

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: P579568

Luminaire Tested: **FLD6C-80-D010 FEU6C-X-90-30 F6X-M-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P579568
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-80-D010 FEU6C-X-90-30 F6X-M-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 3000K, 90 CRI LEDS, 6LBMH TRIM

Light Source: -
Ballast/Driver: -

Summary

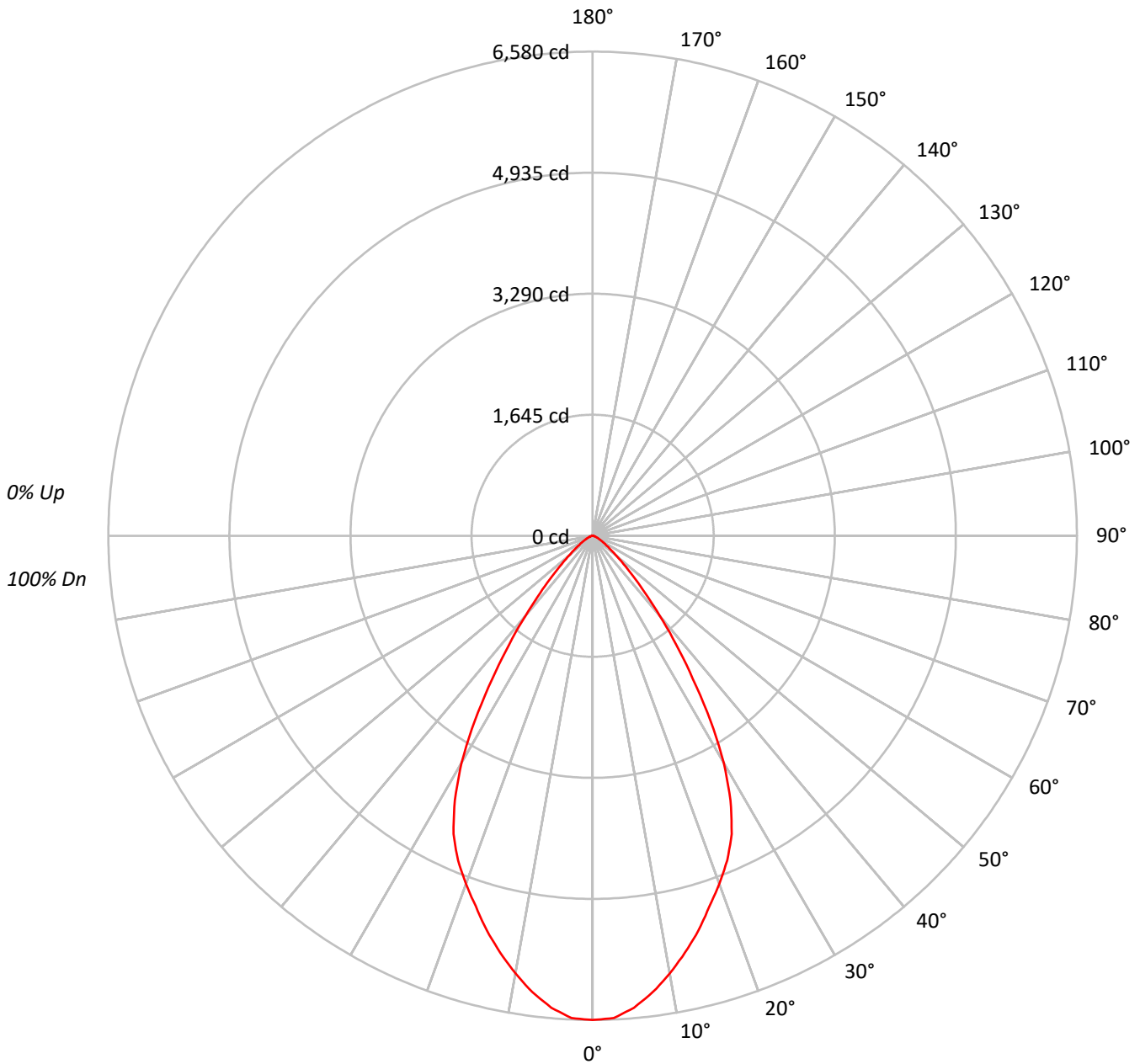
Lumens per Lamp: N/A
Luminaire Lumens: 6649.1 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.93
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 89.5
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	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°	360728
5°	354269
10°	336166
15°	315240
20°	293582
25°	270506
30°	225395
35°	158862
40°	101247
45°	60378
50°	35641
55°	22671
60°	15613
65°	11078
70°	7629
75°	6037
80°	2968
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	601.6	9.0
10°-20°	1556.4	23.4
20°-30°	2016.7	30.3
30°-40°	1497.3	22.5
40°-50°	632.1	9.5
50°-60°	224.4	3.4
60°-70°	86.6	1.3
70°-80°	30.0	0.5
80°-90°	3.8	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°	4174.8	62.8
0°-40°	5672.1	85.3
0°-60°	6528.6	98.2
0°-90°	6649.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6649.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6580	
5°	6438	602
15°	5554	1556
25°	4472	2017
35°	2374	1497
45°	779	632
55°	237	224
65°	85	87
75°	28	30
85°	0	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6580.2
2.5°	6561.1
5°	6437.8
7.5°	6257.2
10°	6039.0
12.5°	5801.4
15°	5554.5
17.5°	5279.4
20°	5032.4
22.5°	4776.1
25°	4472.1
27.5°	4054.3
30°	3560.7
32.5°	2981.3
35°	2373.8
37.5°	1861.1
40°	1414.8
42.5°	1053.9
45°	778.8
47.5°	569.7
50°	417.9
52.5°	313.3
55°	237.2
57.5°	180.3
60°	142.4
62.5°	104.6
65°	85.4
67.5°	66.3
70°	47.6
72.5°	37.9
75°	28.5
77.5°	19.1
80°	9.4
82.5°	9.4
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)