

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: P236175

Luminaire Tested: **FLD6BX50D010 EU6B3/58040 F6LBXVM1LIBL86**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236175
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: FLD6BX50D010 EU6B3/58040 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: 4161.3 lumens
Efficiency: N/A
Efficacy: 70.8 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

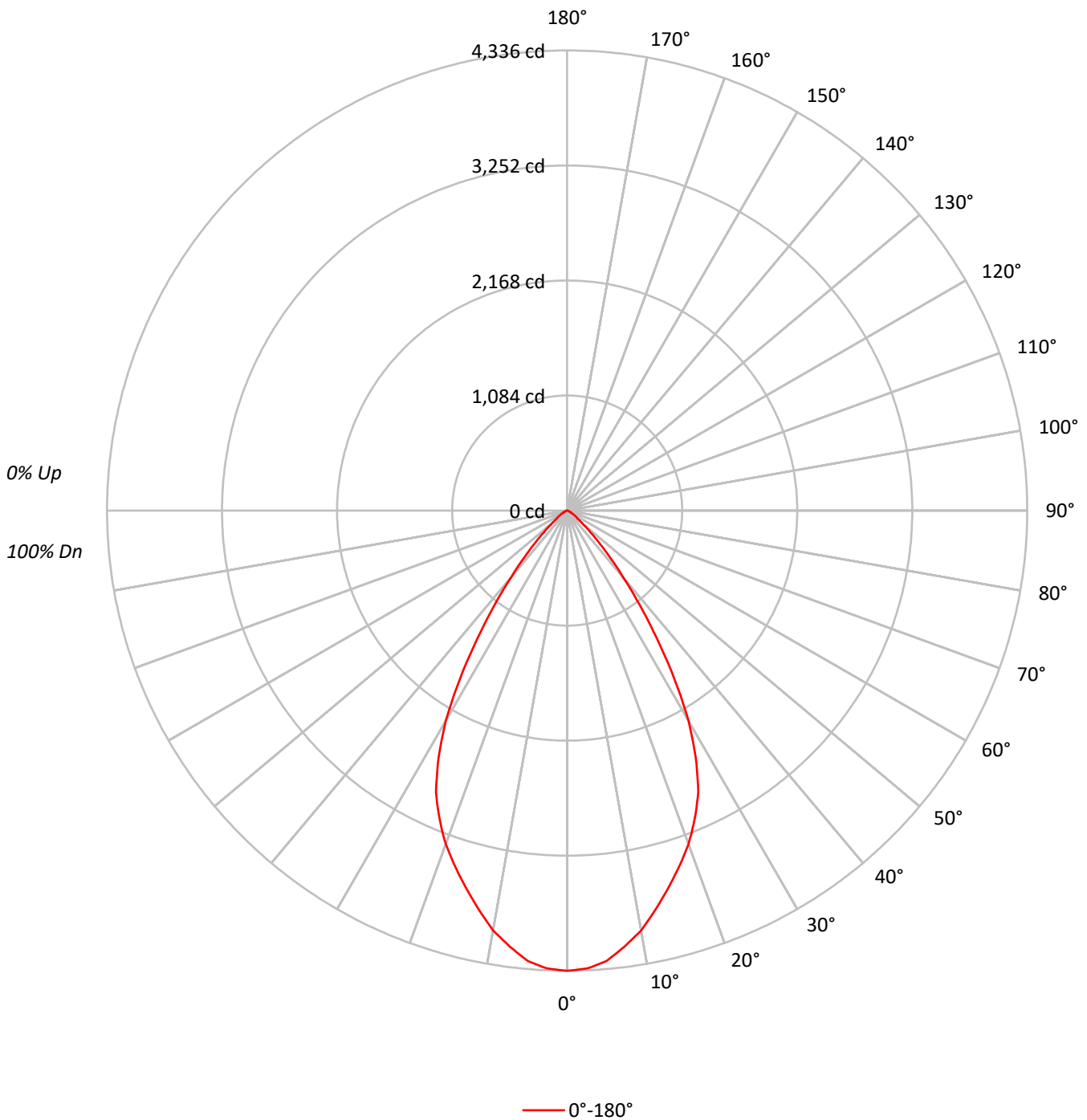
Input Watts (W): 58.77
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	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°	282909
5°	279033
10°	266114
15°	248616
20°	232215
25°	210520
30°	172197
35°	117802
40°	70142
45°	37994
50°	18767
55°	11465
60°	7672
65°	5187
70°	3205
75°	2117
80°	3156
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.3	9.6
10°-20°	1033.7	24.8
20°-30°	1317.0	31.6
30°-40°	930.8	22.4
40°-50°	339.8	8.2
50°-60°	94.2	2.3
60°-70°	34.1	0.8
70°-80°	12.2	0.3
80°-90°	1.1	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°	2749.1	66.1
0°-40°	3679.9	88.4
0°-60°	4113.9	98.9
0°-90°	4161.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4161.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4336	
5°	4261	398
15°	3681	1034
25°	2924	1317
35°	1479	931
45°	412	340
55°	101	94
65°	34	34
75°	8	12
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4336.4
2.5°	4319.5
5°	4260.7
7.5°	4143.1
10°	4017.0
12.5°	3848.9
15°	3680.9
17.5°	3512.8
20°	3344.7
22.5°	3143.0
25°	2924.5
27.5°	2622.0
30°	2285.8
32.5°	1882.4
35°	1479.1
37.5°	1126.1
40°	823.6
42.5°	596.7
45°	411.8
47.5°	277.3
50°	184.9
52.5°	126.1
55°	100.8
57.5°	75.6
60°	58.8
62.5°	42.0
65°	33.6
67.5°	25.2
70°	16.8
72.5°	16.8
75°	8.4
77.5°	8.4
80°	8.4
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)