	59	56	73	65	59	56	64	59	56	63	59	55	62	58	55	54

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

	0°
0°	449902
5°	443634
10°	405863
15°	348468
20°	293444
25°	242452
30°	181858
35°	108400
40°	51646
45°	22498
50°	10204
55°	4494
60°	2578
65°	1532
70°	1578
75°	0
80°	622
85°	2477



TEST NUMBER: P250018

CATALOG NUMBER: LSR8B120D010 EC8B120950 8LBN0WMH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1324.2	13.2
10°-20°	3038.3	30.3
20°-30°	3227.8	32.2
30°-40°	1841.6	18.4
40°-50°	456.6	4.6
50°-60°	89.8	0.9
60°-70°	27.1	0.3
70°-80°	6.4	0.1
80°-90°	5.2	0.1
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°	7590.3	75.8
0°-40°	9431.8	94.2
0°-60°	9978.3	99.6
0°-90°	10017.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10017.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	14590	
5°	14332	###
15°	10916	3038
25°	7126	3228
35°	2880	1842
45°	516	457
55°	84	90
65°	21	27
75°	0	6
85°	7	5
90°	0	



TEST NUMBER: P250018

CATALOG NUMBER: LSR8B120D010 EC8B120950 8LBN0WMH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	14590.0
1°	14618.0
2°	14607.5
3°	14555.2
4°	14464.6
5°	14332.0
6°	14157.8
7°	13917.2
8°	13641.7
9°	13317.6
10°	12961.9
11°	12585.5
12°	12181.0
13°	11769.6
14°	11347.8
15°	10915.5
16°	10507.6
17°	10096.3
18°	9709.2
19°	9315.4
20°	8942.3
22.5°	8018.4
25°	7125.9
27.5°	6167.3
30°	5107.4
32.5°	3970.8
35°	2879.6
37.5°	1983.6
40°	1283.0
42.5°	812.4
45°	515.9
47.5°	338.2
50°	212.7
52.5°	129.1
55°	83.6
57.5°	66.3
60°	41.8
62.5°	38.3
65°	21.0
67.5°	21.0
70°	17.5
72.5°	10.5
75°	0.0
77.5°	3.5
80°	3.5



TEST NUMBER: P250018

CATALOG NUMBER: LSR8B120D010 EC8B120950 8LBN0WMH

**CANDELA DISTRIBUTION (continued):**

	0°
82.5°	7.0
85°	7.0
87.5°	3.5
90°	0.0

(END OF REPORT)