

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: P250633

Luminaire Tested: **LSR8B100D010 EC8B100830 8LBN0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250633  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P131425)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B100D010 EC8B100830 8LBN0MW  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9668.0 lumens  
Efficiency: N/A  
Efficacy: 90.9 lumens/watt  
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.85  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

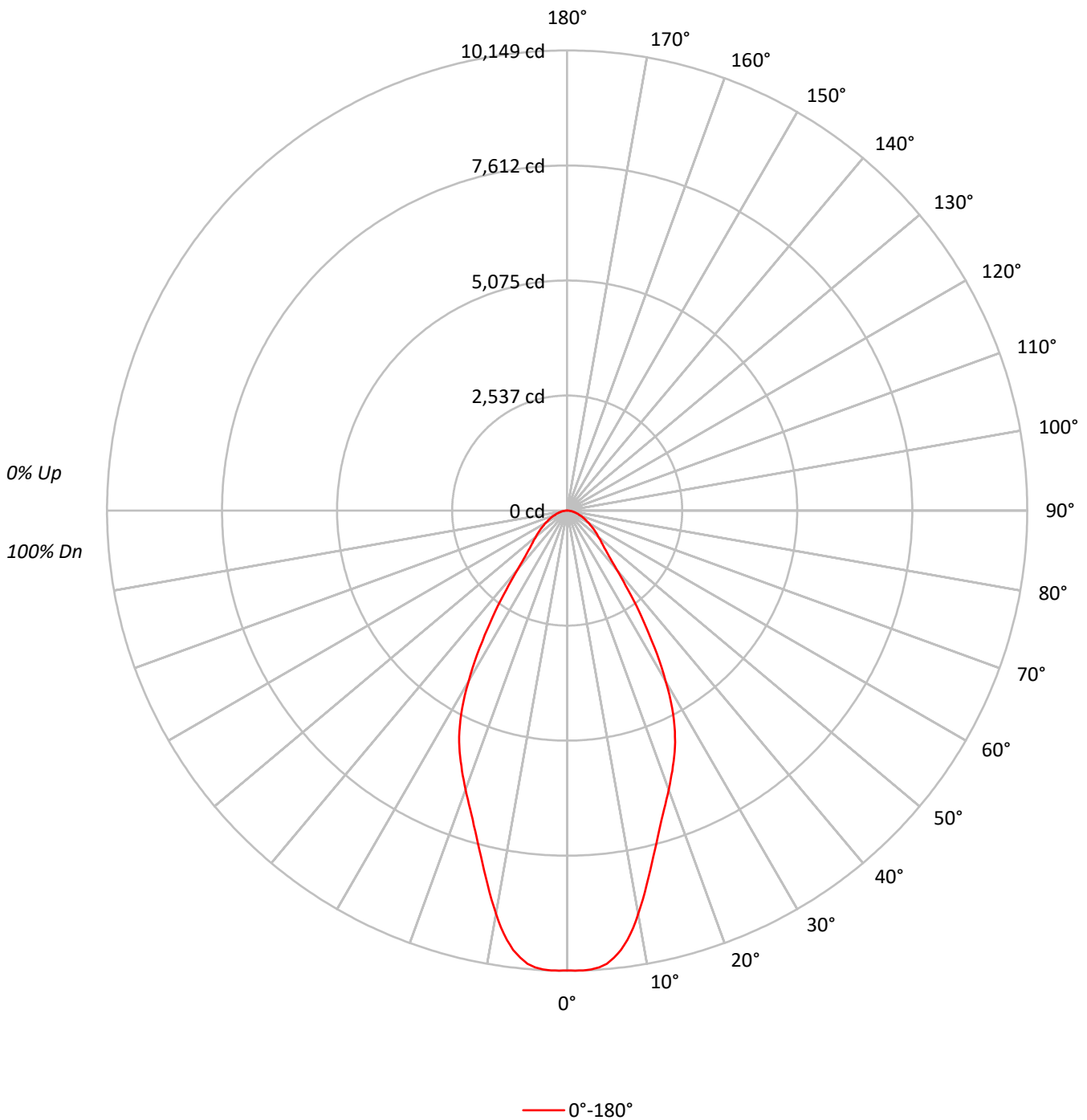
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	109	106	103	109	106	104	101	102	100	98		98	97	95		95	94	92	90
2	105	99	94	90	103	97	93	89	94	90	87		91	88	85		88	86	83	82
3	99	91	85	80	96	89	84	79	87	82	78		84	80	77		82	78	76	74
4	93	84	77	72	91	83	76	72	80	75	71		78	74	70		76	72	69	67
5	87	78	71	66	85	77	70	65	75	69	65		73	68	64		71	67	64	62
6	82	72	65	60	81	71	65	60	70	64	60		68	63	59		67	62	59	57
7	78	67	60	56	76	67	60	55	65	59	55		64	59	55		63	58	54	53
8	74	63	56	52	72	62	56	51	61	55	51		60	55	51		59	54	51	49
9	70	59	53	48	69	59	52	48	58	52	48		57	51	48		56	51	47	46
10	66	56	49	45	65	55	49	45	54	49	45		54	48	45		53	48	45	43

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

	0°
0°	312773
5°	310528
10°	282923
15°	242563
20°	214911
25°	191763
30°	154875
35°	107534
40°	68174
45°	50582
50°	43214
55°	37982
60°	33864
65°	30383
70°	26146
75°	23900
80°	22446
85°	19672



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	925.9	9.6
10°-20°	2136.4	22.1
20°-30°	2546.3	26.3
30°-40°	1797.4	18.6
40°-50°	928.2	9.6
50°-60°	637.0	6.6
60°-70°	414.1	4.3
70°-80°	216.8	2.2
80°-90°	65.9	0.7
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°	5608.6	58.0
0°-40°	7406.0	76.6
0°-60°	8971.2	92.8
0°-90°	9668.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9668.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	10143	
5°	10032	926
15°	7598	2136
25°	5636	2546
35°	2857	1797
45°	1160	928
55°	706	637
65°	416	414
75°	201	217
85°	56	66
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	10143.0
1°	10149.2
2°	10149.2
3°	10133.7
4°	10099.9
5°	10031.9
6°	9911.7
7°	9763.6
8°	9559.9
9°	9313.2
10°	9035.6
11°	8742.5
12°	8437.0
13°	8144.0
14°	7860.2
15°	7598.1
16°	7354.3
17°	7129.2
18°	6925.5
19°	6734.2
20°	6549.1
21°	6367.1
22°	6188.2
23°	6009.3
24°	5827.3
25°	5636.1
26°	5420.0
27°	5185.6
28°	4929.6
29°	4658.2
30°	4349.6
31°	4050.4
32°	3745.0
33°	3430.3
34°	3140.3
35°	2856.6
37.5°	2199.5
40°	1693.6
42.5°	1363.6
45°	1159.9
47.5°	1014.9
50°	900.8
52.5°	802.1
55°	706.5
57.5°	620.1



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	549.1
62.5°	478.2
65°	416.4
67.5°	360.9
70°	290.0
72.5°	249.9
75°	200.6
77.5°	163.4
80°	126.4
82.5°	92.5
85°	55.6
87.5°	30.8
90°	0.0

(END OF REPORT)