

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: P236172

Luminaire Tested: **FLD6BX20D010 EU6B1/28040 F6LBXVM1LIBL86**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P236172  
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 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: 1586.7 lumens  
Efficiency: N/A  
Efficacy: 76.3 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

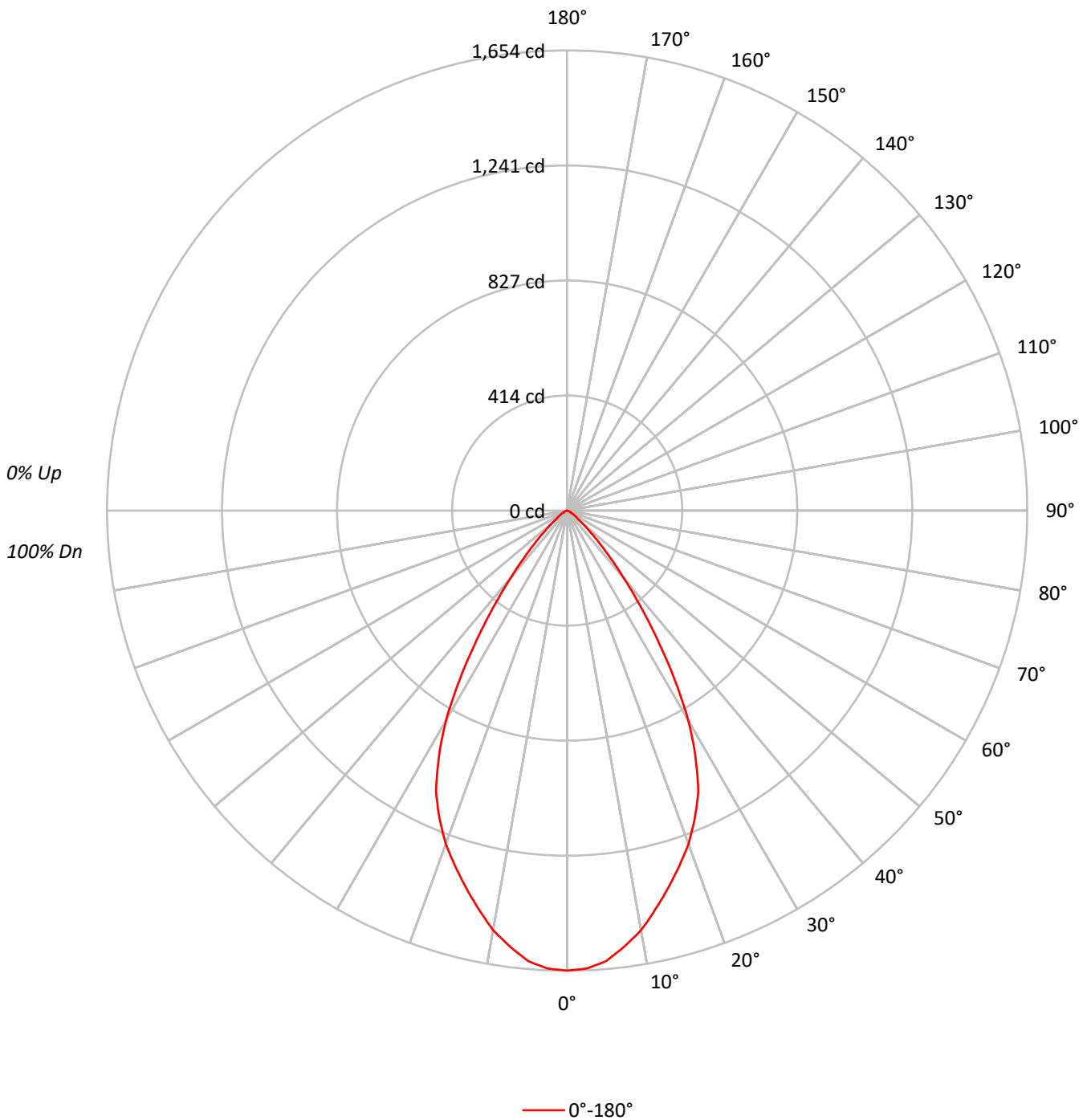
Input Watts (W): 20.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	107875
5°	106395
10°	101471
15°	94795
20°	88548
25°	80271
30°	65661
35°	44919
40°	26742
45°	14485
50°	7155
55°	4379
60°	2923
65°	1976
70°	1221
75°	807
80°	1202
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.9	9.6
10°-20°	394.2	24.8
20°-30°	502.2	31.7
30°-40°	354.9	22.4
40°-50°	129.6	8.2
50°-60°	35.9	2.3
60°-70°	13.0	0.8
70°-80°	4.6	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°	1048.3	66.1
0°-40°	1403.2	88.4
0°-60°	1568.6	98.9
0°-90°	1586.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1586.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1654	
5°	1625	152
15°	1404	394
25°	1115	502
35°	564	355
45°	157	130
55°	38	36
65°	13	13
75°	3	5
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1653.5
2.5°	1647.1
5°	1624.6
7.5°	1579.8
10°	1531.7
12.5°	1467.6
15°	1403.5
17.5°	1339.5
20°	1275.4
22.5°	1198.5
25°	1115.1
27.5°	999.8
30°	871.6
32.5°	717.8
35°	564.0
37.5°	429.4
40°	314.0
42.5°	227.5
45°	157.0
47.5°	105.7
50°	70.5
52.5°	48.1
55°	38.5
57.5°	28.8
60°	22.4
62.5°	16.0
65°	12.8
67.5°	9.6
70°	6.4
72.5°	6.4
75°	3.2
77.5°	3.2
80°	3.2
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)