

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: P250937

Luminaire Tested: **LD8B70D010 ER8B70827 8LBN0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250937
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27944)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B70D010 ER8B70827 8LBN0H
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6397.0 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.79
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

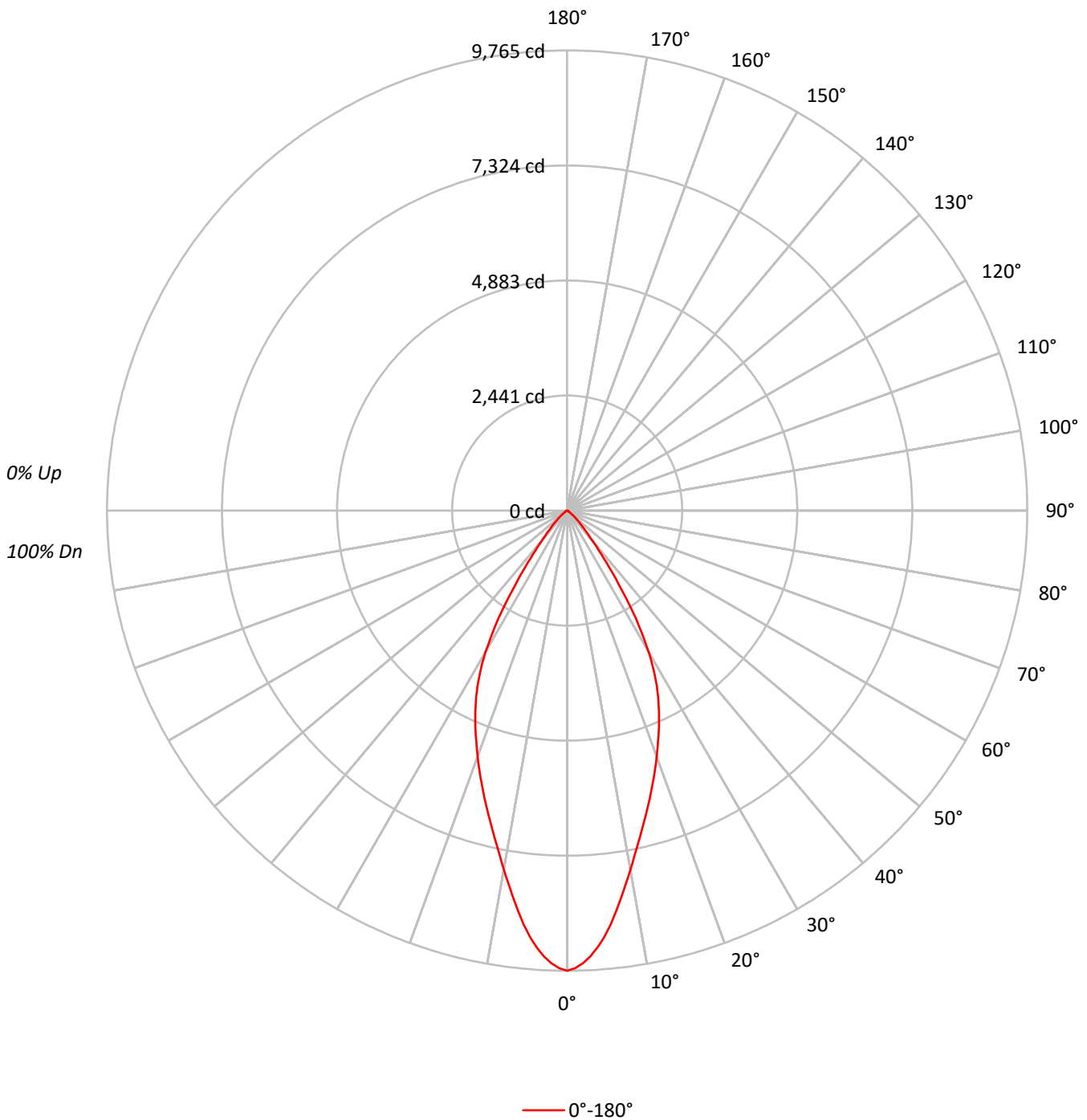
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P250937

CATALOG NUMBER: LD8B70D010 ER8B70827 8LBN0H

Luminous Intensity Polar Plot





TEST NUMBER: P250937

CATALOG NUMBER: LD8B70D010 ER8B70827 8LBN0H

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	106	111	109	107	105	105	103	101		101	100	98		98	97	96	94
2	108	104	100	96	106	102	98	95	99	96	93		96	93	91		93	91	89	88
3	103	97	92	88	101	95	91	87	93	89	86		90	87	85		88	86	83	82
4	98	91	85	81	96	90	85	81	87	83	80		85	82	79		84	80	78	76
5	93	85	79	75	92	84	79	75	82	78	74		81	77	74		79	76	73	72
6	89	80	74	70	87	79	74	70	78	73	69		76	72	69		75	71	69	67
7	85	76	70	66	83	75	69	65	74	69	65		72	68	65		71	67	64	63
8	81	71	66	62	79	71	65	61	70	65	61		69	64	61		68	64	61	59
9	77	68	62	58	76	67	62	58	66	61	58		65	61	58		64	60	57	56
10	74	64	59	55	73	64	58	55	63	58	55		62	58	54		61	57	54	53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	301120
5°	280868
10°	242108
15°	209527
20°	182269
25°	156640
30°	123082
35°	71810
40°	33133
45°	17147
50°	8602
55°	4183
60°	2134
65°	1262
70°	586
75°	512
80°	391
85°	0



TEST NUMBER: P250937

CATALOG NUMBER: LD8B70D010 ER8B70827 8LBN0H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	821.2	12.8
10°-20°	1835.1	28.7
20°-30°	2086.4	32.6
30°-40°	1225.3	19.2
40°-50°	328.8	5.1
50°-60°	78.0	1.2
60°-70°	17.8	0.3
70°-80°	4.0	0.1
80°-90°	0.3	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°	4742.7	74.1
0°-40°	5968.1	93.3
0°-60°	6374.9	99.7
0°-90°	6397.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6397.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9765	
5°	9074	821
15°	6563	1835
25°	4604	2086
35°	1908	1225
45°	393	329
55°	78	78
65°	17	18
75°	4	4
85°	0	0
90°	0	



TEST NUMBER: P250937

CATALOG NUMBER: LD8B70D010 ER8B70827 8LBN0H

CANDELA DISTRIBUTION (FULL):

0°	
0°	9765.1
1°	9711.1
2°	9611.7
3°	9471.3
4°	9289.8
5°	9073.7
6°	8829.6
7°	8553.1
8°	8276.6
9°	7997.9
10°	7732.1
11°	7472.9
12°	7228.8
13°	7001.9
14°	6775.1
15°	6563.3
16°	6355.9
17°	6150.7
18°	5951.9
19°	5751.0
20°	5554.4
21°	5357.8
22°	5169.9
23°	4984.1
24°	4794.0
25°	4603.8
26°	4407.2
27°	4193.4
28°	3968.7
29°	3722.4
30°	3456.7
32.5°	2711.3
35°	1907.6
37.5°	1257.4
40°	823.1
42.5°	568.2
45°	393.2
47.5°	270.1
50°	179.3
52.5°	116.7
55°	77.8
57.5°	51.8
60°	34.6
62.5°	23.8
65°	17.3



TEST NUMBER: P250937

CATALOG NUMBER: LD8B70D010 ER8B70827 8LBN0H

CANDELA DISTRIBUTION (continued):

	0°
67.5°	10.8
70°	6.5
72.5°	4.3
75°	4.3
77.5°	2.2
80°	2.2
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)