

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: P250093

Luminaire Tested: **LD8B90D010 ER8B90940 8LBNOWH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250093  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13946)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B90D010 ER8B90940 8LBN0WH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 4000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7801.0 lumens  
Efficiency: N/A  
Efficacy: 90.6 lumens/watt  
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.66  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

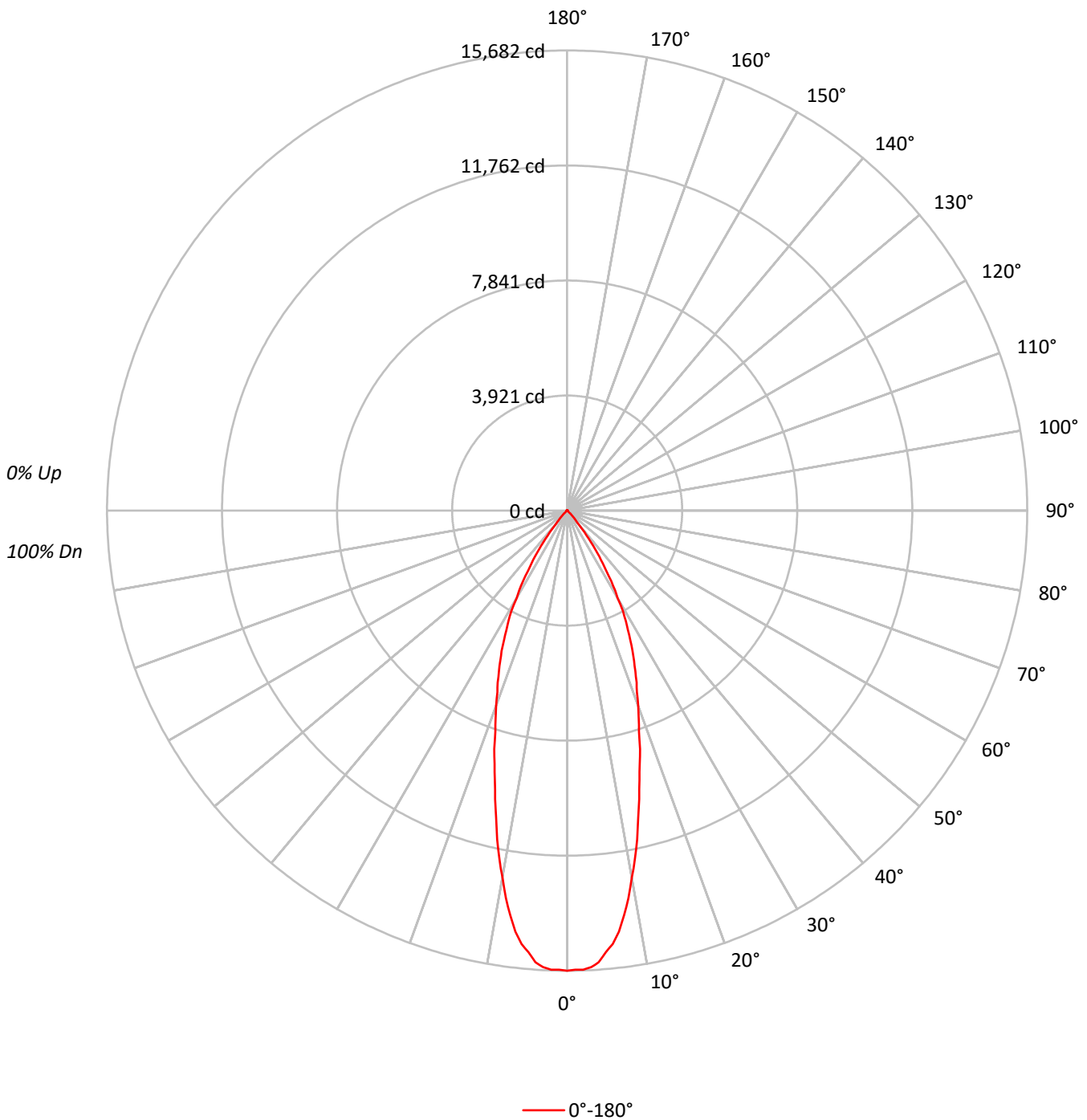
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	114	112	109	107	112	109	107	106	105	104	102		102	100	99		98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95		97	95	93		94	93	91	89
3	105	99	94	91	103	97	93	90	95	91	89		92	90	87		90	88	86	85
4	100	93	88	85	98	92	88	84	90	86	83		88	85	82		86	84	81	80
5	96	88	83	79	94	87	83	79	86	82	78		84	81	78		83	80	77	76
6	92	84	79	75	90	83	78	74	82	77	74		80	76	74		79	76	73	72
7	88	80	74	71	87	79	74	70	78	73	70		77	73	70		76	72	69	68
8	84	76	71	67	83	75	70	67	74	70	67		73	69	66		72	69	66	65
9	81	72	67	64	80	72	67	64	71	66	63		70	66	63		69	66	63	62
10	78	69	64	61	77	69	64	61	68	63	60		67	63	60		67	63	60	59

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

	0°
0°	483572
5°	467639
10°	397700
15°	303541
20°	231981
25°	179766
30°	122608
35°	72036
40°	22027
45°	8665
50°	130
55°	145
60°	167
65°	401
70°	739
75°	655
80°	479
85°	2901



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1369.6	17.6
10°-20°	2653.9	34.0
20°-30°	2389.4	30.6
30°-40°	1182.2	15.2
40°-50°	179.8	2.3
50°-60°	7.4	0.1
60°-70°	9.5	0.1
70°-80°	3.6	0.0
80°-90°	5.6	0.1
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°	6412.9	82.2
0°-40°	7595.1	97.4
0°-60°	7782.3	99.8
0°-90°	7801.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7801.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	15682	
5°	15108	###
15°	9508	2654
25°	5284	2389
35°	1914	1182
45°	199	180
55°	3	7
65°	6	10
75°	6	4
85°	8	6
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	15681.9
1°	15649.3
2°	15657.3
3°	15578.4
4°	15434.2
5°	15107.5
6°	14857.1
7°	14459.7
8°	13926.2
9°	13370.8
10°	12701.2
11°	12102.3
12°	11460.0
13°	10749.5
14°	10137.0
15°	9508.2
16°	8971.9
17°	8498.3
18°	7915.8
19°	7488.4
20°	7069.3
21°	6633.7
22°	6315.2
23°	5945.0
24°	5604.7
25°	5283.5
26°	4905.1
27°	4565.0
28°	4260.0
29°	3925.2
30°	3443.4
31°	3171.3
32°	2828.2
33°	2452.6
34°	2166.7
35°	1913.6
37.5°	1211.3
40°	547.2
42.5°	372.9
45°	198.7
47.5°	111.6
50°	2.7
52.5°	10.9
55°	2.7
57.5°	16.4



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	2.7
62.5°	13.7
65°	5.5
67.5°	13.7
70°	8.2
72.5°	2.7
75°	5.5
77.5°	0.0
80°	2.7
82.5°	10.9
85°	8.2
87.5°	0.0
90°	0.0

(END OF REPORT)