

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: P251143

Luminaire Tested: **LD8B70D010 ER8B70935 8LBNOWH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251143
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: LD8B70D010 ER8B70935 8LBN0WH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5989.0 lumens
Efficiency: N/A
Efficacy: 78.9 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

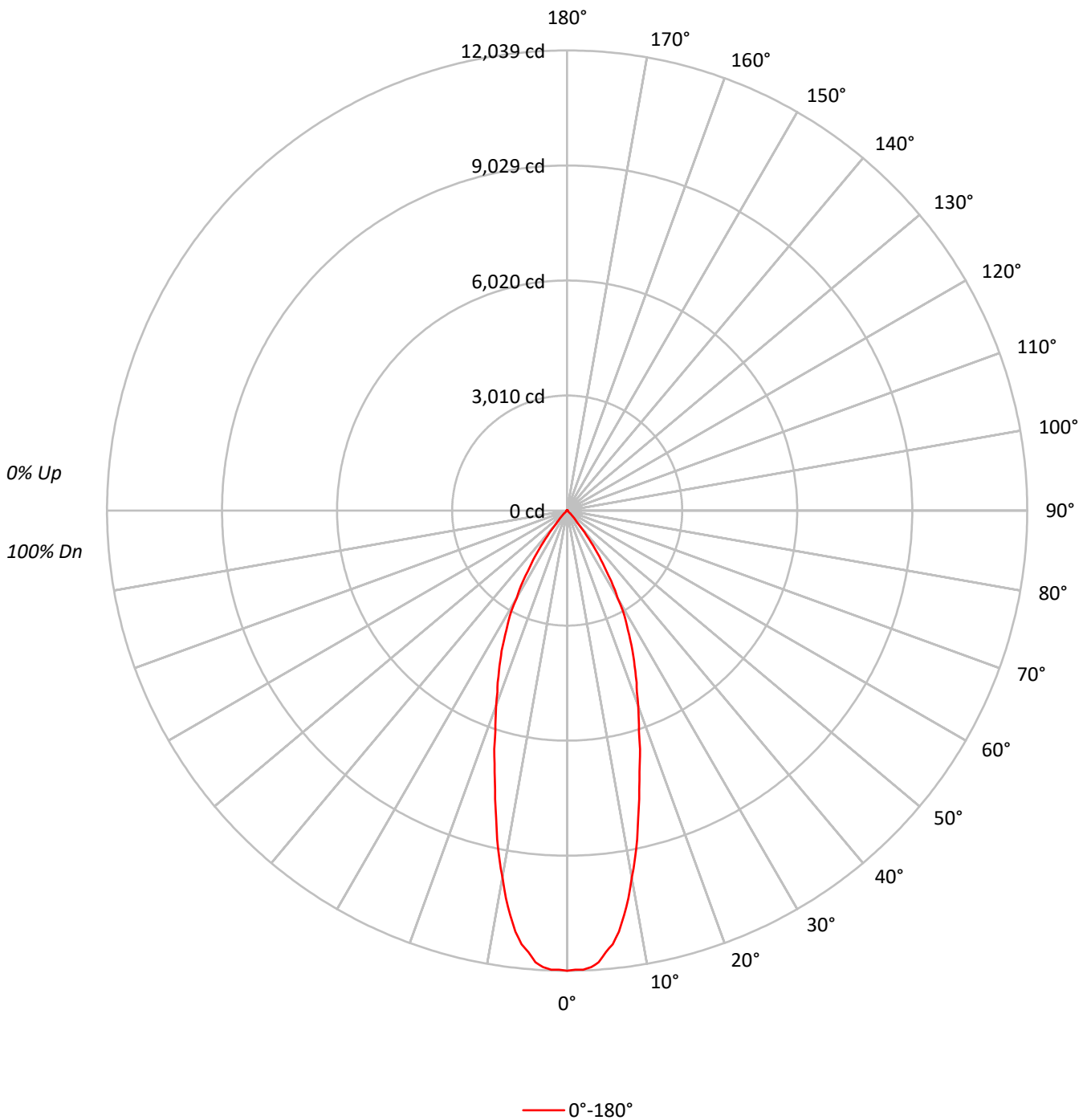
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P251143

CATALOG NUMBER: LD8B70D010 ER8B70935 8LBN0WH

Luminous Intensity Polar Plot





TEST NUMBER: P251143

CATALOG NUMBER: LD8B70D010 ER8B70935 8LBN0WH

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°	371248
5°	359018
10°	305323
15°	233033
20°	178095
25°	138012
30°	94130
35°	55303
40°	16911
45°	6650
50°	101
55°	113
60°	130
65°	306
70°	568
75°	500
80°	373
85°	2229



TEST NUMBER: P251143

CATALOG NUMBER: LD8B70D010 ER8B70935 8LBN0WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1051.5	17.6
10°-20°	2037.5	34.0
20°-30°	1834.4	30.6
30°-40°	907.6	15.2
40°-50°	138.1	2.3
50°-60°	5.7	0.1
60°-70°	7.3	0.1
70°-80°	2.8	0.0
80°-90°	4.3	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°	4923.4	82.2
0°-40°	5830.9	97.4
0°-60°	5974.7	99.8
0°-90°	5989.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5989.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	12039	
5°	11598	###
15°	7300	2037
25°	4056	1834
35°	1469	908
45°	152	138
55°	2	6
65°	4	7
75°	4	3
85°	6	4
90°	0	



TEST NUMBER: P251143

CATALOG NUMBER: LD8B70D010 ER8B70935 8LBN0WH

CANDELA DISTRIBUTION (FULL):

	0°
0°	12039.3
1°	12014.3
2°	12020.5
3°	11959.9
4°	11849.2
5°	11598.4
6°	11406.1
7°	11101.0
8°	10691.4
9°	10265.1
10°	9751.0
11°	9291.2
12°	8798.1
13°	8252.6
14°	7782.4
15°	7299.6
16°	6887.9
17°	6524.4
18°	6077.1
19°	5749.0
20°	5427.2
21°	5092.8
22°	4848.3
23°	4564.1
24°	4302.9
25°	4056.3
26°	3765.8
27°	3504.6
28°	3270.5
29°	3013.5
30°	2643.6
31°	2434.6
32°	2171.3
33°	1882.9
34°	1663.5
35°	1469.1
37.5°	929.9
40°	420.1
42.5°	286.3
45°	152.5
47.5°	85.7
50°	2.1
52.5°	8.4
55°	2.1
57.5°	12.6



TEST NUMBER: P251143

CATALOG NUMBER: LD8B70D010 ER8B70935 8LBN0WH

CANDELA DISTRIBUTION (continued):

	0°
60°	2.1
62.5°	10.5
65°	4.2
67.5°	10.5
70°	6.3
72.5°	2.1
75°	4.2
77.5°	0.0
80°	2.1
82.5°	8.4
85°	6.3
87.5°	0.0
90°	0.0

(END OF REPORT)