

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: P246701

Luminaire Tested: **LD8B50D010 ER8B50840 8LBM0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246701  
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: LD8B50D010 ER8B50840 8LBM0MW  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 4000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5481.0 lumens  
Efficiency: N/A  
Efficacy: 103.4 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

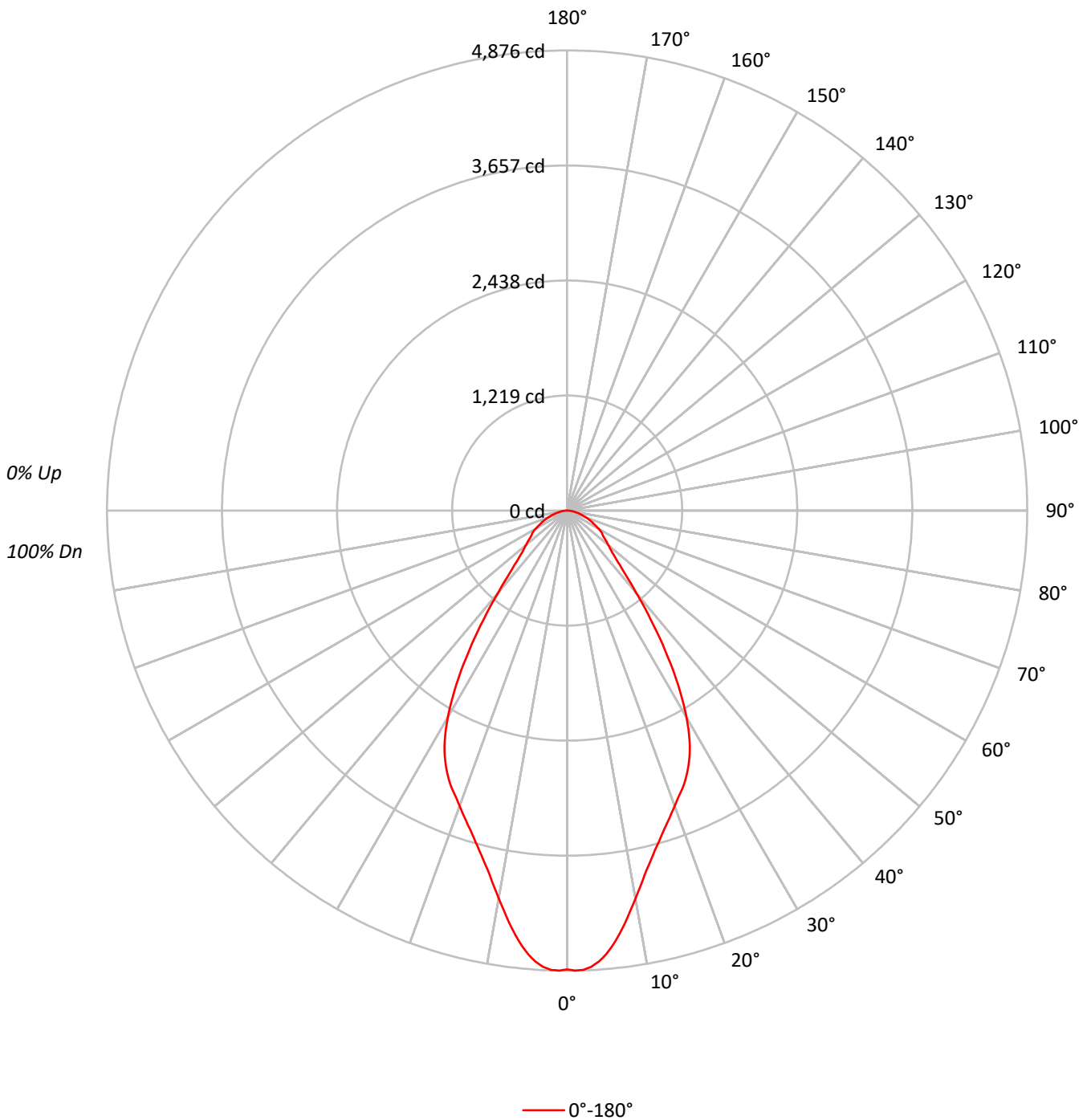
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	149929
5°	146128
10°	130637
15°	117394
20°	109324
25°	102994
30°	90049
35°	68234
40°	45825
45°	32301
50°	27392
55°	24978
60°	23670
65°	21291
70°	19159
75°	17228
80°	15165
85°	14612



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	432.1	7.9
10°-20°	1037.0	18.9
20°-30°	1374.3	25.1
30°-40°	1126.9	20.6
40°-50°	600.3	11.0
50°-60°	422.5	7.7
60°-70°	291.4	5.3
70°-80°	151.7	2.8
80°-90°	44.9	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°	2843.4	51.9
0°-40°	3970.3	72.4
0°-60°	4993.1	91.1
0°-90°	5481.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5481.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4862	
5°	4721	432
15°	3677	1037
25°	3027	1374
35°	1813	1127
45°	741	600
55°	465	423
65°	292	291
75°	145	152
85°	41	45
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4862.1
1°	4875.9
2°	4870.0
3°	4841.1
4°	4791.8
5°	4720.8
6°	4632.1
7°	4525.6
8°	4411.3
9°	4289.6
10°	4172.1
11°	4059.6
12°	3945.4
13°	3850.1
14°	3759.8
15°	3677.3
16°	3599.6
17°	3527.9
18°	3461.5
19°	3395.1
20°	3331.5
21°	3269.6
22°	3215.6
23°	3160.4
24°	3095.5
25°	3027.1
26°	2949.5
27°	2862.2
28°	2763.6
29°	2654.4
30°	2529.0
31°	2397.5
32°	2259.5
33°	2112.3
34°	1964.4
35°	1812.6
37.5°	1452.4
40°	1138.4
42.5°	899.1
45°	740.7
47.5°	636.1
50°	571.0
52.5°	514.0
55°	464.6
57.5°	434.5



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	383.8
62.5°	334.6
65°	291.8
67.5°	253.8
70°	212.5
72.5°	177.4
75°	144.6
77.5°	104.6
80°	85.4
82.5°	61.8
85°	41.3
87.5°	19.2
90°	0.0

(END OF REPORT)