

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: P236155

Luminaire Tested: **FLD6BX15D010 EU6B1/28040 F6LBXVM1LIBL84**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236155
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: FLD6BX15D010 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: 1168.8 lumens
Efficiency: N/A
Efficacy: 81.7 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

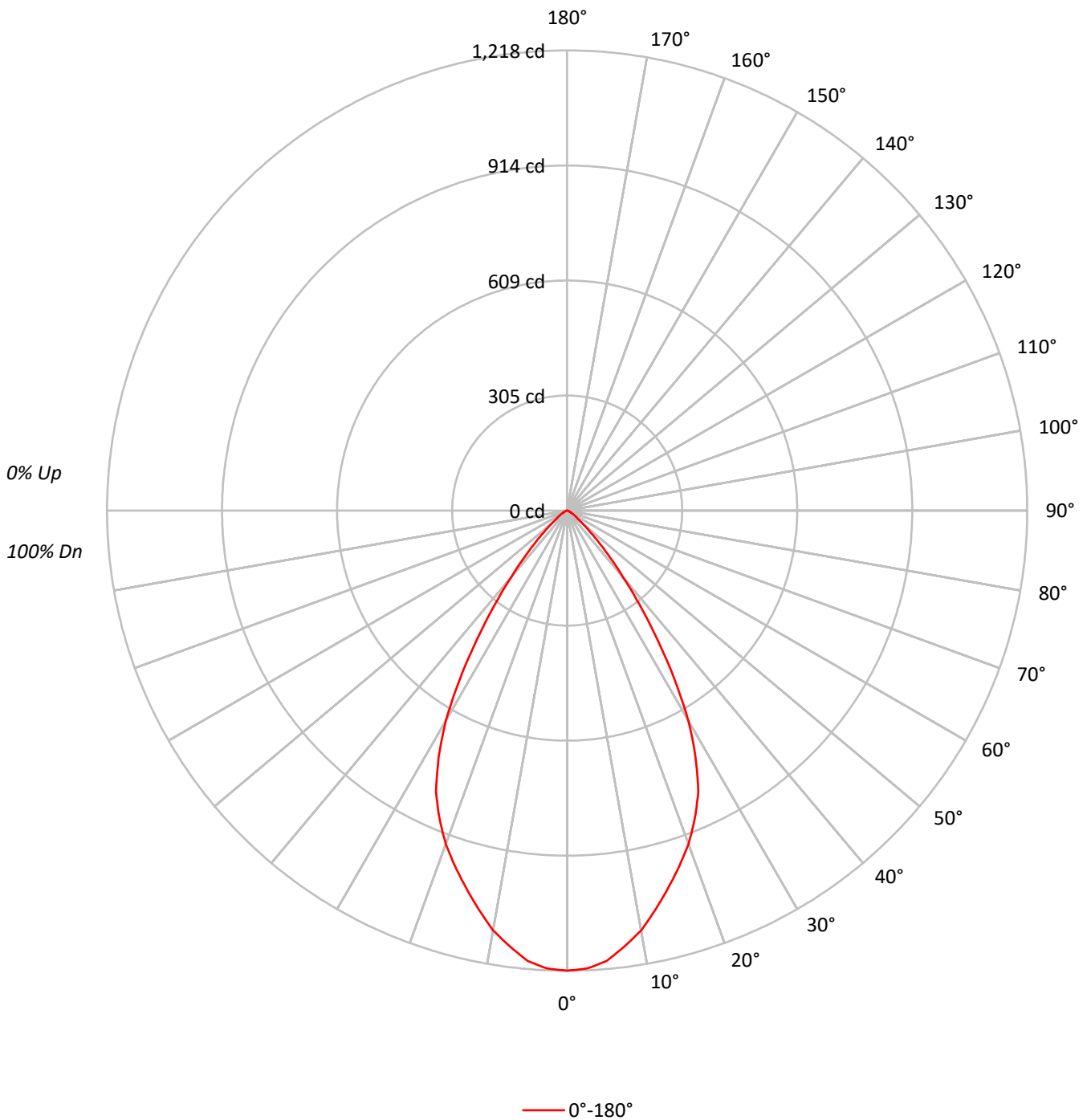
Input Watts (W): 14.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	79457
5°	78365
10°	74740
15°	69825
20°	65220
25°	59129
30°	48364
35°	33084
40°	19699
45°	10675
50°	5268
55°	3219
60°	2153
65°	1451
70°	897
75°	605
80°	902
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.9	9.6
10°-20°	290.3	24.8
20°-30°	369.9	31.6
30°-40°	261.4	22.4
40°-50°	95.4	8.2
50°-60°	26.4	2.3
60°-70°	9.6	0.8
70°-80°	3.4	0.3
80°-90°	0.3	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°	772.1	66.1
0°-40°	1033.5	88.4
0°-60°	1155.4	98.9
0°-90°	1168.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1168.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1218	
5°	1197	112
15°	1034	290
25°	821	370
35°	415	261
45°	116	95
55°	28	26
65°	9	10
75°	2	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1217.9
2.5°	1213.2
5°	1196.6
7.5°	1163.6
10°	1128.2
12.5°	1081.0
15°	1033.8
17.5°	986.6
20°	939.4
22.5°	882.7
25°	821.4
27.5°	736.4
30°	642.0
32.5°	528.7
35°	415.4
37.5°	316.3
40°	231.3
42.5°	167.6
45°	115.7
47.5°	77.9
50°	51.9
52.5°	35.4
55°	28.3
57.5°	21.2
60°	16.5
62.5°	11.8
65°	9.4
67.5°	7.1
70°	4.7
72.5°	4.7
75°	2.4
77.5°	2.4
80°	2.4
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)