

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: P250701

Luminaire Tested: **LD8B80D010 ER8B80930 8LBN0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250701  
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: LD8B80D010 ER8B80930 8LBN0MW  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 3000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6388.6 lumens  
Efficiency: N/A  
Efficacy: 85.9 lumens/watt  
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.85  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

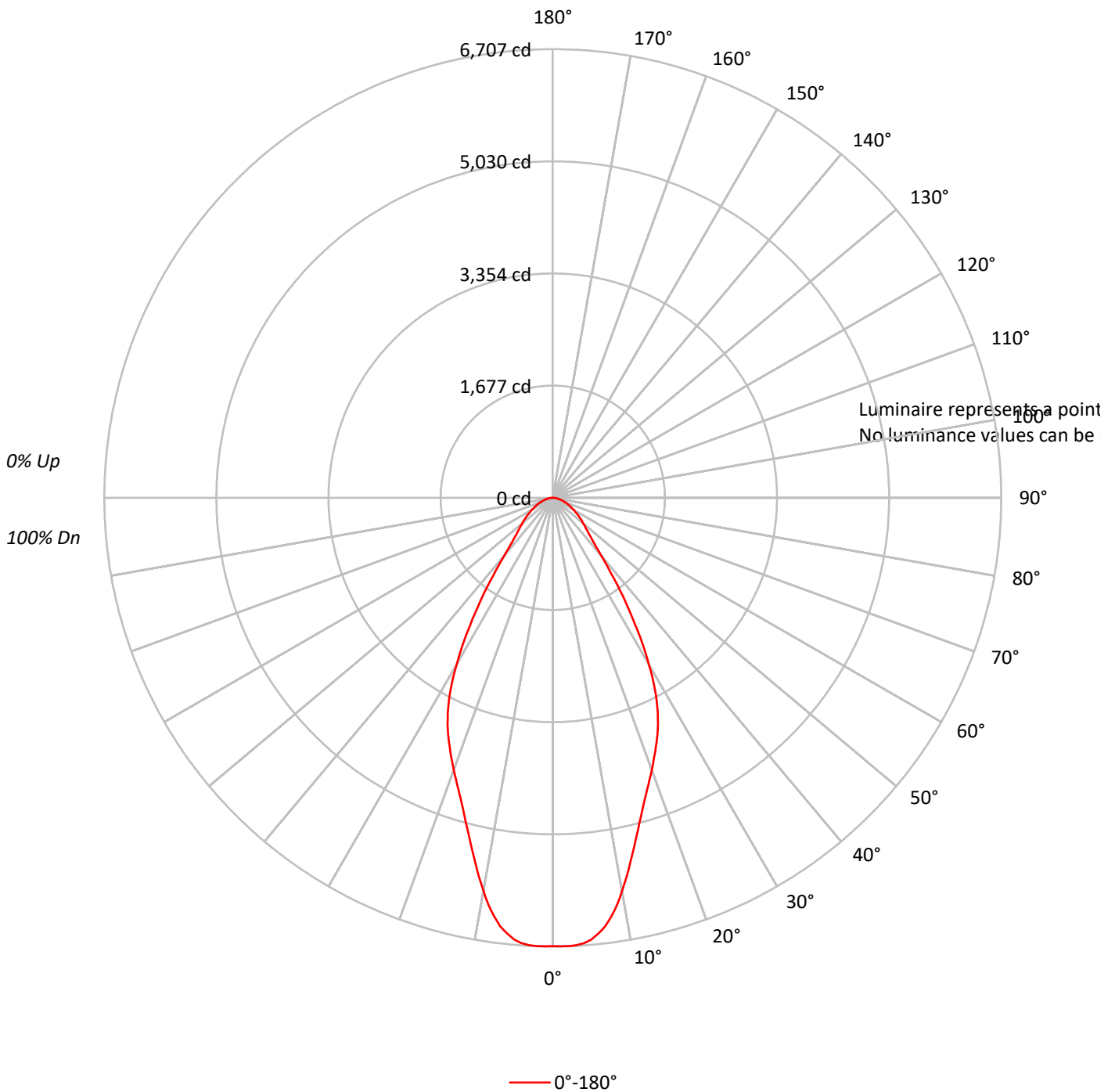
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P250701

CATALOG NUMBER: LD8B80D010 ER8B80930 8LBN0MW

### Luminous Intensity Polar Plot





TEST NUMBER: P250701

CATALOG NUMBER: LD8B80D010 ER8B80930 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):**





TEST NUMBER: P250701

CATALOG NUMBER: LD8B80D010 ER8B80930 8LBN0MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	611.8	9.6
10°-20°	1411.7	22.1
20°-30°	1682.6	26.3
30°-40°	1187.7	18.6
40°-50°	613.4	9.6
50°-60°	420.9	6.6
60°-70°	273.6	4.3
70°-80°	143.2	2.2
80°-90°	43.5	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°	3706.2	58.0
0°-40°	4893.9	76.6
0°-60°	5928.1	92.8
0°-90°	6388.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6388.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6702	
5°	6629	612
15°	5021	1412
25°	3724	1683
35°	1888	1188
45°	766	613
55°	467	421
65°	275	274
75°	132	143
85°	37	44
90°	0	



TEST NUMBER: P250701

CATALOG NUMBER: LD8B80D010 ER8B80930 8LBN0MW

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	6702.5
1°	6706.6
2°	6706.6
3°	6696.3
4°	6674.0
5°	6629.0
6°	6549.6
7°	6451.7
8°	6317.2
9°	6154.2
10°	5970.7
11°	5777.0
12°	5575.2
13°	5381.6
14°	5194.0
15°	5020.7
16°	4859.8
17°	4710.9
18°	4576.4
19°	4449.9
20°	4327.6
21°	4207.3
22°	4089.2
23°	3970.9
24°	3850.6
25°	3724.3
26°	3581.5
27°	3426.6
28°	3257.5
29°	3078.0
30°	2874.2
31°	2676.5
32°	2474.6
33°	2266.8
34°	2075.1
35°	1887.7
37.5°	1453.5
40°	1119.2
42.5°	901.1
45°	766.4
47.5°	670.6
50°	595.3
52.5°	530.0
55°	466.8
57.5°	409.7



TEST NUMBER: P250701

CATALOG NUMBER: LD8B80D010 ER8B80930 8LBN0MW

**CANDELA DISTRIBUTION (continued):**

	0°
60°	362.9
62.5°	316.0
65°	275.2
67.5°	238.4
70°	191.7
72.5°	165.1
75°	132.5
77.5°	108.0
80°	83.5
82.5°	61.2
85°	36.7
87.5°	20.4
90°	0.0

(END OF REPORT)