

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: P246731

Luminaire Tested: **LD8B50D010 ER8B50940 8LBM0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246731  
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 ER8B50940 8LBM0MW  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 4000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4914.0 lumens  
Efficiency: N/A  
Efficacy: 92.7 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

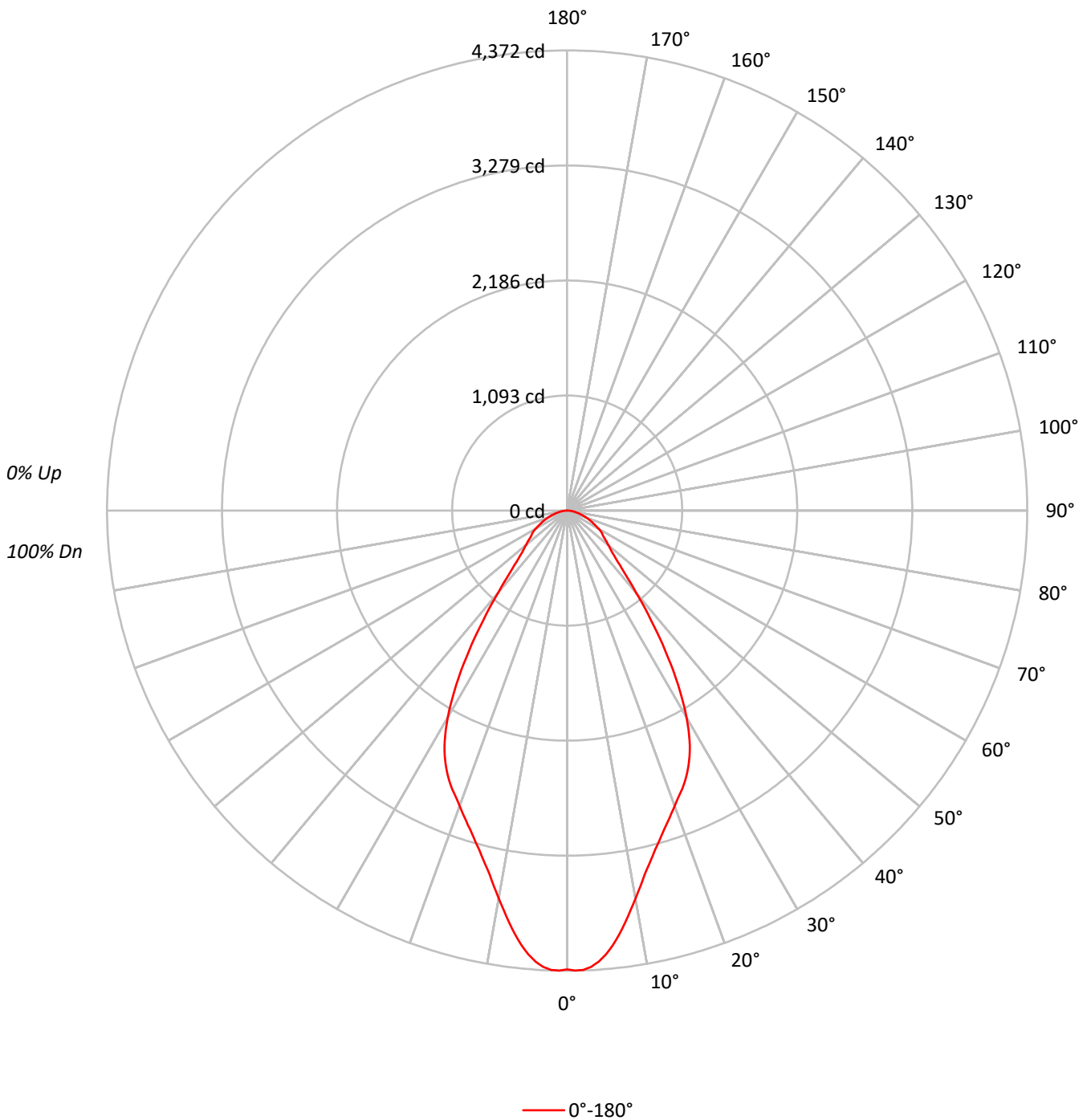
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	134422
5°	131013
10°	117123
15°	105251
20°	98016
25°	92338
30°	80735
35°	61176
40°	41087
45°	28961
50°	24562
55°	22397
60°	21222
65°	19088
70°	17175
75°	15441
80°	13603
85°	13091



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	387.4	7.9
10°-20°	929.8	18.9
20°-30°	1232.1	25.1
30°-40°	1010.3	20.6
40°-50°	538.2	11.0
50°-60°	378.8	7.7
60°-70°	261.2	5.3
70°-80°	136.0	2.8
80°-90°	40.2	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°	2549.2	51.9
0°-40°	3559.5	72.4
0°-60°	4476.6	91.1
0°-90°	4914.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4914.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4359	
5°	4232	387
15°	3297	930
25°	2714	1232
35°	1625	1010
45°	664	538
55°	417	379
65°	262	261
75°	130	136
85°	37	40
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4359.2
1°	4371.5
2°	4366.2
3°	4340.3
4°	4296.1
5°	4232.5
6°	4152.9
7°	4057.4
8°	3954.9
9°	3845.9
10°	3740.5
11°	3639.7
12°	3537.2
13°	3451.8
14°	3370.8
15°	3296.9
16°	3227.2
17°	3163.0
18°	3103.5
19°	3043.9
20°	2986.9
21°	2931.3
22°	2883.0
23°	2833.4
24°	2775.2
25°	2713.9
26°	2644.4
27°	2566.1
28°	2477.7
29°	2379.8
30°	2267.4
31°	2149.5
32°	2025.8
33°	1893.8
34°	1761.2
35°	1625.1
37.5°	1302.1
40°	1020.7
42.5°	806.1
45°	664.1
47.5°	570.3
50°	512.0
52.5°	460.8
55°	416.6
57.5°	389.5



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	344.1
62.5°	300.0
65°	261.6
67.5°	227.5
70°	190.5
72.5°	159.0
75°	129.6
77.5°	93.8
80°	76.6
82.5°	55.4
85°	37.0
87.5°	17.2
90°	0.0

(END OF REPORT)