

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: P575788

Luminaire Tested: **FLD6C-15-D010 FEU6C-X-90-40 F6X-M-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P575788
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P203254)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD6C-15-D010 FEU6C-X-90-40 F6X-M-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 6LBMH TRIM

Light Source: -
Ballast/Driver: -

Summary

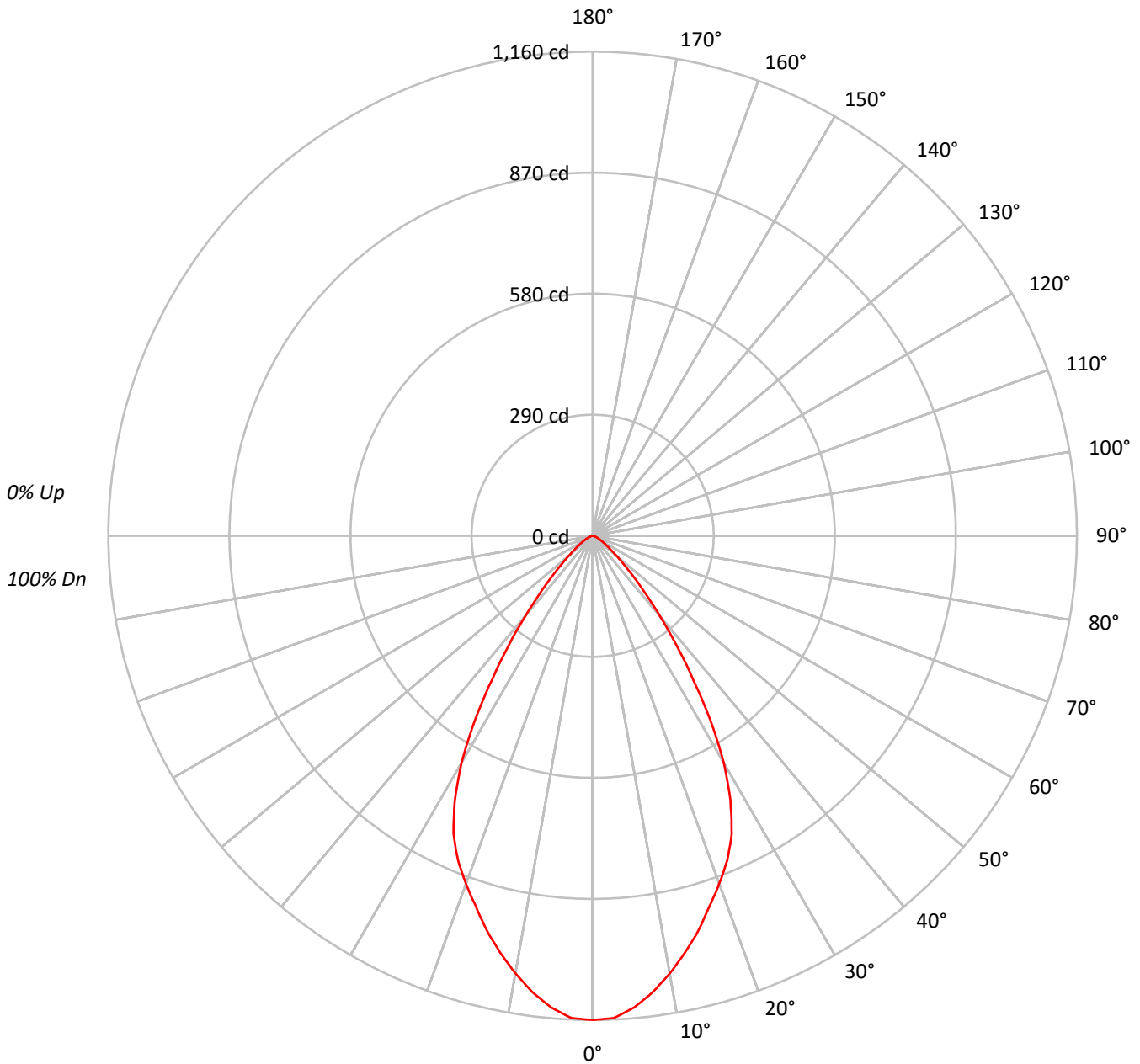
Lumens per Lamp: N/A
Luminaire Lumens: 1172.1 lumens
Efficiency: N/A
Efficacy: 74.2 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.93
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 15.8
Input Voltage (V): NR
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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92			92
2	107	102	97	93	105	100	96	92	97	93	90	94	91	88	91	89	87	85			85
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78			78
4	95	87	81	76	93	86	80	76	84	79	75	82	78	74	80	76	73	72			72
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66			66
6	85	75	69	64	83	75	69	64	73	68	64	72	67	63	70	66	63	61			61
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57			57
8	76	66	60	55	75	65	59	55	64	59	55	63	58	55	62	58	54	53			53
9	72	62	56	51	71	61	55	51	60	55	51	60	55	51	59	54	51	49			49
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	55	51	48	46			46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	63586
5°	62448
10°	59256
15°	55568
20°	51746
25°	47682
30°	39728
35°	28001
40°	17848
45°	10645
50°	6286
55°	3995
60°	2752
65°	1959
70°	1346
75°	1059
80°	537
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.1	9.0
10°-20°	274.4	23.4
20°-30°	355.5	30.3
30°-40°	263.9	22.5
40°-50°	111.4	9.5
50°-60°	39.6	3.4
60°-70°	15.3	1.3
70°-80°	5.3	0.5
80°-90°	0.7	0.1
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°	735.9	62.8
0°-40°	999.8	85.3
0°-60°	1150.8	98.2
0°-90°	1172.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1172.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1160	
5°	1135	106
15°	979	274
25°	788	355
35°	418	264
45°	137	111
55°	42	40
65°	15	15
75°	5	5
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1159.9
2.5°	1156.5
5°	1134.8
7.5°	1102.9
10°	1064.5
12.5°	1022.6
15°	979.1
17.5°	930.6
20°	887.0
22.5°	841.9
25°	788.3
27.5°	714.6
30°	627.6
32.5°	525.5
35°	418.4
37.5°	328.1
40°	249.4
42.5°	185.8
45°	137.3
47.5°	100.4
50°	73.7
52.5°	55.2
55°	41.8
57.5°	31.8
60°	25.1
62.5°	18.4
65°	15.1
67.5°	11.7
70°	8.4
72.5°	6.7
75°	5.0
77.5°	3.4
80°	1.7
82.5°	1.7
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)