

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: P578488

Luminaire Tested: **FLD6C-60-D010 FEU6C-X-90-40 F6X-M-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P578488
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-60-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

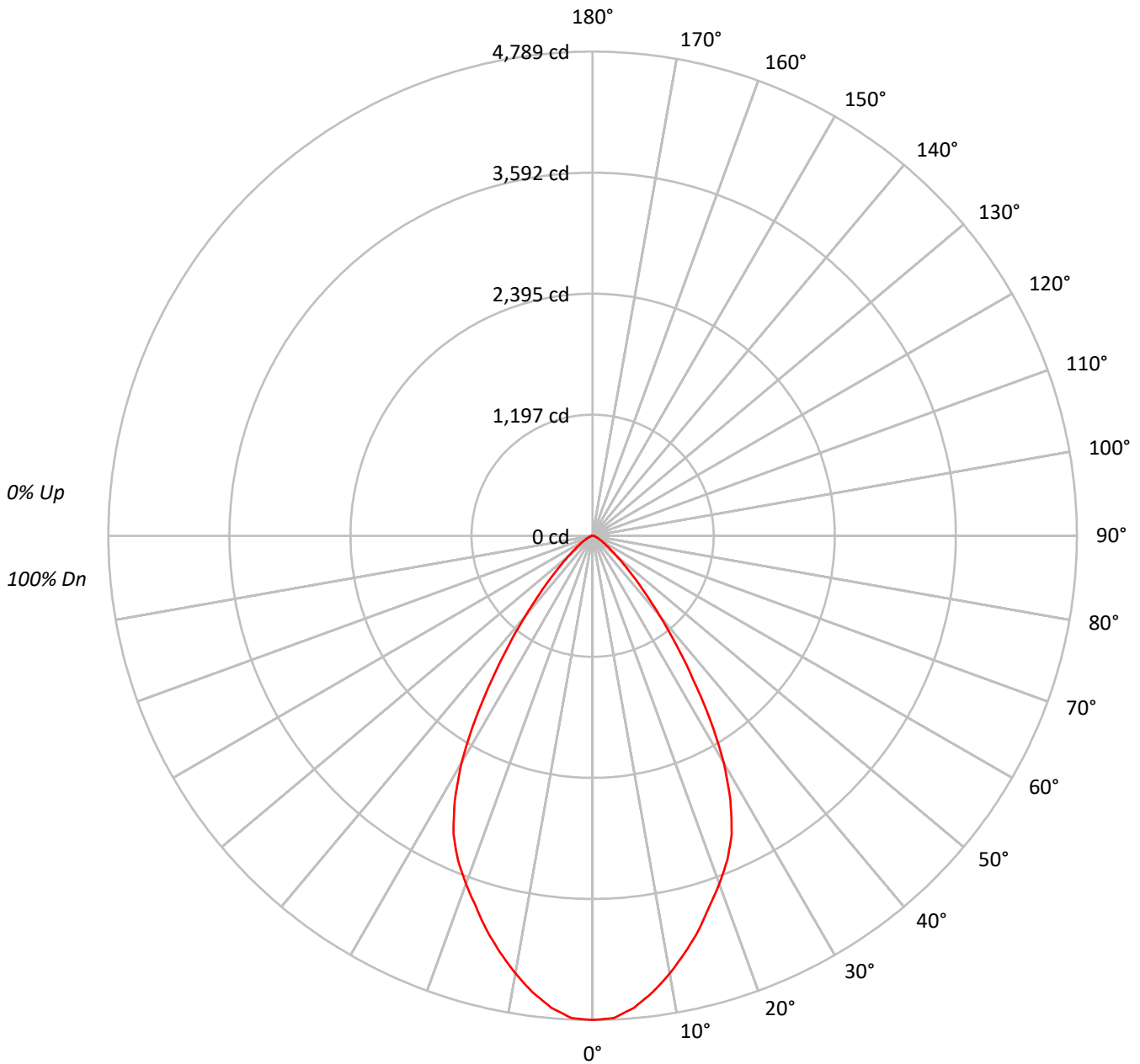
Lumens per Lamp: N/A
Luminaire Lumens: 4839.0 lumens
Efficiency: N/A
Efficacy: 67.2 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.93
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 72
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	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°	262528
5°	257830
10°	244657
15°	229422
20°	213664
25°	196868
30°	164038
35°	115616
40°	73681
45°	43943
50°	25935
55°	16506
60°	11359
65°	8068
70°	5546
75°	4384
80°	2147
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.9	9.0
10°-20°	1132.7	23.4
20°-30°	1467.7	30.3
30°-40°	1089.7	22.5
40°-50°	460.0	9.5
50°-60°	163.3	3.4
60°-70°	63.0	1.3
70°-80°	21.8	0.5
80°-90°	2.8	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°	3038.3	62.8
0°-40°	4128.0	85.3
0°-60°	4751.4	98.2
0°-90°	4839.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4839.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4789	
5°	4685	438
15°	4042	1133
25°	3255	1468
35°	1728	1090
45°	567	460
55°	173	163
65°	62	63
75°	21	22
85°	0	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4788.9
2.5°	4775.0
5°	4685.3
7.5°	4553.8
10°	4395.1
12.5°	4222.2
15°	4042.4
17.5°	3842.2
20°	3662.5
22.5°	3475.9
25°	3254.7
27.5°	2950.6
30°	2591.4
32.5°	2169.7
35°	1727.6
37.5°	1354.5
40°	1029.6
42.5°	767.0
45°	566.8
47.5°	414.6
50°	304.1
52.5°	228.0
55°	172.7
57.5°	131.2
60°	103.6
62.5°	76.1
65°	62.2
67.5°	48.3
70°	34.6
72.5°	27.5
75°	20.7
77.5°	13.9
80°	6.8
82.5°	6.8
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)