

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: P250010

Luminaire Tested: **LSR8B100D010 EC8B100940 8LBN0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250010  
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: LSR8B100D010 EC8B100940 8LBN0WMH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 4000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8534.1 lumens  
Efficiency: N/A  
Efficacy: 80.3 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

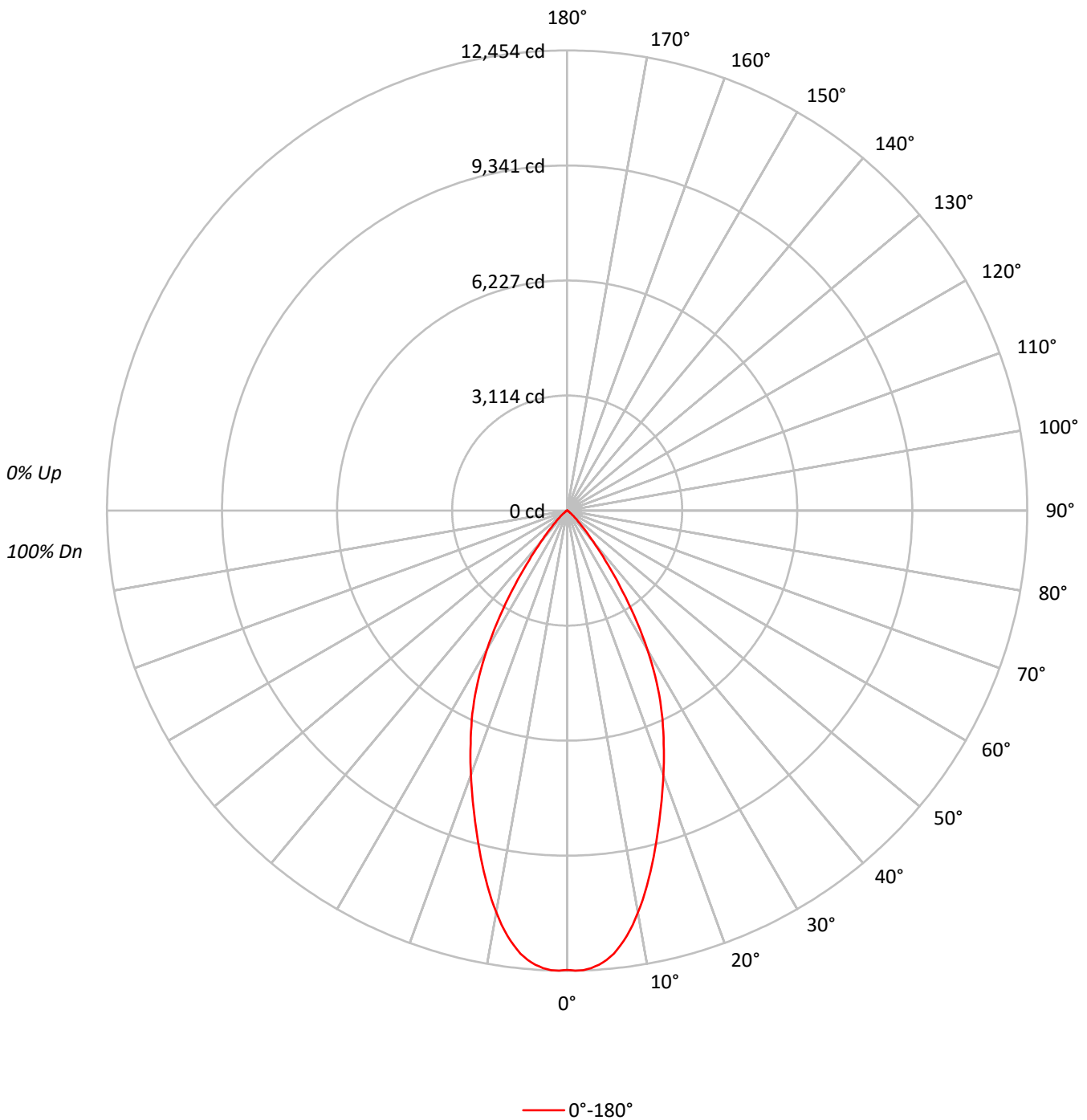
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	383295
5°	377956
10°	345775
15°	296878
20°	250000
25°	206557
30°	154935
35°	92352
40°	44002
45°	19171
50°	8693
55°	3828
60°	2196
65°	1306
70°	1343
75°	0
80°	533
85°	2123



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1128.2	13.2
10°-20°	2588.4	30.3
20°-30°	2749.9	32.2
30°-40°	1569.0	18.4
40°-50°	389.0	4.6
50°-60°	76.5	0.9
60°-70°	23.1	0.3
70°-80°	5.5	0.1
80°-90°	4.5	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°	6466.5	75.8
0°-40°	8035.5	94.2
0°-60°	8501.0	99.6
0°-90°	8534.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8534.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	12430	
5°	12210	###
15°	9300	2588
25°	6071	2750
35°	2453	1569
45°	440	389
55°	71	77
65°	18	23
75°	0	5
85°	6	4
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	12430.0
1°	12453.8
2°	12444.9
3°	12400.3
4°	12323.1
5°	12210.2
6°	12061.8
7°	11856.8
8°	11622.1
9°	11346.0
10°	11042.9
11°	10722.3
12°	10377.6
13°	10027.2
14°	9667.8
15°	9299.5
16°	8952.0
17°	8601.5
18°	8271.8
19°	7936.2
20°	7618.4
22.5°	6831.3
25°	6070.9
27.5°	5254.2
30°	4351.3
32.5°	3382.9
35°	2453.3
37.5°	1690.0
40°	1093.1
42.5°	692.1
45°	439.6
47.5°	288.2
50°	181.2
52.5°	110.0
55°	71.2
57.5°	56.5
60°	35.6
62.5°	32.6
65°	17.9
67.5°	17.9
70°	14.9
72.5°	8.9
75°	0.0
77.5°	3.0
80°	3.0



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**CANDELA DISTRIBUTION (continued):**

	0°
82.5°	6.0
85°	6.0
87.5°	3.0
90°	0.0

(END OF REPORT)