

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: P250422

Luminaire Tested: **LD8B90D010 ER8B90935 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250422
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 ER8B90935 8LBN0B
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 3500 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4747.0 lumens
Efficiency: N/A
Efficacy: 55.1 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

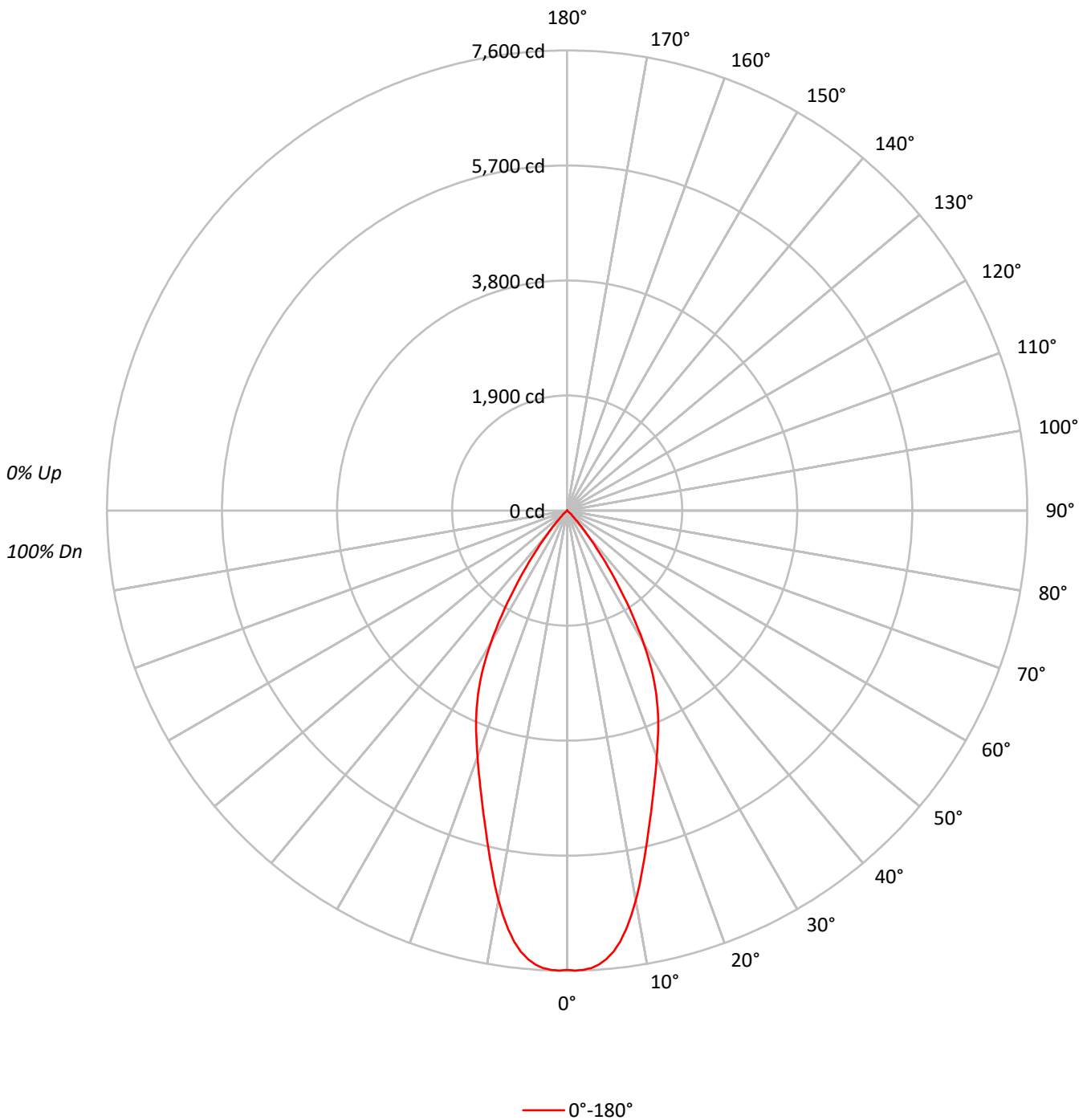
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P250422

CATALOG NUMBER: LD8B90D010 ER8B90935 8LBN0B

Luminous Intensity Polar Plot





TEST NUMBER: P250422

CATALOG NUMBER: LD8B90D010 ER8B90935 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°	233900
5°	230162
10°	204496
15°	168690
20°	142071
25°	119830
30°	89722
35°	50774
40°	20079
45°	5390
50°	1031
55°	0
60°	148
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P250422

CATALOG NUMBER: LD8B90D010 ER8B90935 8LBN0B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	680.9	14.3
10°-20°	1480.0	31.2
20°-30°	1588.8	33.5
30°-40°	858.7	18.1
40°-50°	134.0	2.8
50°-60°	3.7	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°	3749.7	79.0
0°-40°	4608.5	97.1
0°-60°	4746.1	100.0
0°-90°	4747.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4747.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7585	
5°	7436	681
15°	5284	1480
25°	3522	1589
35°	1349	859
45°	124	134
55°	0	4
65°	0	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P250422

CATALOG NUMBER: LD8B90D010 ER8B90935 8LBN0B

CANDELA DISTRIBUTION (FULL):

0°	
0°	7585.2
1°	7599.6
2°	7592.5
3°	7566.5
4°	7516.5
5°	7435.6
6°	7324.2
7°	7174.4
8°	6986.8
9°	6770.9
10°	6530.9
11°	6279.1
12°	6017.9
13°	5756.9
14°	5514.4
15°	5284.1
16°	5072.7
17°	4868.4
18°	4678.4
19°	4500.5
20°	4329.4
21°	4163.1
22°	4006.3
23°	3849.8
24°	3685.9
25°	3521.9
26°	3355.6
27°	3165.7
28°	2956.6
29°	2743.2
30°	2519.8
31°	2280.0
32°	2039.9
33°	1802.5
34°	1562.7
35°	1348.8
37.5°	862.1
40°	498.8
42.5°	266.1
45°	123.6
47.5°	66.6
50°	21.5
52.5°	2.4
55°	0.0
57.5°	2.4



TEST NUMBER: P250422

CATALOG NUMBER: LD8B90D010 ER8B90935 8LBN0B

CANDELA DISTRIBUTION (continued):

	0°
60°	2.4
62.5°	0.0
65°	0.0
67.5°	2.4
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)