

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: P577588

Luminaire Tested: **FLD6C-45-D010 FEU6C-X-90-40 F6X-M-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P577588
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-45-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

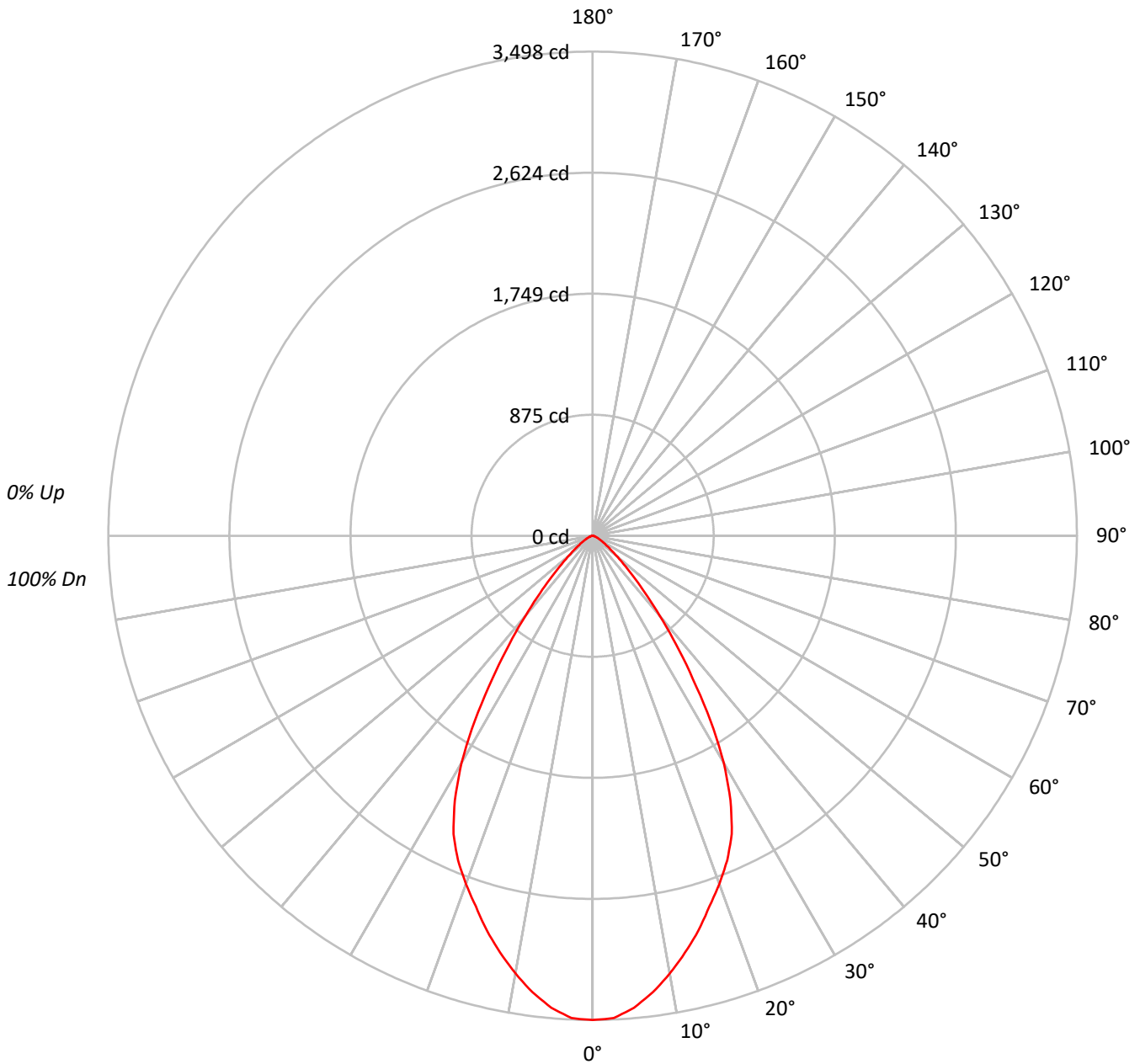
Lumens per Lamp: N/A
Luminaire Lumens: 3535.0 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.93
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
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				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	84	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°	191783
5°	188350
10°	178726
15°	167600
20°	156084
25°	143815
30°	119835
35°	84457
40°	53829
45°	32096
50°	18950
55°	12052
60°	8300
65°	5889
70°	4055
75°	3198
80°	1578
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.9	9.0
10°-20°	827.5	23.4
20°-30°	1072.2	30.3
30°-40°	796.0	22.5
40°-50°	336.1	9.5
50°-60°	119.3	3.4
60°-70°	46.1	1.3
70°-80°	15.9	0.5
80°-90°	2.0	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°	2219.6	62.8
0°-40°	3015.6	85.3
0°-60°	3471.0	98.2
0°-90°	3535.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3535.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3498	
5°	3423	320
15°	2953	827
25°	2378	1072
35°	1262	796
45°	414	336
55°	126	119
65°	45	46
75°	15	16
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3498.4
2.5°	3488.3
5°	3422.7
7.5°	3326.7
10°	3210.7
12.5°	3084.4
15°	2953.1
17.5°	2806.8
20°	2675.5
22.5°	2539.2
25°	2377.6
27.5°	2155.5
30°	1893.1
32.5°	1585.0
35°	1262.0
37.5°	989.5
40°	752.2
42.5°	560.3
45°	414.0
47.5°	302.9
50°	222.2
52.5°	166.6
55°	126.1
57.5°	95.8
60°	75.7
62.5°	55.6
65°	45.4
67.5°	35.3
70°	25.3
72.5°	20.1
75°	15.1
77.5°	10.2
80°	5.0
82.5°	5.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180°







(END OF REPORT)