

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: P250684

Luminaire Tested: **LD8B150D010 ER8B150940 8LBN0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250684  
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: LD8B150D010 ER8B150940 8LBN0MW  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 4000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12947.0 lumens  
Efficiency: N/A  
Efficacy: 81.7 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

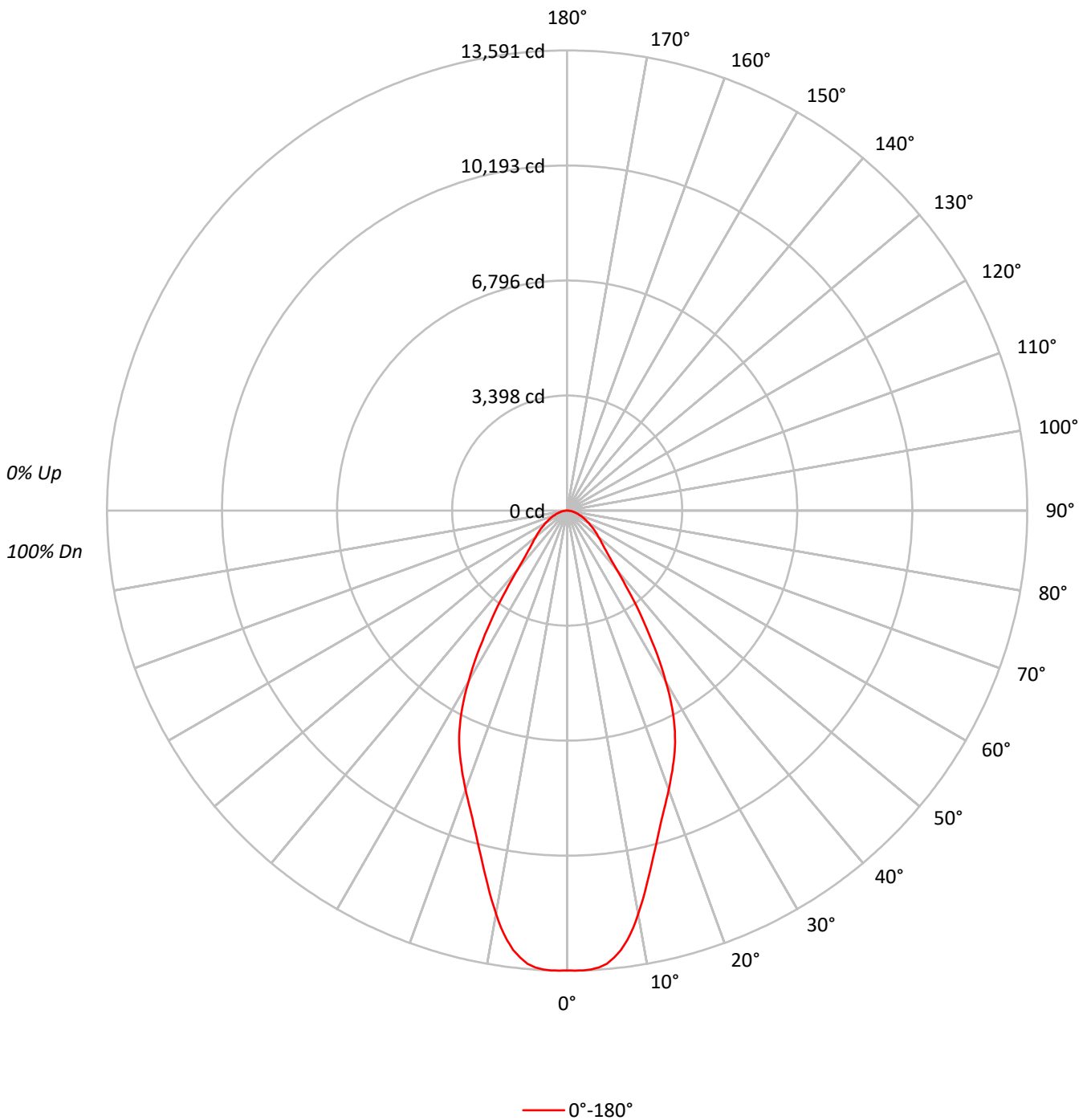
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P250684

CATALOG NUMBER: LD8B150D010 ER8B150940 8LBN0MW

### Luminous Intensity Polar Plot





TEST NUMBER: P250684

CATALOG NUMBER: LD8B150D010 ER8B150940 8LBN0MW

**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°	418853
5°	415850
10°	378879
15°	324828
20°	287800
25°	256800
30°	207402
35°	144008
40°	91300
45°	67738
50°	57874
55°	50864
60°	45348
65°	40693
70°	35018
75°	32002
80°	30064
85°	26323



TEST NUMBER: P250684

CATALOG NUMBER: LD8B150D010 ER8B150940 8LBN0MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1240.0	9.6
10°-20°	2861.0	22.1
20°-30°	3409.9	26.3
30°-40°	2407.0	18.6
40°-50°	1243.0	9.6
50°-60°	853.0	6.6
60°-70°	554.6	4.3
70°-80°	290.3	2.2
80°-90°	88.2	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°	7510.9	58.0
0°-40°	9917.9	76.6
0°-60°	12013.9	92.8
0°-90°	12947.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12947.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	13583	
5°	13434	###
15°	10175	2861
25°	7548	3410
35°	3826	2407
45°	1553	1243
55°	946	853
65°	558	555
75°	269	290
85°	74	88
90°	0	



TEST NUMBER: P250684

CATALOG NUMBER: LD8B150D010 ER8B150940 8LBN0MW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	13583.1
1°	13591.4
2°	13591.4
3°	13570.7
4°	13525.3
5°	13434.4
6°	13273.3
7°	13075.0
8°	12802.3
9°	12471.9
10°	12100.1
11°	11707.6
12°	11298.5
13°	10906.2
14°	10526.1
15°	10175.0
16°	9848.6
17°	9547.1
18°	9274.4
19°	9018.2
20°	8770.3
21°	8526.6
22°	8287.0
23°	8047.5
24°	7803.7
25°	7547.6
26°	7258.3
27°	6944.3
28°	6601.5
29°	6238.0
30°	5824.8
31°	5424.2
32°	5015.1
33°	4593.8
34°	4205.4
35°	3825.5
37.5°	2945.5
40°	2268.1
42.5°	1826.0
45°	1553.3
47.5°	1359.1
50°	1206.4
52.5°	1074.1
55°	946.1
57.5°	830.4



TEST NUMBER: P250684

CATALOG NUMBER: LD8B150D010 ER8B150940 8LBN0MW

**CANDELA DISTRIBUTION (continued):**

	0°
60°	735.3
62.5°	640.4
65°	557.7
67.5°	483.3
70°	388.4
72.5°	334.7
75°	268.6
77.5°	218.9
80°	169.3
82.5°	123.9
85°	74.4
87.5°	41.2
90°	0.0

(END OF REPORT)