

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: P236148

Luminaire Tested: **FLD6BX20D010 EU6B1/28040 F6LBXVM1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236148
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 F6LBXVM1LI
Description: FAILSAFE 6 INCH RECESSED LED DOWNLIGHT
6" LED Vandal Resistant, Medium (50° Beam), Specular Clear, Bottom open
Light Source: (1) 4000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1889.0 lumens
Efficiency: N/A
Efficacy: 90.8 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

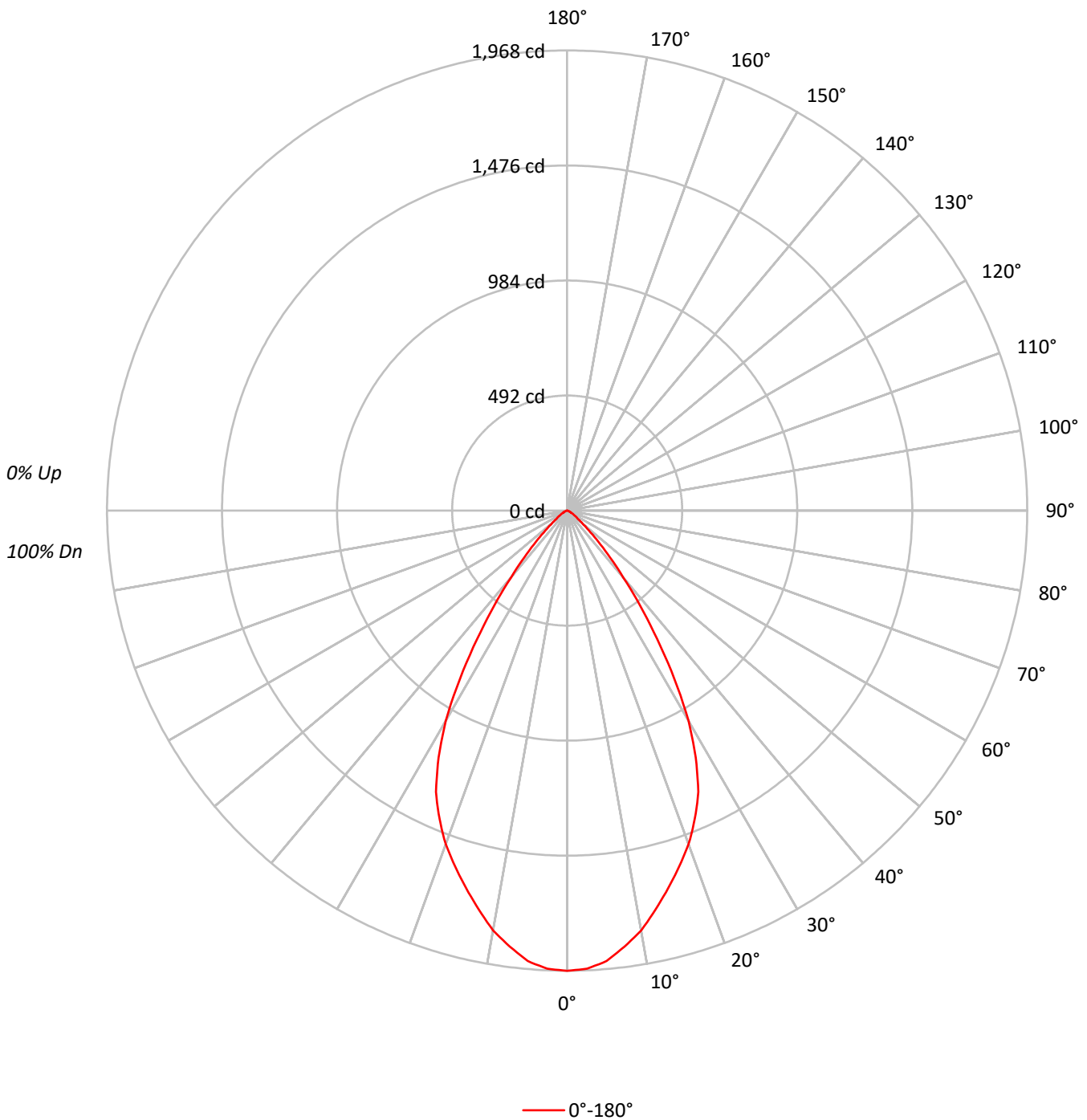
Input Watts (W): 20.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	128420
5°	126664
10°	120802
15°	112856
20°	105412
25°	95567
30°	78166
35°	53473
40°	31843
45°	17244
50°	8516
55°	5209
60°	3484
65°	2362
70°	1450
75°	958
80°	1428
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.8	9.6
10°-20°	469.2	24.8
20°-30°	597.9	31.6
30°-40°	422.5	22.4
40°-50°	154.3	8.2
50°-60°	42.7	2.3
60°-70°	15.5	0.8
70°-80°	5.5	0.3
80°-90°	0.5	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°	1247.9	66.1
0°-40°	1670.4	88.4
0°-60°	1867.5	98.9
0°-90°	1889.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1889.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1968	
5°	1934	181
15°	1671	469
25°	1328	598
35°	671	423
45°	187	154
55°	46	43
65°	15	16
75°	4	6
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1968.4
2.5°	1960.8
5°	1934.1
7.5°	1880.7
10°	1823.5
12.5°	1747.2
15°	1670.9
17.5°	1594.6
20°	1518.3
22.5°	1426.7
25°	1327.6
27.5°	1190.2
30°	1037.6
32.5°	854.5
35°	671.4
37.5°	511.2
40°	373.9
42.5°	270.9
45°	186.9
47.5°	125.9
50°	83.9
52.5°	57.2
55°	45.8
57.5°	34.3
60°	26.7
62.5°	19.1
65°	15.3
67.5°	11.4
70°	7.6
72.5°	7.6
75°	3.8
77.5°	3.8
80°	3.8
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)