

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: P236173

Luminaire Tested: **FLD6BX30D010 EU6B3/58040 F6LBXVM1LIBL86**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236173
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: FLD6BX30D010 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: 2300.7 lumens
Efficiency: N/A
Efficacy: 82.2 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

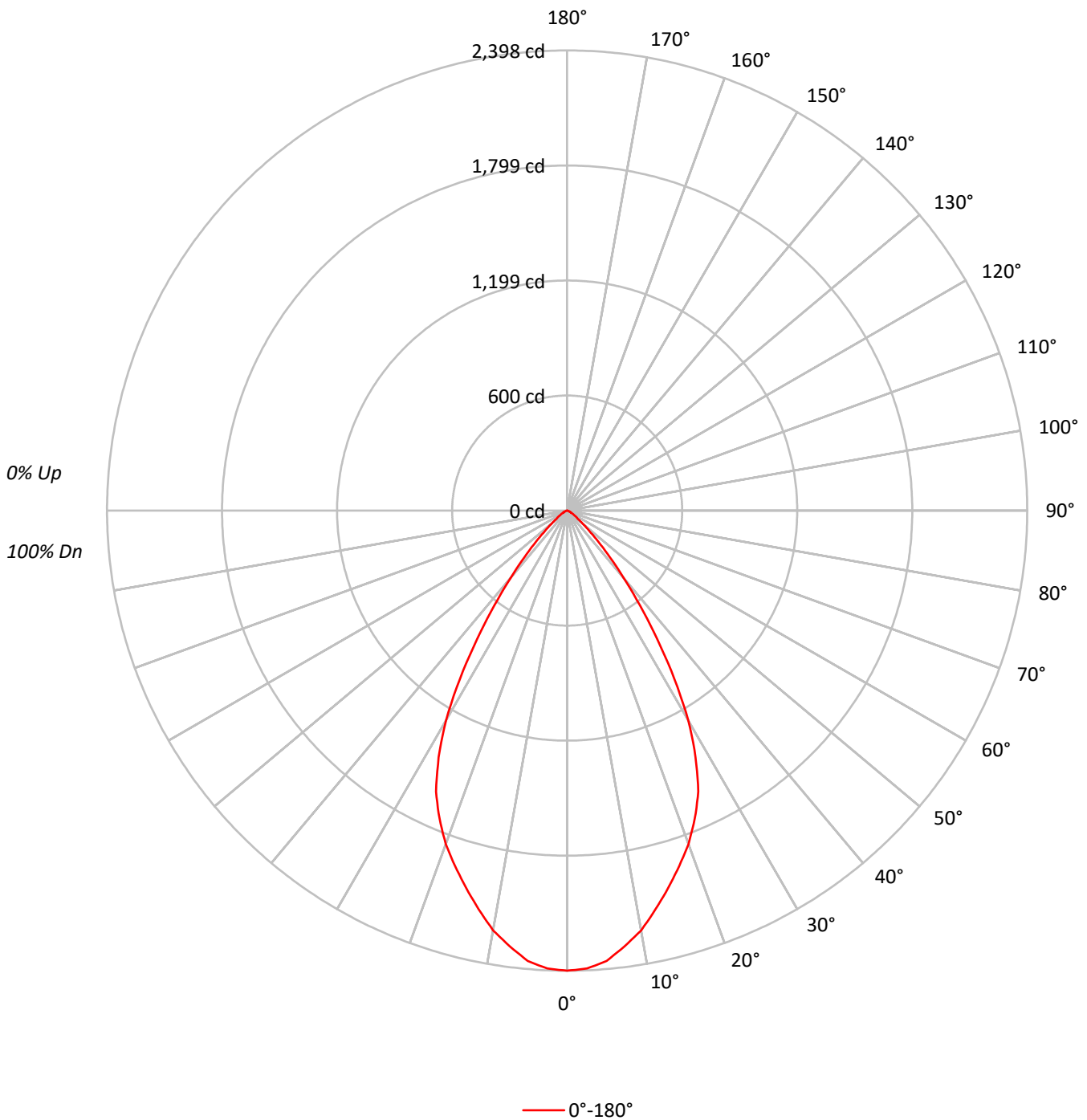
Input Watts (W): 28
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	156414
5°	154274
10°	147135
15°	137455
20°	128386
25°	116393
30°	95206
35°	65133
40°	38776
45°	21009
50°	10373
55°	6347
60°	4241
65°	2871
70°	1774
75°	1160
80°	1728
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.2	9.6
10°-20°	571.5	24.8
20°-30°	728.2	31.7
30°-40°	514.6	22.4
40°-50°	187.9	8.2
50°-60°	52.1	2.3
60°-70°	18.9	0.8
70°-80°	6.7	0.3
80°-90°	0.6	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°	1519.9	66.1
0°-40°	2034.6	88.4
0°-60°	2274.5	98.9
0°-90°	2300.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2300.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2398	
5°	2356	220
15°	2035	572
25°	1617	728
35°	818	515
45°	228	188
55°	56	52
65°	19	19
75°	5	7
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2397.5
2.5°	2388.2
5°	2355.7
7.5°	2290.6
10°	2221.0
12.5°	2128.0
15°	2035.1
17.5°	1942.2
20°	1849.2
22.5°	1737.7
25°	1616.9
27.5°	1449.7
30°	1263.8
32.5°	1040.8
35°	817.8
37.5°	622.6
40°	455.3
42.5°	329.9
45°	227.7
47.5°	153.3
50°	102.2
52.5°	69.7
55°	55.8
57.5°	41.8
60°	32.5
62.5°	23.2
65°	18.6
67.5°	13.9
70°	9.3
72.5°	9.3
75°	4.6
77.5°	4.6
80°	4.6
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)