

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: P236156

Luminaire Tested: **FLD6BX20D010 EU6B1/28040 F6LBXVM1LIBL84**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236156
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: FLD6BX20D010 EU6B1/28040 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: 1624.6 lumens
Efficiency: N/A
Efficacy: 78.1 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

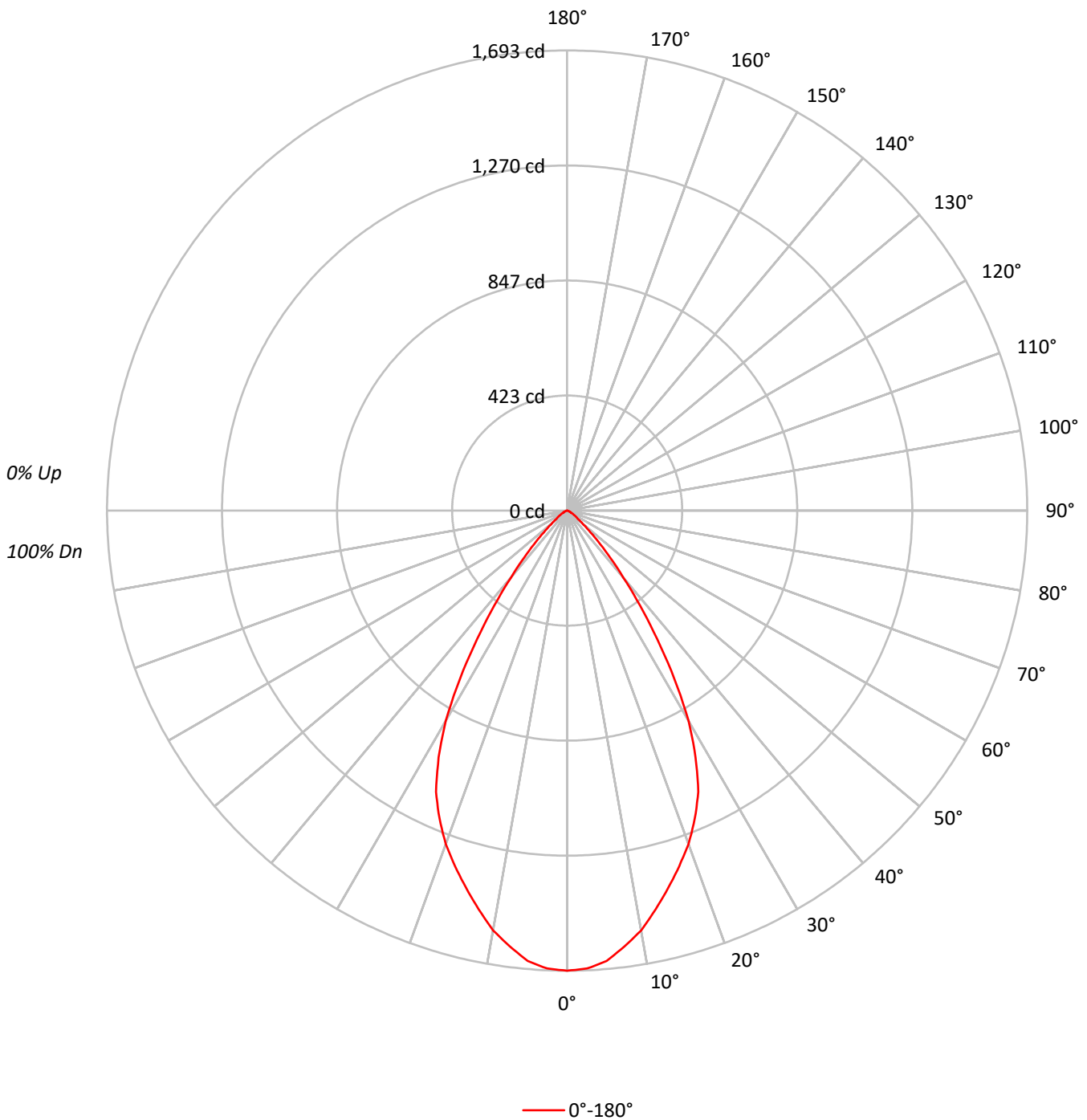
Input Watts (W): 20.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	110446
5°	108929
10°	103889
15°	97058
20°	90652
25°	82185
30°	67228
35°	45987
40°	27381
45°	14836
50°	7328
55°	4481
60°	3001
65°	2022
70°	1259
75°	832
80°	1240
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.5	9.6
10°-20°	403.5	24.8
20°-30°	514.2	31.6
30°-40°	363.4	22.4
40°-50°	132.7	8.2
50°-60°	36.8	2.3
60°-70°	13.3	0.8
70°-80°	4.8	0.3
80°-90°	0.4	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°	1073.2	66.1
0°-40°	1436.6	88.4
0°-60°	1606.0	98.9
0°-90°	1624.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1624.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1693	
5°	1663	156
15°	1437	404
25°	1142	514
35°	577	363
45°	161	133
55°	39	37
65°	13	13
75°	3	5
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1692.9
2.5°	1686.3
5°	1663.3
7.5°	1617.4
10°	1568.2
12.5°	1502.6
15°	1437.0
17.5°	1371.3
20°	1305.7
22.5°	1227.0
25°	1141.7
27.5°	1023.6
30°	892.4
32.5°	734.9
35°	577.4
37.5°	439.6
40°	321.5
42.5°	232.9
45°	160.8
47.5°	108.3
50°	72.2
52.5°	49.2
55°	39.4
57.5°	29.5
60°	23.0
62.5°	16.4
65°	13.1
67.5°	9.8
70°	6.6
72.5°	6.6
75°	3.3
77.5°	3.3
80°	3.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)