

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: P250654

Luminaire Tested: **LSR8B100D010 EC8B100850 8LBN0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250654  
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 EC8B100850 8LBN0MW  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 5000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10183.0 lumens  
Efficiency: N/A  
Efficacy: 95.8 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

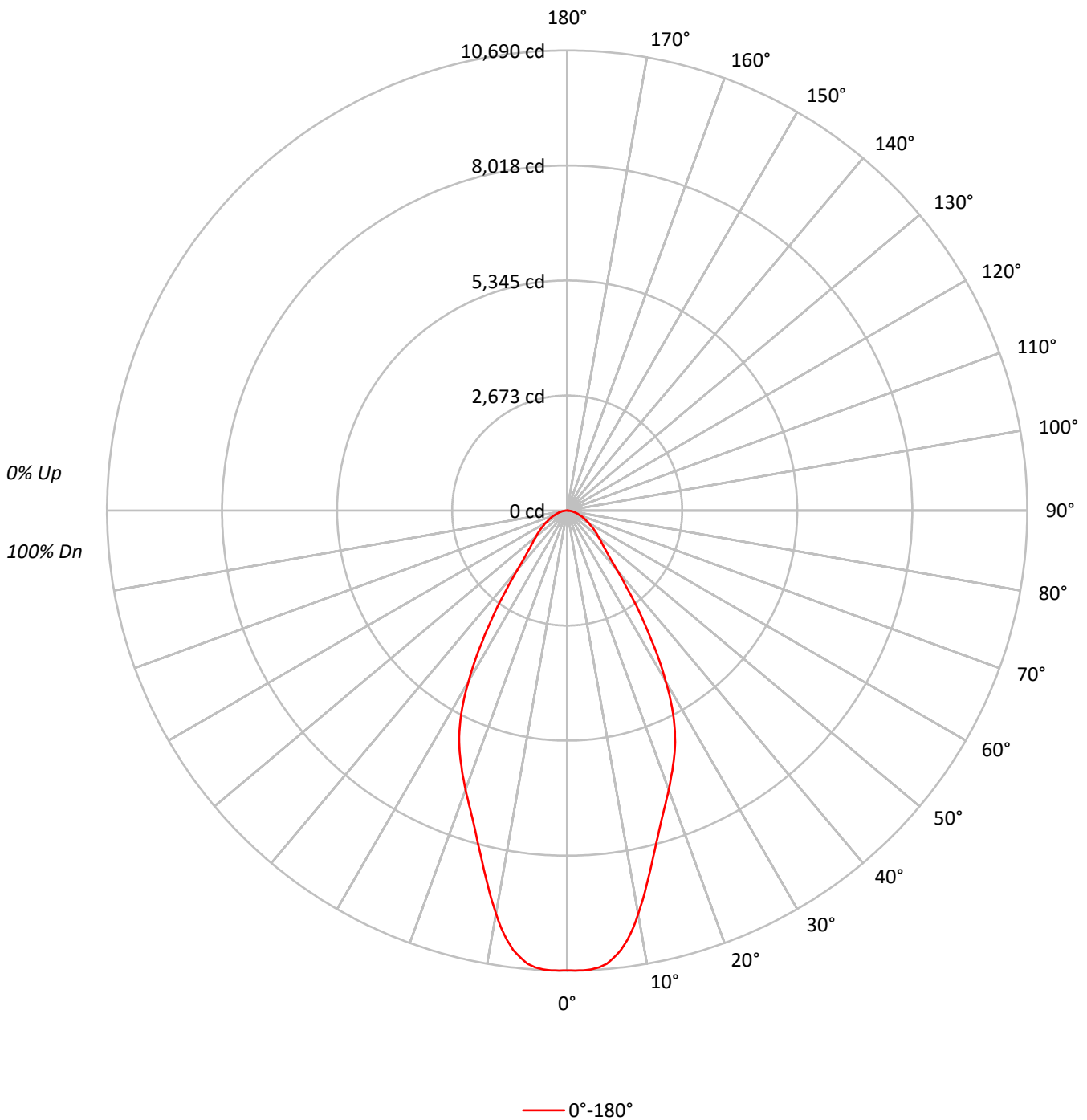
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	329434
5°	327070
10°	297993
15°	255482
20°	226360
25°	201977
30°	163125
35°	113264
40°	71809
45°	53277
50°	45517
55°	40004
60°	35665
65°	32002
70°	27544
75°	25163
80°	23654
85°	20698



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	975.2	9.6
10°-20°	2250.2	22.1
20°-30°	2681.9	26.3
30°-40°	1893.1	18.6
40°-50°	977.7	9.6
50°-60°	670.9	6.6
60°-70°	436.2	4.3
70°-80°	228.3	2.2
80°-90°	69.4	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°	5907.4	58.0
0°-40°	7800.5	76.6
0°-60°	9449.1	92.8
0°-90°	10183.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10183.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	10683	
5°	10566	975
15°	8003	2250
25°	5936	2682
35°	3009	1893
45°	1222	978
55°	744	671
65°	439	436
75°	211	228
85°	58	69
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	10683.3
1°	10689.9
2°	10689.9
3°	10673.6
4°	10637.9
5°	10566.3
6°	10439.7
7°	10283.7
8°	10069.2
9°	9809.3
10°	9516.9
11°	9208.2
12°	8886.4
13°	8577.9
14°	8278.9
15°	8002.8
16°	7746.1
17°	7508.9
18°	7294.4
19°	7092.9
20°	6898.0
21°	6706.3
22°	6517.9
23°	6329.4
24°	6137.8
25°	5936.3
26°	5708.8
27°	5461.8
28°	5192.2
29°	4906.3
30°	4581.3
31°	4266.2
32°	3944.4
33°	3613.1
34°	3307.6
35°	3008.8
37.5°	2316.7
40°	1783.9
42.5°	1436.2
45°	1221.7
47.5°	1069.0
50°	948.8
52.5°	844.8
55°	744.1
57.5°	653.1



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	578.3
62.5°	503.7
65°	438.6
67.5°	380.1
70°	305.5
72.5°	263.2
75°	211.2
77.5°	172.1
80°	133.2
82.5°	97.5
85°	58.5
87.5°	32.4
90°	0.0

(END OF REPORT)