

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: P236160

Luminaire Tested: **FLD6BX60D010 EU6B6/78040 F6LBXVM1LIBL84**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236160
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: FLD6BX60D010 EU6B6/78040 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: 4760.1 lumens
Efficiency: N/A
Efficacy: 76.2 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

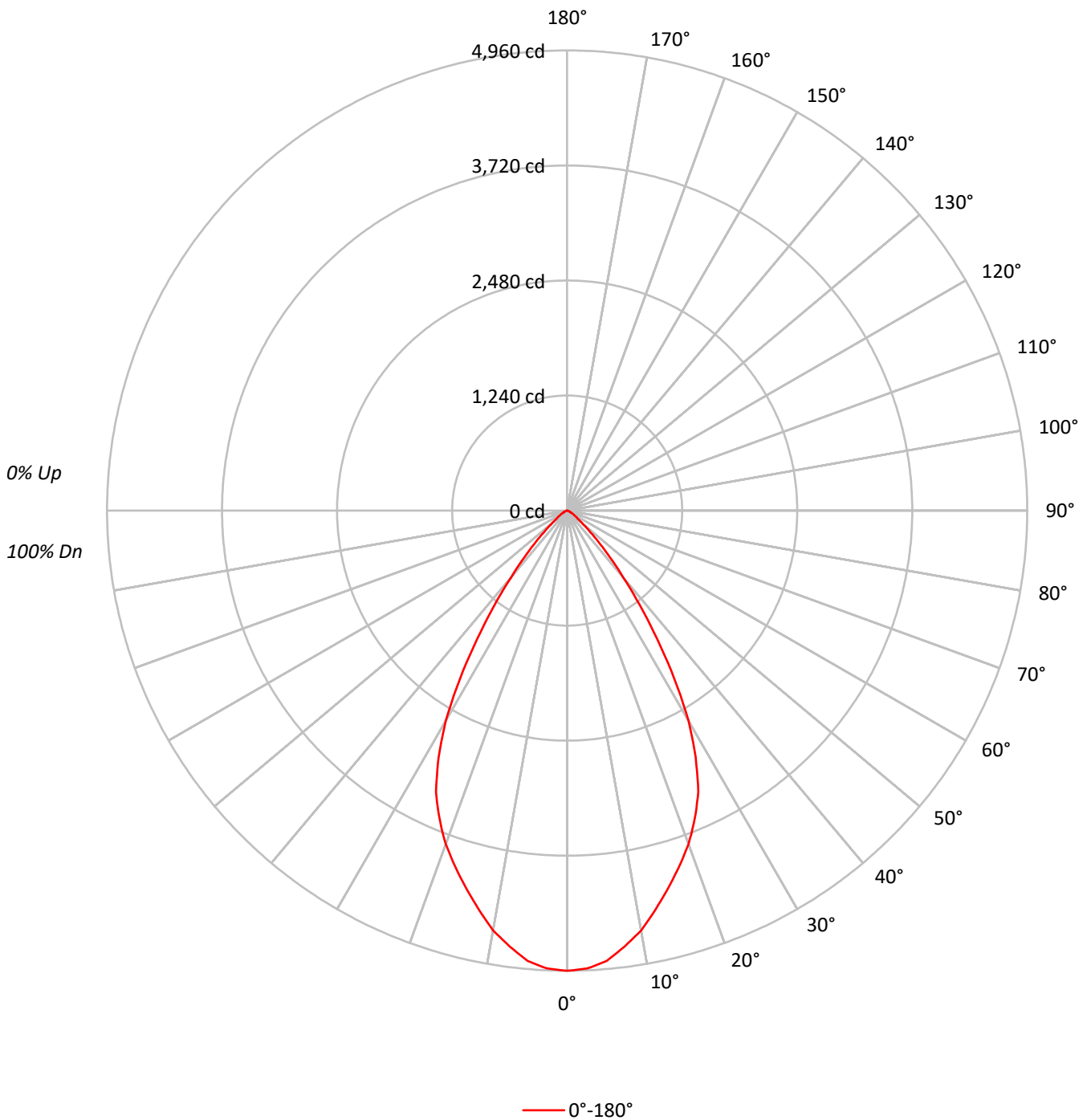
Input Watts (W): 62.48
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	323613
5°	319184
10°	304405
15°	284386
20°	265623
25°	240812
30°	196974
35°	134750
40°	80235
45°	43456
50°	21466
55°	13126
60°	8781
65°	5943
70°	3662
75°	2420
80°	3607
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	455.7	9.6
10°-20°	1182.4	24.8
20°-30°	1506.5	31.6
30°-40°	1064.7	22.4
40°-50°	388.7	8.2
50°-60°	107.8	2.3
60°-70°	39.1	0.8
70°-80°	13.9	0.3
80°-90°	1.3	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°	3144.6	66.1
0°-40°	4209.3	88.4
0°-60°	4705.8	98.9
0°-90°	4760.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4760.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4960	
5°	4874	456
15°	4210	1182
25°	3345	1507
35°	1692	1065
45°	471	389
55°	115	108
65°	38	39
75°	10	14
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4960.3
2.5°	4941.0
5°	4873.8
7.5°	4739.2
10°	4595.0
12.5°	4402.7
15°	4210.5
17.5°	4018.2
20°	3825.9
22.5°	3595.2
25°	3345.3
27.5°	2999.2
30°	2614.7
32.5°	2153.3
35°	1691.9
37.5°	1288.1
40°	942.1
42.5°	682.5
45°	471.0
47.5°	317.2
50°	211.5
52.5°	144.2
55°	115.4
57.5°	86.5
60°	67.3
62.5°	48.1
65°	38.5
67.5°	28.8
70°	19.2
72.5°	19.2
75°	9.6
77.5°	9.6
80°	9.6
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)