

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: P236162

Luminaire Tested: **FLD6BX10D010 EU6B1/28040 F6LBXVM1LIBL85**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236162
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: FLD6BX10D010 EU6B1/28040 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: 837.3 lumens
Efficiency: N/A
Efficacy: 84.6 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

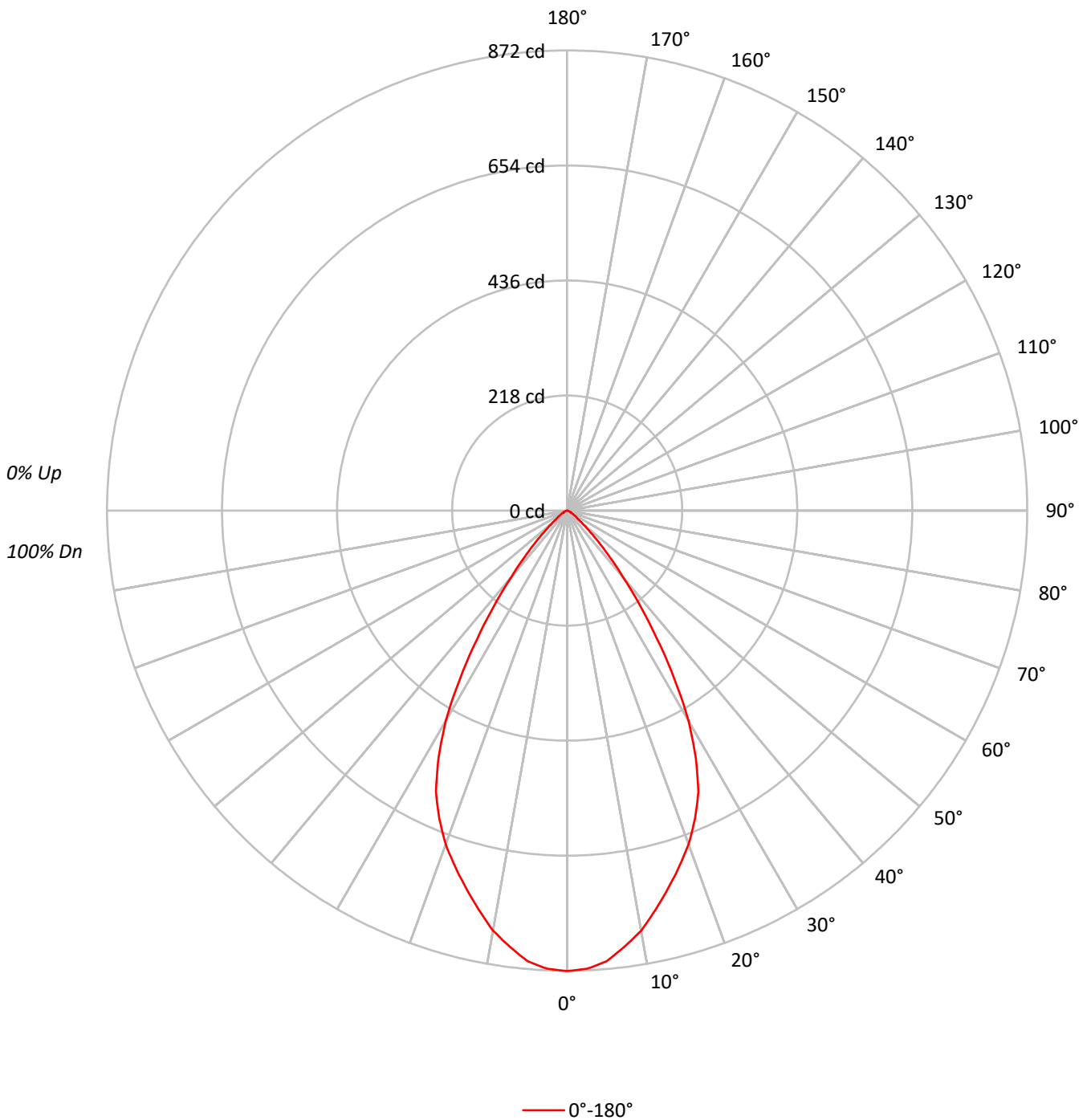
Input Watts (W): 9.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	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°	56922
5°	56138
10°	53541
15°	50022
20°	46718
25°	42356
30°	34646
35°	23702
40°	14112
45°	7639
50°	3776
55°	2309
60°	1540
65°	1050
70°	649
75°	429
80°	639
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.1	9.6
10°-20°	208.0	24.8
20°-30°	265.0	31.6
30°-40°	187.3	22.4
40°-50°	68.3	8.2
50°-60°	19.0	2.3
60°-70°	6.9	0.8
70°-80°	2.5	0.3
80°-90°	0.2	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°	553.1	66.1
0°-40°	740.4	88.4
0°-60°	827.7	98.9
0°-90°	837.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	837.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	872	
5°	857	80
15°	741	208
25°	588	265
35°	298	187
45°	83	68
55°	20	19
65°	7	7
75°	2	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	872.5
2.5°	869.1
5°	857.2
7.5°	833.6
10°	808.2
12.5°	774.4
15°	740.6
17.5°	706.8
20°	672.9
22.5°	632.4
25°	588.4
27.5°	527.5
30°	459.9
32.5°	378.7
35°	297.6
37.5°	226.6
40°	165.7
42.5°	120.0
45°	82.8
47.5°	55.8
50°	37.2
52.5°	25.4
55°	20.3
57.5°	15.2
60°	11.8
62.5°	8.5
65°	6.8
67.5°	5.1
70°	3.4
72.5°	3.4
75°	1.7
77.5°	1.7
80°	1.7
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)