

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: P575728

Luminaire Tested: **FLD6C-15-D010 FEU6C-X-90-35 F6X-M-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P575728
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-90-35 F6X-M-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 3500K, 90 CRI LEDS, 6LBMH TRIM

Light Source: -
Ballast/Driver: -

Summary

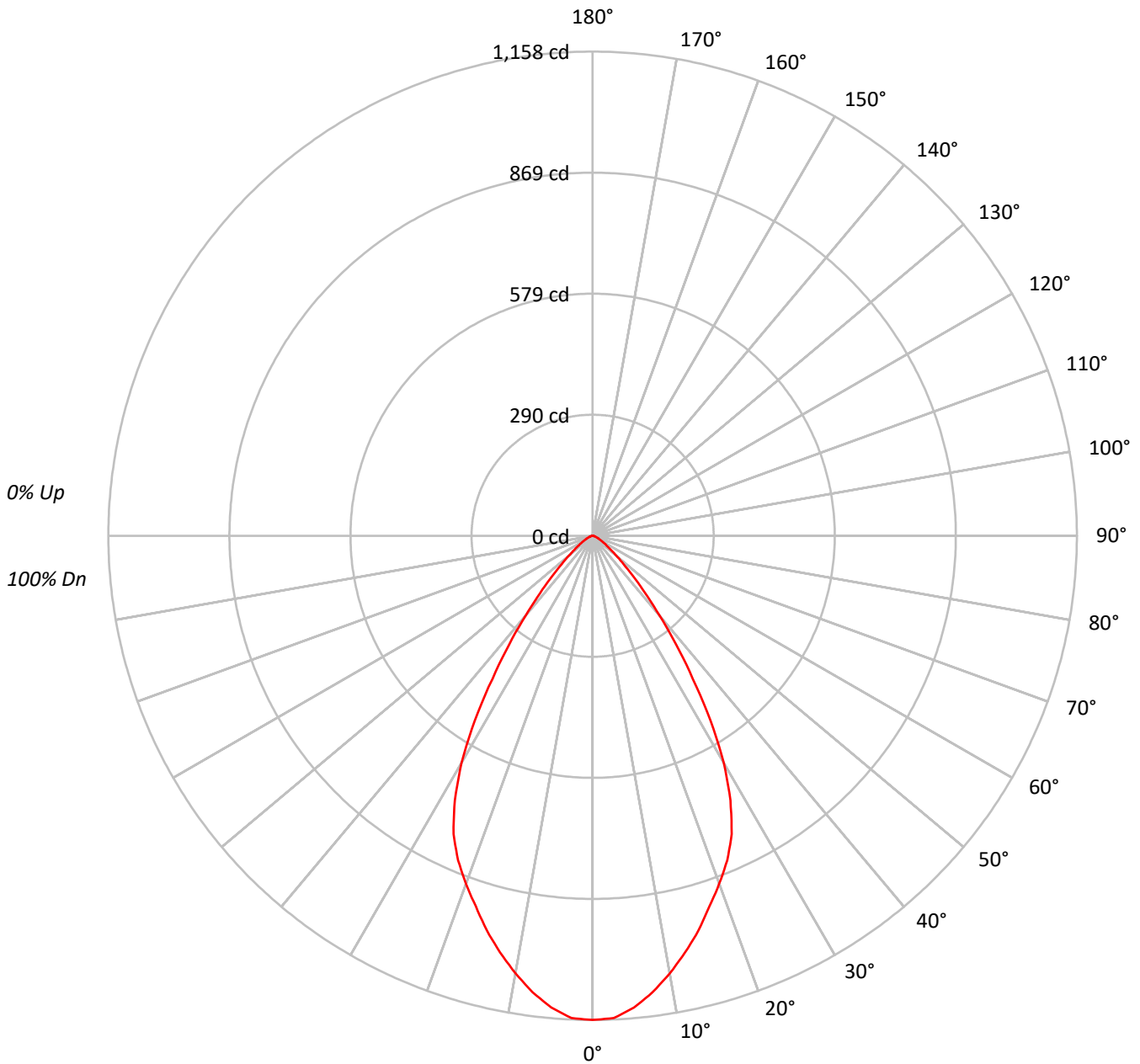
Lumens per Lamp: N/A
Luminaire Lumens: 1169.9 lumens
Efficiency: N/A
Efficacy: 74.0 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.93
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	63476
5°	62338
10°	59156
15°	55471
20°	51659
25°	47598
30°	39664
35°	27954
40°	17812
45°	10621
50°	6268
55°	3986
60°	2752
65°	1946
70°	1346
75°	1059
80°	505
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.9	9.0
10°-20°	273.9	23.4
20°-30°	354.9	30.3
30°-40°	263.5	22.5
40°-50°	111.2	9.5
50°-60°	39.5	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°	734.6	62.8
0°-40°	998.1	85.3
0°-60°	1148.7	98.2
0°-90°	1169.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1169.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1158	
5°	1133	106
15°	977	274
25°	787	355
35°	418	263
45°	137	111
55°	42	39
65°	15	15
75°	5	5
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1157.9
2.5°	1154.5
5°	1132.8
7.5°	1101.1
10°	1062.7
12.5°	1020.9
15°	977.4
17.5°	929.0
20°	885.5
22.5°	840.4
25°	786.9
27.5°	713.4
30°	626.6
32.5°	524.6
35°	417.7
37.5°	327.5
40°	248.9
42.5°	185.4
45°	137.0
47.5°	100.2
50°	73.5
52.5°	55.1
55°	41.7
57.5°	31.7
60°	25.1
62.5°	18.4
65°	15.0
67.5°	11.7
70°	8.4
72.5°	6.7
75°	5.0
77.5°	3.4
80°	1.6
82.5°	1.6
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)