

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: FAIL-SAFE

Report Number: P236170

Luminaire Tested: **FLD6BX10D010 EU6B1/28040 F6LBXVM1LIBL86**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236170
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35319)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD6BX10D010 EU6B1/28040 F6LBXVM1LIBL86
Description: FAILSAFE 6 INCH RECESSED LED DOWNLIGHT
6" LED Vandal Resistant, Medium (50° Beam), Specular Clear, Bottom lens,
0.250" clear polycarbonate
Light Source: (1) 4000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 827.4 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.91
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

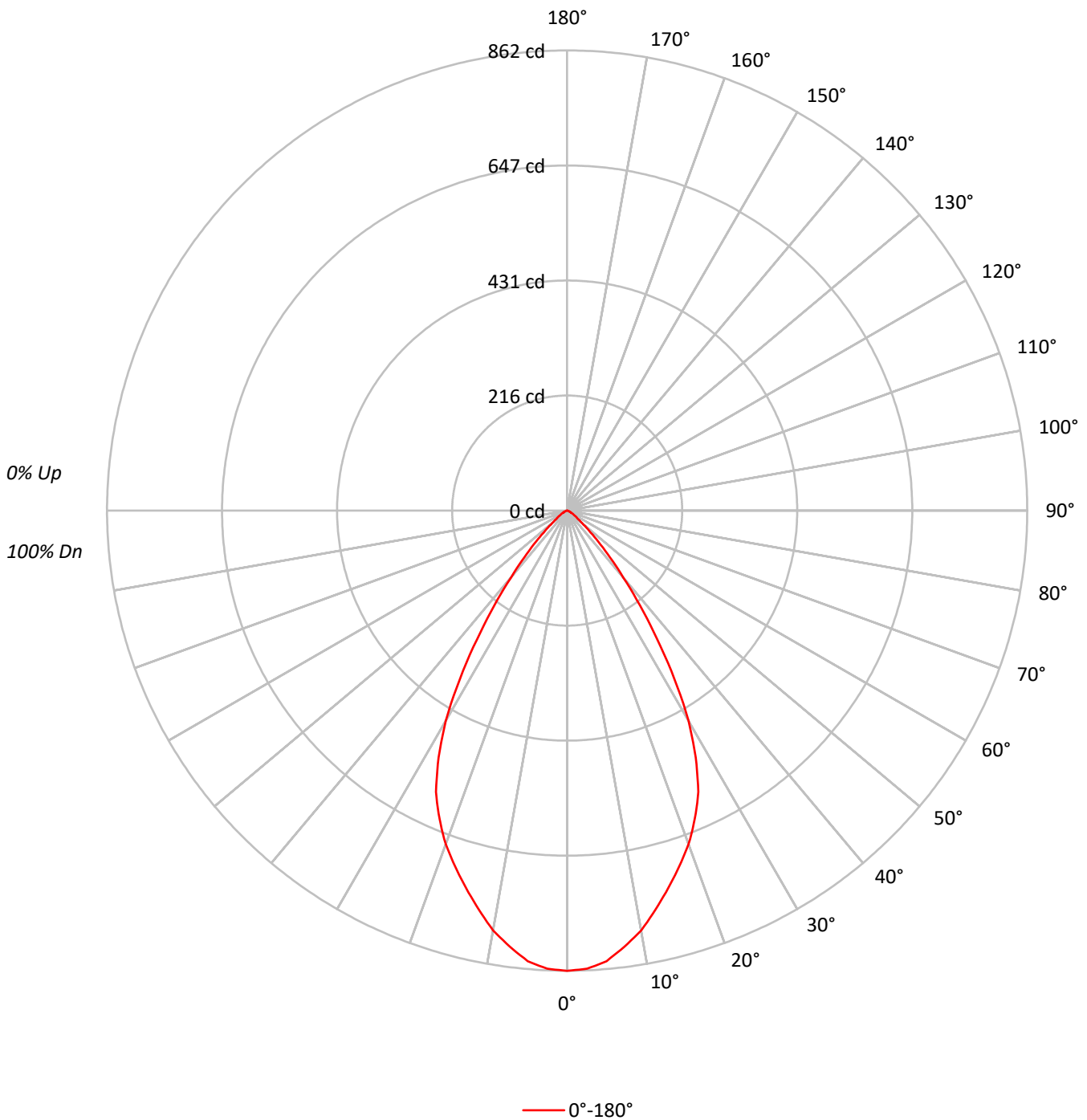
Input Watts (W): 9.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86
3	102	95	90	85	99	93	89	85	91	87	83	88	85	82	86	83	81	79
4	96	88	82	78	94	87	82	77	85	80	77	83	79	76	81	78	75	73
5	91	82	76	72	89	81	76	71	79	74	71	78	73	70	76	72	69	68
6	86	77	71	66	85	76	70	66	74	69	65	73	68	65	72	68	64	63
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59
8	77	68	61	57	76	67	61	57	66	60	57	65	60	56	64	59	56	55
9	74	64	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51
10	70	60	54	50	69	59	54	50	59	53	50	58	53	49	57	53	49	48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	56250
5°	55483
10°	52912
15°	49434
20°	46169
25°	41859
30°	34239
35°	23423
40°	13950
45°	7556
50°	3735
55°	2286
60°	1527
65°	1034
70°	629
75°	429
80°	639
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.2	9.6
10°-20°	205.5	24.8
20°-30°	261.9	31.6
30°-40°	185.1	22.4
40°-50°	67.6	8.2
50°-60°	18.7	2.3
60°-70°	6.8	0.8
70°-80°	2.4	0.3
80°-90°	0.2	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°	546.6	66.1
0°-40°	731.7	88.4
0°-60°	818.0	98.9
0°-90°	827.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	827.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	862	
5°	847	79
15°	732	206
25°	582	262
35°	294	185
45°	82	68
55°	20	19
65°	7	7
75°	2	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	862.2
2.5°	858.9
5°	847.2
7.5°	823.8
10°	798.7
12.5°	765.3
15°	731.9
17.5°	698.4
20°	665.0
22.5°	624.9
25°	581.5
27.5°	521.3
30°	454.5
32.5°	374.3
35°	294.1
37.5°	223.9
40°	163.8
42.5°	118.6
45°	81.9
47.5°	55.1
50°	36.8
52.5°	25.1
55°	20.1
57.5°	15.0
60°	11.7
62.5°	8.4
65°	6.7
67.5°	5.0
70°	3.3
72.5°	3.3
75°	1.7
77.5°	1.7
80°	1.7
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)