

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: P250429

Luminaire Tested: **LD8B90D010 ER8B90940 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250429
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13948)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B90D010 ER8B90940 8LBN0B
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 4000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4958.0 lumens
Efficiency: N/A
Efficacy: 57.6 lumens/watt
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.77
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

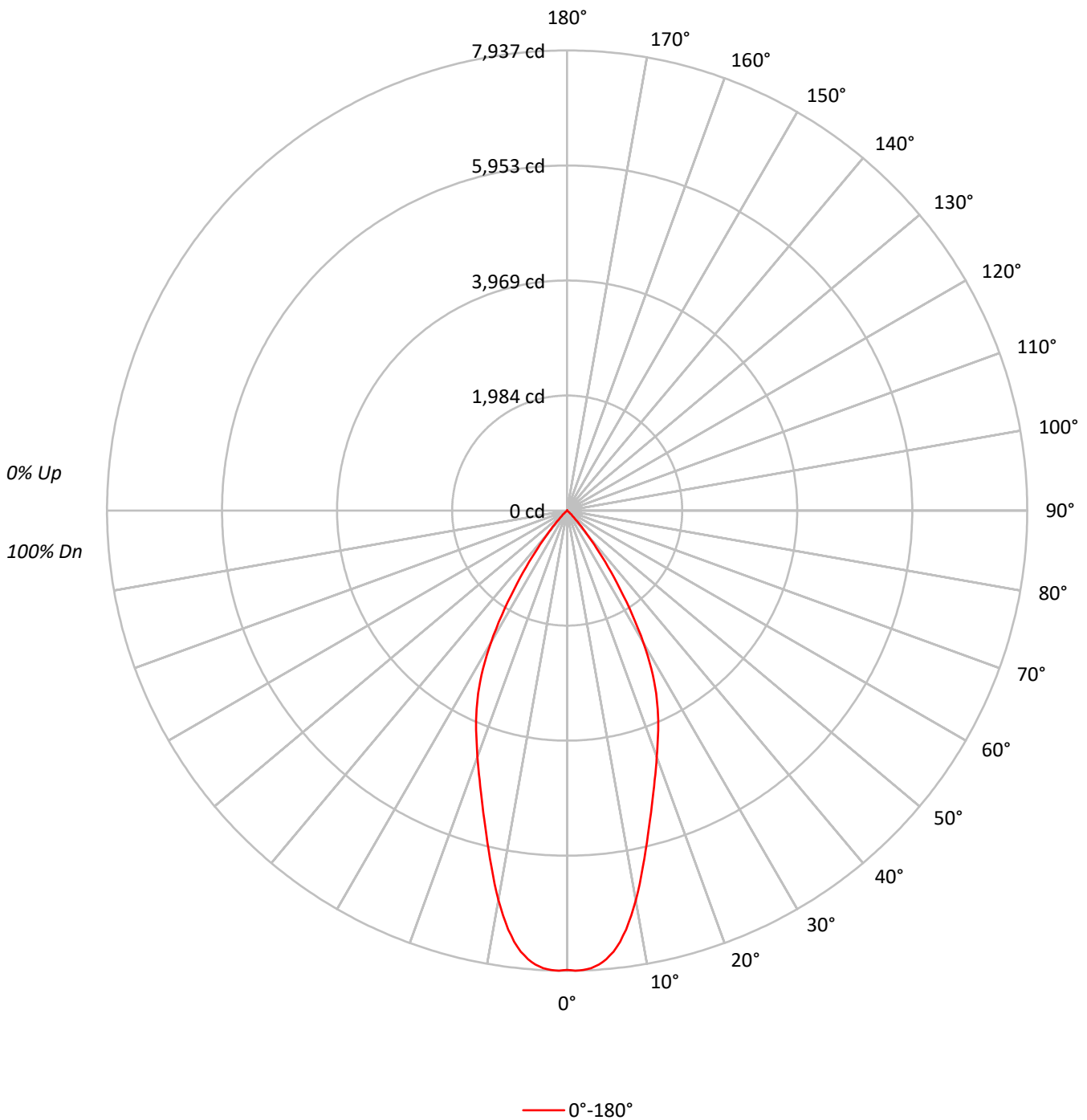
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P250429

CATALOG NUMBER: LD8B90D010 ER8B90940 8LBN0B

Luminous Intensity Polar Plot





TEST NUMBER: P250429

CATALOG NUMBER: LD8B90D010 ER8B90940 8LBN0B

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	111	109	107	112	109	107	105	105	104	102		101	100	99		98	97	96	94
2	109	104	101	97	107	103	99	96	99	97	94		96	94	92		94	92	90	89
3	104	98	93	90	102	97	92	89	94	90	88		92	89	86		89	87	85	83
4	99	92	87	83	97	91	86	83	89	85	82		87	84	81		85	82	80	78
5	95	87	82	78	93	86	81	77	84	80	77		83	79	76		81	78	75	74
6	90	82	77	73	89	81	76	72	80	75	72		79	75	71		77	74	71	70
7	86	78	72	68	85	77	72	68	76	71	68		75	71	67		74	70	67	66
8	83	74	68	64	81	73	68	64	72	67	64		71	67	64		70	66	63	62
9	79	70	65	61	78	70	64	61	69	64	61		68	63	60		67	63	60	59
10	76	67	61	58	75	66	61	58	65	61	57		65	60	57		64	60	57	56

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	244298
5°	240393
10°	213586
15°	176189
20°	148384
25°	125154
30°	93710
35°	53033
40°	20968
45°	5630
50°	1079
55°	0
60°	154
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P250429

CATALOG NUMBER: LD8B90D010 ER8B90940 8LBN0B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	711.2	14.3
10°-20°	1545.7	31.2
20°-30°	1659.5	33.5
30°-40°	896.9	18.1
40°-50°	139.9	2.8
50°-60°	3.8	0.1
60°-70°	0.9	0.0
70°-80°	0.0	0.0
80°-90°	0.0	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°	3916.4	79.0
0°-40°	4813.3	97.1
0°-60°	4957.0	100.0
0°-90°	4958.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4958.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7922	
5°	7766	711
15°	5519	1546
25°	3678	1659
35°	1409	897
45°	129	140
55°	0	4
65°	0	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P250429

CATALOG NUMBER: LD8B90D010 ER8B90940 8LBN0B

CANDELA DISTRIBUTION (FULL):

0°	
0°	7922.4
1°	7937.4
2°	7930.0
3°	7902.8
4°	7850.6
5°	7766.1
6°	7649.8
7°	7493.3
8°	7297.4
9°	7071.9
10°	6821.2
11°	6558.2
12°	6285.3
13°	6012.8
14°	5759.5
15°	5519.0
16°	5298.2
17°	5084.8
18°	4886.4
19°	4700.6
20°	4521.8
21°	4348.2
22°	4184.3
23°	4020.9
24°	3849.7
25°	3678.4
26°	3504.8
27°	3306.4
28°	3088.0
29°	2865.1
30°	2631.8
31°	2381.3
32°	2130.6
33°	1882.6
34°	1632.1
35°	1408.8
37.5°	900.4
40°	520.9
42.5°	277.9
45°	129.1
47.5°	69.6
50°	22.5
52.5°	2.5
55°	0.0
57.5°	2.5



TEST NUMBER: P250429

CATALOG NUMBER: LD8B90D010 ER8B90940 8LBN0B

CANDELA DISTRIBUTION (continued):

	0°
60°	2.5
62.5°	0.0
65°	0.0
67.5°	2.5
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)