

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: P250102

Luminaire Tested: **LSR8B120D010 EC8B120950 8LBN0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250102  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13946)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B120D010 EC8B120950 8LBN0WH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 5000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10564.0 lumens  
Efficiency: N/A  
Efficacy: 89.3 lumens/watt  
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.66  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

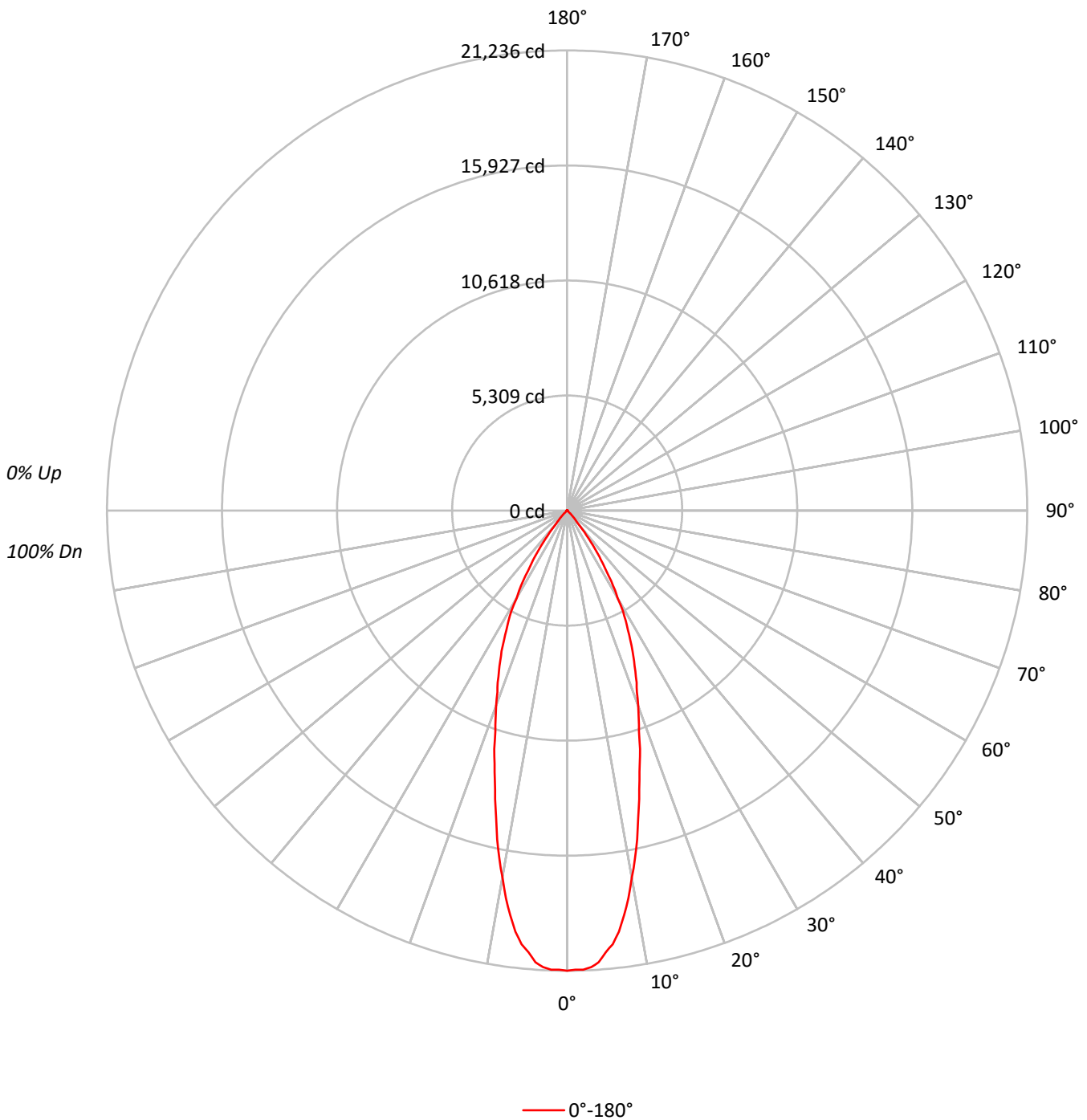
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89
3	105	99	94	91	103	97	93	90	95	91	89	92	90	87	90	88	86	85
4	100	93	88	85	98	92	88	84	90	86	83	88	85	82	86	84	81	80
5	96	88	83	79	94	87	83	79	86	82	78	84	81	78	83	80	77	76
6	92	84	79	75	90	83	78	74	82	77	74	80	76	74	79	76	73	72
7	88	80	74	71	87	79	74	70	78	73	70	77	73	70	76	72	69	68
8	84	76	71	67	83	75	70	67	74	70	67	73	69	66	72	69	66	65
9	81	72	67	64	80	72	67	64	71	66	63	70	66	63	69	66	63	62
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59

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

	0°
0°	654846
5°	633271
10°	538557
15°	411048
20°	314144
25°	243439
30°	166034
35°	97547
40°	29828
45°	11735
50°	177
55°	199
60°	228
65°	540
70°	1001
75°	882
80°	657
85°	3927



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1854.7	17.6
10°-20°	3593.9	34.0
20°-30°	3235.7	30.6
30°-40°	1600.9	15.2
40°-50°	243.5	2.3
50°-60°	10.0	0.1
60°-70°	12.9	0.1
70°-80°	4.9	0.0
80°-90°	7.6	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°	8684.3	82.2
0°-40°	10285.2	97.4
0°-60°	10538.7	99.8
0°-90°	10564.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10564.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	21236	
5°	20458	###
15°	12876	3594
25°	7155	3236
35°	2591	1601
45°	269	244
55°	4	10
65°	7	13
75°	7	5
85°	11	8
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	21236.2
1°	21192.0
2°	21202.9
3°	21096.0
4°	20900.8
5°	20458.4
6°	20119.3
7°	19581.1
8°	18858.6
9°	18106.6
10°	17199.7
11°	16388.8
12°	15518.9
13°	14556.8
14°	13727.4
15°	12875.8
16°	12149.6
17°	11508.3
18°	10719.4
19°	10140.6
20°	9573.1
21°	8983.2
22°	8552.0
23°	8050.6
24°	7589.8
25°	7154.9
26°	6642.4
27°	6181.8
28°	5768.9
29°	5315.4
30°	4663.0
31°	4294.5
32°	3829.9
33°	3321.2
34°	2934.2
35°	2591.3
37.5°	1640.3
40°	741.0
42.5°	505.0
45°	269.1
47.5°	151.1
50°	3.7
52.5°	14.8
55°	3.7
57.5°	22.2



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	3.7
62.5°	18.5
65°	7.4
67.5°	18.5
70°	11.1
72.5°	3.7
75°	7.4
77.5°	0.0
80°	3.7
82.5°	14.8
85°	11.1
87.5°	0.0
90°	0.0

(END OF REPORT)