

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: P236159

Luminaire Tested: **FLD6BX50D010 EU6B3/58040 F6LBXVM1LIBL84**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236159
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 F6LBXVM1LIBL84
Description: FAILSAFE 6 INCH RECESSED LED DOWNLIGHT
6" LED Vandal Resistant, Medium (50° Beam), Specular Clear, Bottom lens,
0.125" clear polycarbonate
Light Source: (1) 4000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4260.4 lumens
Efficiency: N/A
Efficacy: 72.5 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

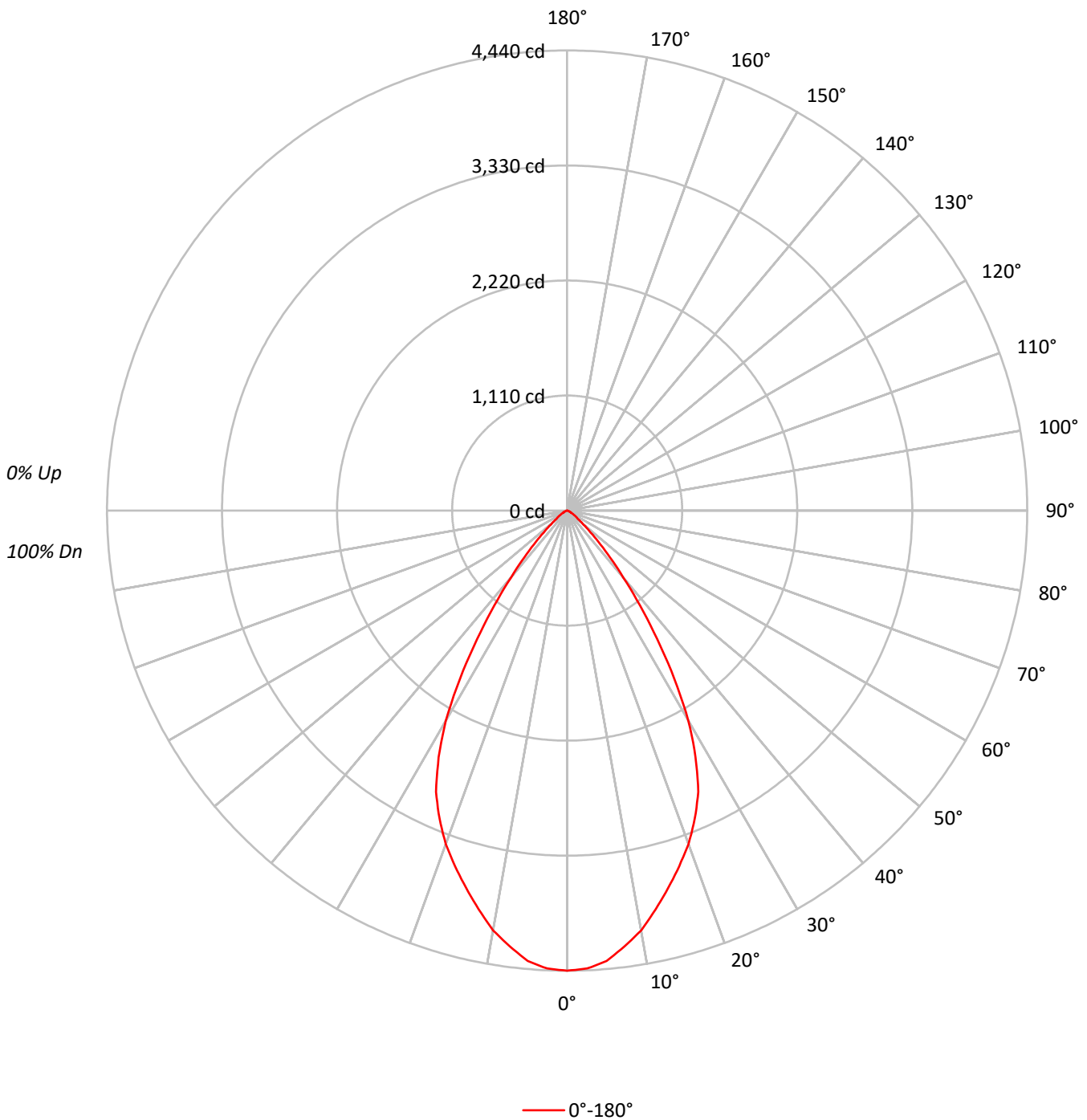
Input Watts (W): 58.77
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	289642
5°	285680
10°	272454
15°	254532
20°	237741
25°	215530
30°	176303
35°	120605
40°	71812
45°	38899
50°	19213
55°	11738
60°	7855
65°	5310
70°	3281
75°	2168
80°	3231
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.8	9.6
10°-20°	1058.3	24.8
20°-30°	1348.4	31.6
30°-40°	953.0	22.4
40°-50°	347.9	8.2
50°-60°	96.4	2.3
60°-70°	35.0	0.8
70°-80°	12.5	0.3
80°-90°	1.2	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°	2814.6	66.1
0°-40°	3767.5	88.4
0°-60°	4211.8	98.9
0°-90°	4260.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4260.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4440	
5°	4362	408
15°	3768	1058
25°	2994	1348
35°	1514	953
45°	422	348
55°	103	96
65°	34	35
75°	9	12
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4439.6
2.5°	4422.4
5°	4362.2
7.5°	4241.7
10°	4112.7
12.5°	3940.6
15°	3768.5
17.5°	3596.4
20°	3424.3
22.5°	3217.9
25°	2994.1
27.5°	2684.4
30°	2340.3
32.5°	1927.3
35°	1514.3
37.5°	1152.9
40°	843.2
42.5°	610.9
45°	421.6
47.5°	283.9
50°	189.3
52.5°	129.1
55°	103.2
57.5°	77.4
60°	60.2
62.5°	43.0
65°	34.4
67.5°	25.8
70°	17.2
72.5°	17.2
75°	8.6
77.5°	8.6
80°	8.6
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)