

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: P236166

Luminaire Tested: **FLD6BX40D010 EU6B3/58040 F6LBXVM1LIBL85**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236166
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: FLD6BX40D010 EU6B3/58040 F6LBXVM1LIBL85
Description: FAILSAFE 6 INCH RECESSED LED DOWNLIGHT
6" LED Vandal Resistant, Medium (50° Beam), Specular Clear, Bottom lens,
0.187" clear polycarbonate
Light Source: (1) 4000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3291.1 lumens
Efficiency: N/A
Efficacy: 78.7 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

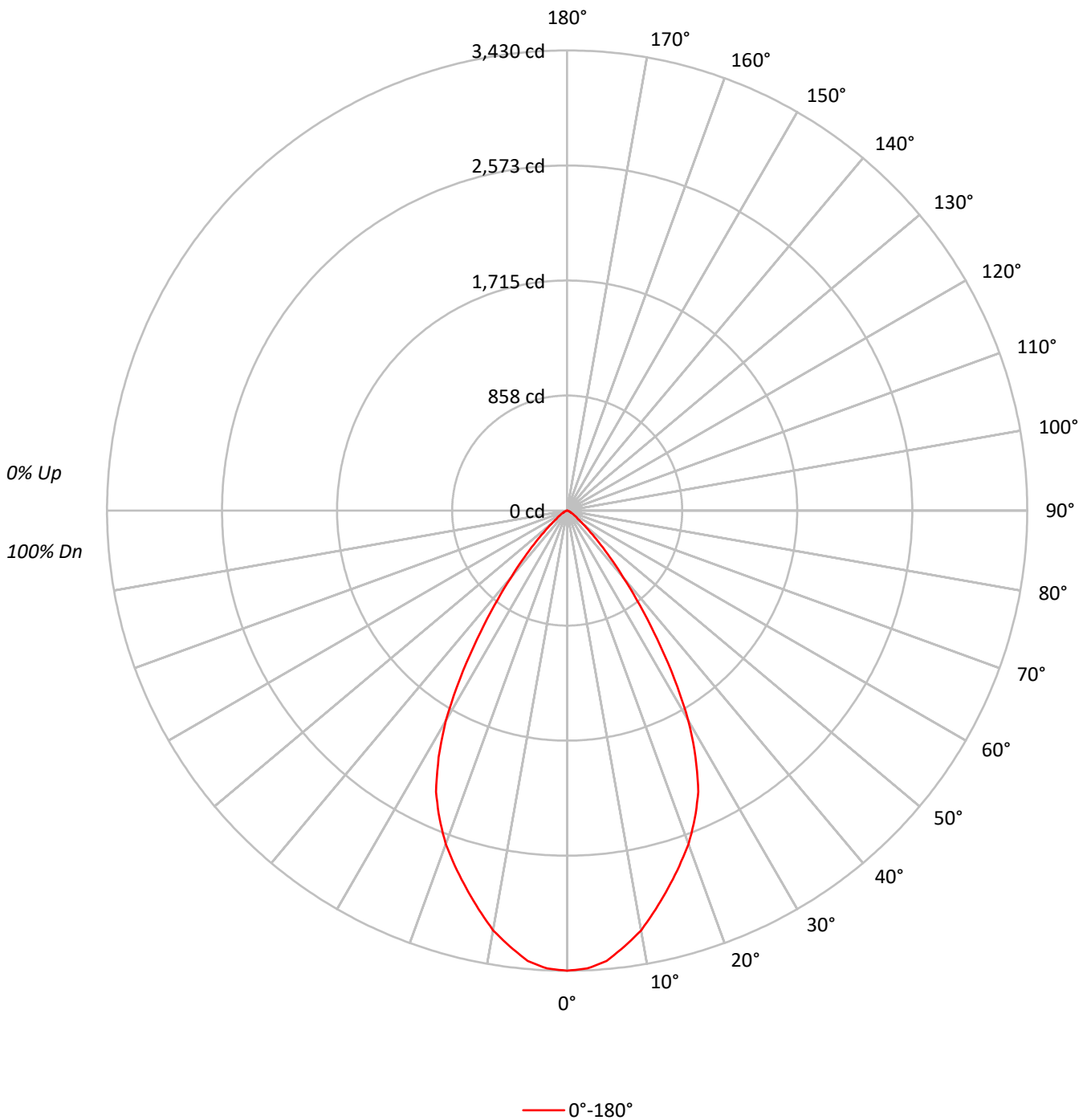
Input Watts (W): 41.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	223749
5°	220688
10°	210467
15°	196628
20°	183657
25°	166501
30°	136195
35°	93168
40°	55477
45°	30050
50°	14839
55°	9077
60°	6067
65°	4106
70°	2537
75°	1664
80°	2480
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.1	9.6
10°-20°	817.5	24.8
20°-30°	1041.7	31.7
30°-40°	736.2	22.4
40°-50°	268.7	8.2
50°-60°	74.5	2.3
60°-70°	27.0	0.8
70°-80°	9.6	0.3
80°-90°	0.9	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°	2174.2	66.1
0°-40°	2910.4	88.4
0°-60°	3253.6	98.9
0°-90°	3291.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3291.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3430	
5°	3370	315
15°	2911	818
25°	2313	1042
35°	1170	736
45°	326	269
55°	80	74
65°	27	27
75°	7	10
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3429.6
2.5°	3416.3
5°	3369.8
7.5°	3276.7
10°	3177.0
12.5°	3044.1
15°	2911.2
17.5°	2778.2
20°	2645.3
22.5°	2485.8
25°	2313.0
27.5°	2073.7
30°	1807.9
32.5°	1488.8
35°	1169.8
37.5°	890.6
40°	651.4
42.5°	471.9
45°	325.7
47.5°	219.3
50°	146.2
52.5°	99.7
55°	79.8
57.5°	59.8
60°	46.5
62.5°	33.2
65°	26.6
67.5°	19.9
70°	13.3
72.5°	13.3
75°	6.6
77.5°	6.6
80°	6.6
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)