

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: P236164

Luminaire Tested: **FLD6BX20D010 EU6B1/28040 F6LBXVM1LIBL85**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236164
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 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: 1605.6 lumens
Efficiency: N/A
Efficacy: 77.2 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

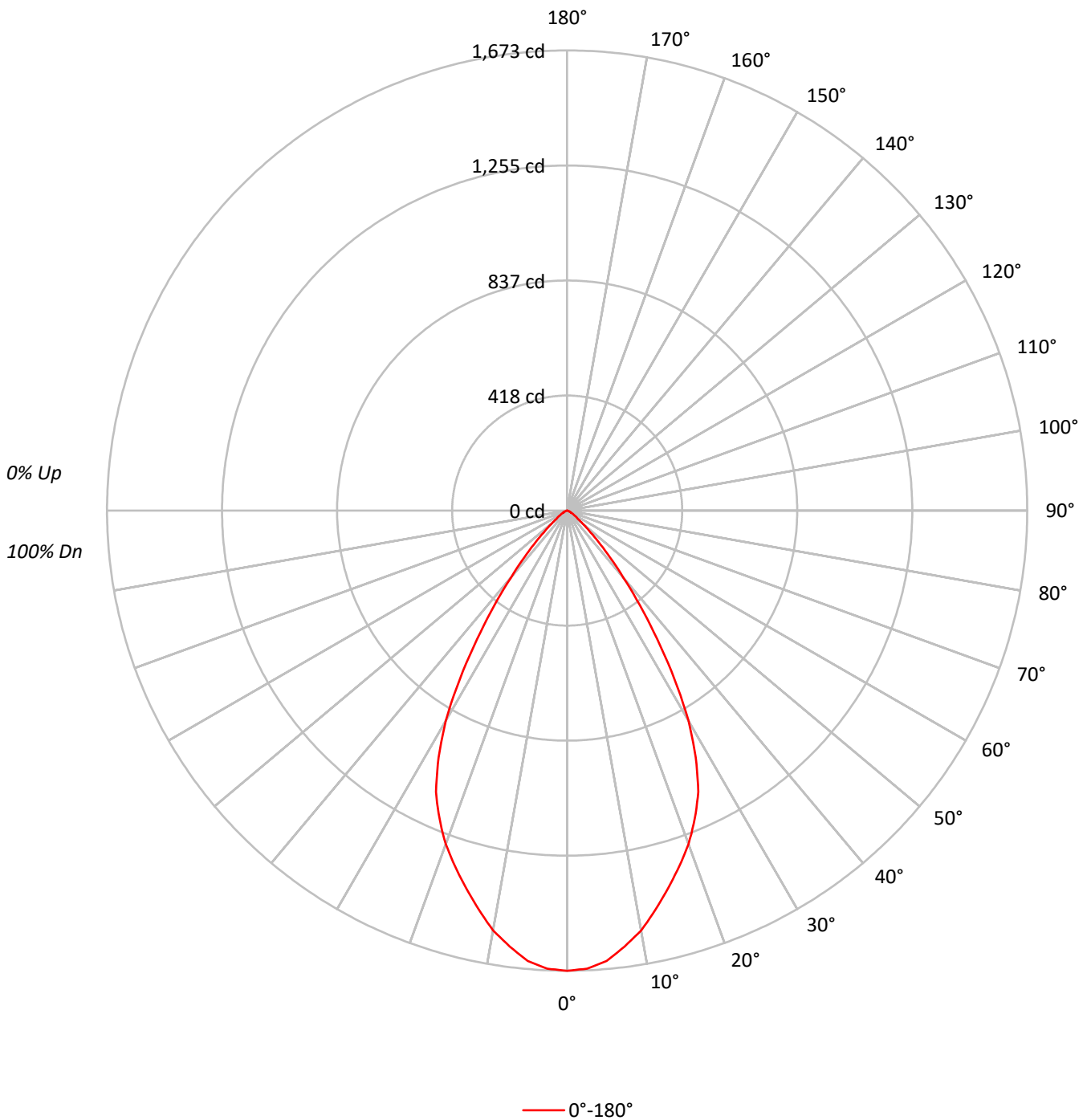
Input Watts (W): 20.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	109161
5°	107665
10°	102683
15°	95923
20°	89596
25°	81228
30°	66444
35°	45453
40°	27066
45°	14661
50°	7237
55°	4425
60°	2962
65°	2007
70°	1240
75°	807
80°	1202
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.7	9.6
10°-20°	398.8	24.8
20°-30°	508.2	31.7
30°-40°	359.1	22.4
40°-50°	131.1	8.2
50°-60°	36.3	2.3
60°-70°	13.2	0.8
70°-80°	4.7	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°	1060.7	66.1
0°-40°	1419.9	88.4
0°-60°	1587.3	98.9
0°-90°	1605.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1605.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1673	
5°	1644	154
15°	1420	399
25°	1128	508
35°	571	359
45°	159	131
55°	39	36
65°	13	13
75°	3	5
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1673.2
2.5°	1666.7
5°	1644.0
7.5°	1598.6
10°	1550.0
12.5°	1485.1
15°	1420.2
17.5°	1355.4
20°	1290.5
22.5°	1212.7
25°	1128.4
27.5°	1011.7
30°	882.0
32.5°	726.3
35°	570.7
37.5°	434.5
40°	317.8
42.5°	230.2
45°	158.9
47.5°	107.0
50°	71.3
52.5°	48.6
55°	38.9
57.5°	29.2
60°	22.7
62.5°	16.2
65°	13.0
67.5°	9.7
70°	6.5
72.5°	6.5
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)