

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: P246695

Luminaire Tested: **LSR8B50D010 EC8B50835 8LBM0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246695  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201674)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B50D010 EC8B50835 8LBM0MW  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5517.0 lumens  
Efficiency: N/A  
Efficacy: 104.1 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.93  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

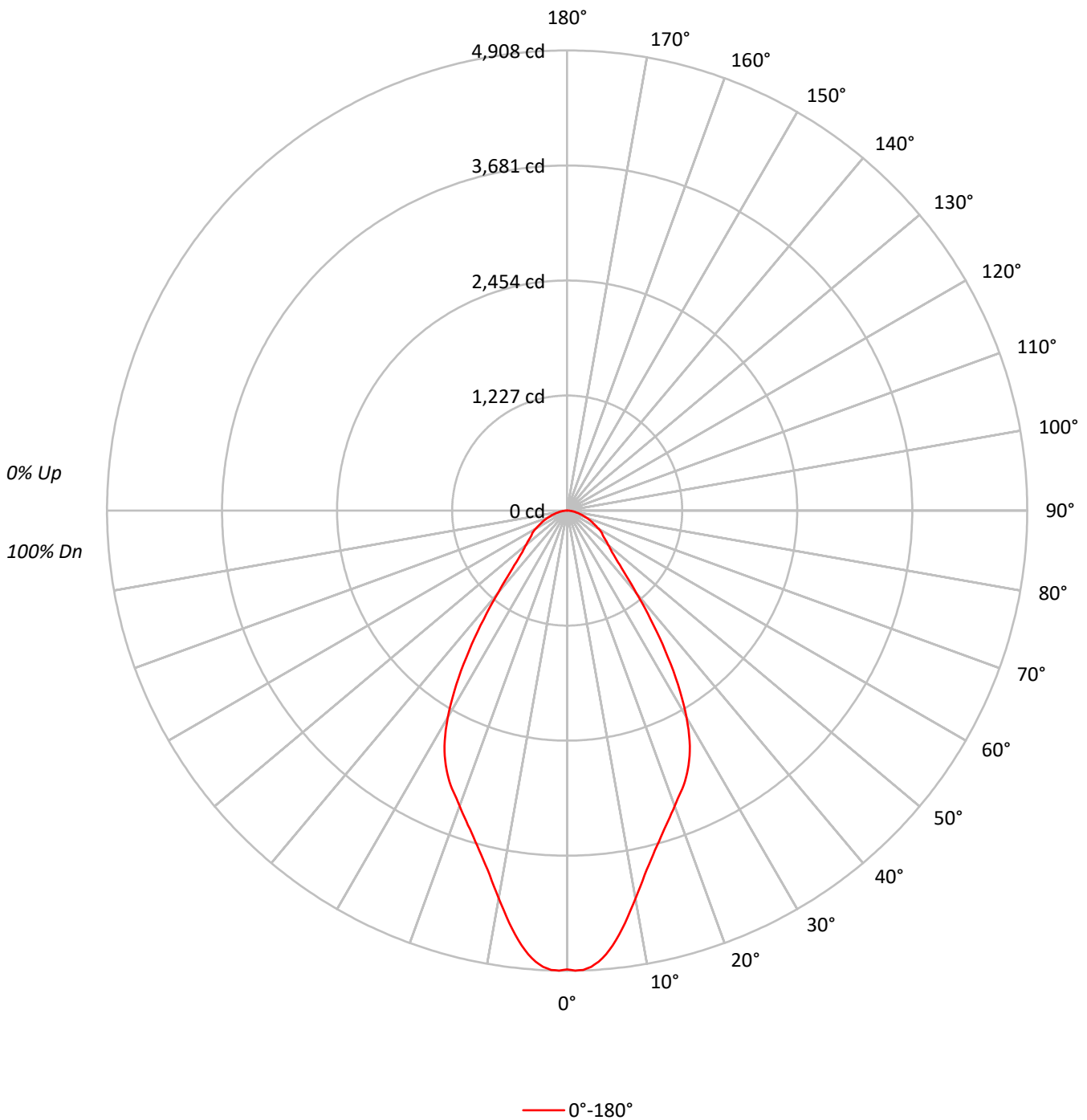
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	71
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46
9	67	56	49	44	66	56	49	44	54	48	44	54	48	44	53	48	44	42
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39

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

	0°
0°	150916
5°	147088
10°	131495
15°	118167
20°	110043
25°	103671
30°	90640
35°	68682
40°	46127
45°	32515
50°	27575
55°	25144
60°	23824
65°	21430
70°	19285
75°	17335
80°	15272
85°	14718



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	434.9	7.9
10°-20°	1043.9	18.9
20°-30°	1383.3	25.1
30°-40°	1134.3	20.6
40°-50°	604.2	11.0
50°-60°	425.3	7.7
60°-70°	293.3	5.3
70°-80°	152.7	2.8
80°-90°	45.2	0.8
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°	2862.1	51.9
0°-40°	3996.3	72.4
0°-60°	5025.8	91.1
0°-90°	5517.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5517.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4894	
5°	4752	435
15°	3702	1044
25°	3047	1383
35°	1824	1134
45°	746	604
55°	468	425
65°	294	293
75°	146	153
85°	42	45
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4894.1
1°	4907.9
2°	4902.0
3°	4872.9
4°	4823.3
5°	4751.8
6°	4662.5
7°	4555.3
8°	4440.3
9°	4317.8
10°	4199.5
11°	4086.3
12°	3971.3
13°	3875.4
14°	3784.5
15°	3701.5
16°	3623.2
17°	3551.1
18°	3484.3
19°	3417.4
20°	3353.4
21°	3291.0
22°	3236.7
23°	3181.1
24°	3115.8
25°	3047.0
26°	2968.9
27°	2881.0
28°	2781.8
29°	2671.9
30°	2545.6
31°	2413.3
32°	2274.3
33°	2126.1
34°	1977.3
35°	1824.5
37.5°	1461.9
40°	1145.9
42.5°	905.0
45°	745.6
47.5°	640.3
50°	574.8
52.5°	517.3
55°	467.7
57.5°	437.3



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	386.3
62.5°	336.8
65°	293.7
67.5°	255.5
70°	213.9
72.5°	178.6
75°	145.5
77.5°	105.3
80°	86.0
82.5°	62.2
85°	41.6
87.5°	19.3
90°	0.0

(END OF REPORT)