

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: P244427

Luminaire Tested: **LD8B50D010 ER8B50940 8LBM0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244427  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27951)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B50D010 ER8B50940 8LBM0H  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4833.1 lumens  
Efficiency: N/A  
Efficacy: 91.2 lumens/watt  
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.93  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

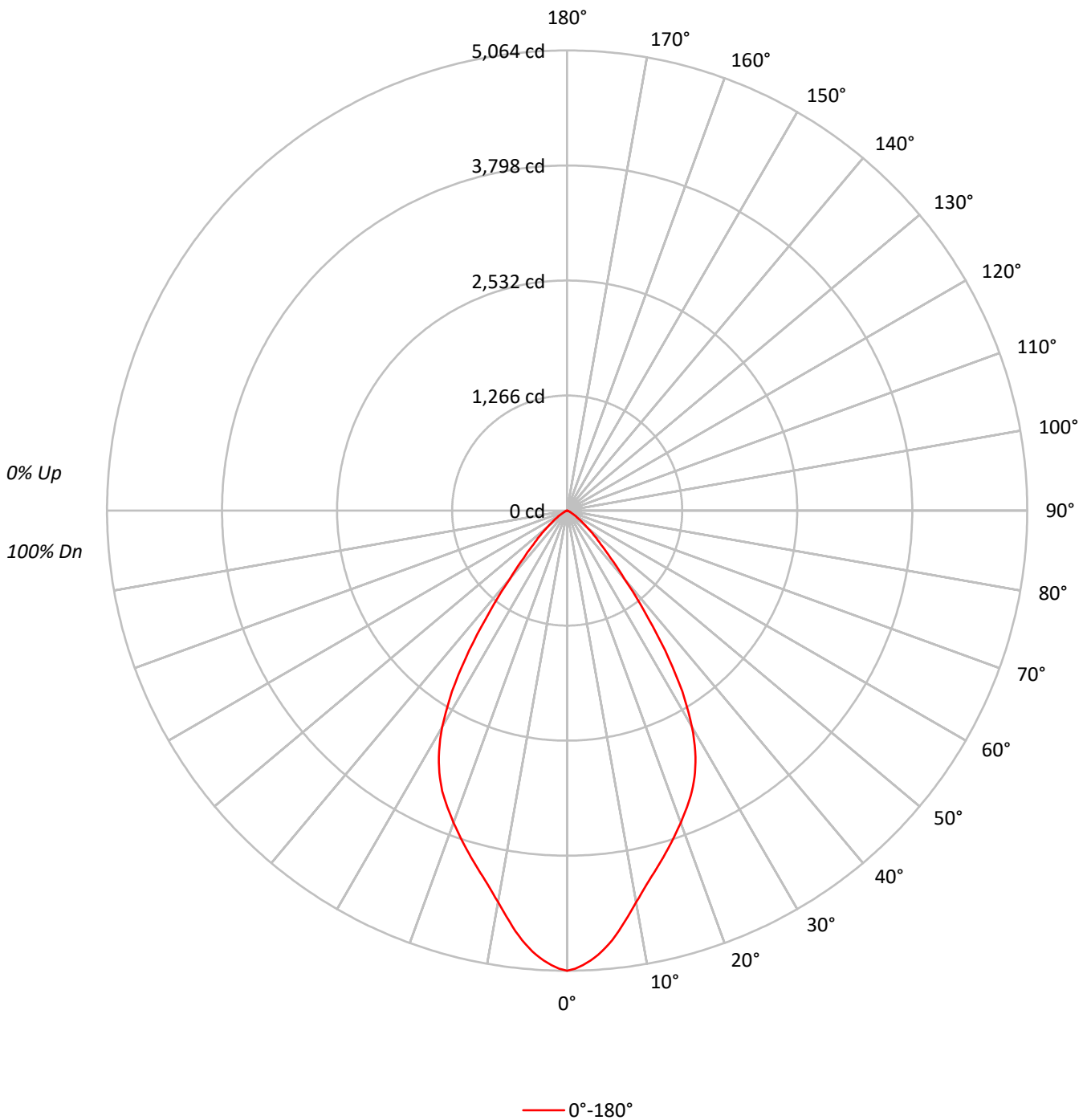
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	110	108	105	111	108	106	104	104	102	100		100	99	97		97	96	95	93
2	107	102	98	94	105	100	96	93	97	94	91		94	91	89		91	89	87	85
3	101	94	89	85	99	93	88	84	90	86	83		88	84	82		86	83	80	79
4	96	88	82	77	94	86	81	77	84	80	76		82	78	75		80	77	74	73
5	90	82	75	71	89	81	75	70	79	74	70		77	73	69		75	72	69	67
6	85	76	70	65	84	75	69	65	74	68	64		72	68	64		71	67	64	62
7	81	71	65	60	80	70	64	60	69	64	60		68	63	59		67	62	59	58
8	77	67	60	56	75	66	60	56	65	59	56		64	59	55		63	58	55	54
9	73	63	56	52	72	62	56	52	61	56	52		60	55	52		59	55	51	50
10	69	59	53	49	68	58	53	49	58	52	48		57	52	48		56	51	48	47

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

	0°
0°	156164
5°	149542
10°	137028
15°	127505
20°	119924
25°	112201
30°	97851
35°	70718
40°	39646
45°	22812
50°	13960
55°	7946
60°	4132
65°	2109
70°	1145
75°	691
80°	408
85°	425



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	446.1	9.2
10°-20°	1122.8	23.2
20°-30°	1498.1	31.0
30°-40°	1154.7	23.9
40°-50°	430.6	8.9
50°-60°	140.8	2.9
60°-70°	32.5	0.7
70°-80°	6.5	0.1
80°-90°	1.0	0.0
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°	3067.0	63.5
0°-40°	4221.7	87.4
0°-60°	4793.1	99.2
0°-90°	4833.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4833.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5064	
5°	4831	446
15°	3994	1123
25°	3298	1498
35°	1879	1155
45°	523	431
55°	148	141
65°	29	32
75°	6	7
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5064.3
1°	5042.4
2°	5005.5
3°	4958.1
4°	4900.4
5°	4831.1
6°	4752.6
7°	4662.5
8°	4566.7
9°	4467.4
10°	4376.2
11°	4288.4
12°	4206.4
13°	4131.4
14°	4062.1
15°	3994.0
16°	3924.7
17°	3857.7
18°	3788.4
19°	3720.3
20°	3654.5
21°	3586.4
22°	3520.6
23°	3451.3
24°	3378.5
25°	3297.7
26°	3208.8
27°	3110.7
28°	3002.1
29°	2880.9
30°	2748.1
32.5°	2359.0
35°	1878.6
37.5°	1391.4
40°	984.9
42.5°	705.5
45°	523.1
47.5°	393.7
50°	291.0
52.5°	207.8
55°	147.8
57.5°	101.6
60°	67.0
62.5°	43.9
65°	28.9



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	19.6
70°	12.7
72.5°	8.1
75°	5.8
77.5°	3.5
80°	2.3
82.5°	1.2
85°	1.2
87.5°	0.0
90°	0.0

(END OF REPORT)