

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: P579068

Luminaire Tested: **FLD6C-70-D010 FEU6C-X-90-35 F6X-W-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P579068
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P202739)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD6C-70-D010 FEU6C-X-90-35 F6X-W-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 3500K, 90 CRI LEDS, 6LBWH TRIM

Light Source: -
Ballast/Driver: -

Summary

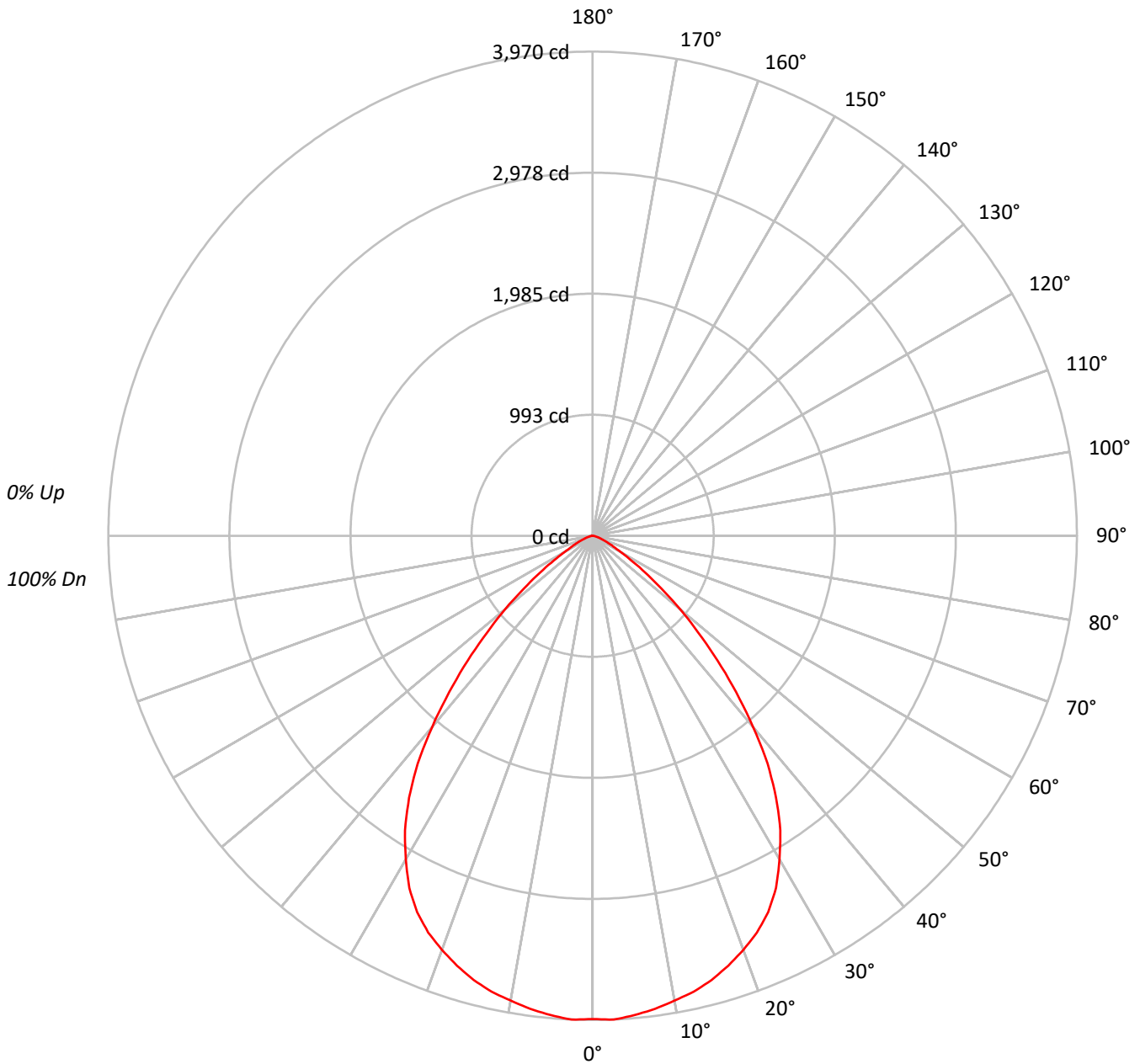
Lumens per Lamp: N/A
Luminaire Lumens: 6423.9 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 78
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	112	109	106	103	110	107	104	101	103	100	98	99	97	95	95	94	93	91			91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81			81
3	98	90	84	79	96	89	83	78	86	81	77	83	79	76	81	78	75	73			73
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65			65
5	86	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59			59
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53			53
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49			49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44			44
9	66	55	48	43	65	54	47	43	53	47	43	52	47	42	51	46	42	41			41
10	62	51	44	40	61	50	44	39	50	43	39	49	43	39	48	43	39	38			38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	217203
5°	217125
10°	215455
15°	214014
20°	210753
25°	205935
30°	193903
35°	175479
40°	146532
45°	112283
50°	79520
55°	50130
60°	28276
65°	18355
70°	11989
75°	8811
80°	5304
85°	5284



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.2	5.8
10°-20°	1061.9	16.5
20°-30°	1556.9	24.2
30°-40°	1620.4	25.2
40°-50°	1121.1	17.5
50°-60°	488.1	7.6
60°-70°	149.7	2.3
70°-80°	44.9	0.7
80°-90°	6.9	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°	2993.0	46.6
0°-40°	4613.4	71.8
0°-60°	6222.6	96.9
0°-90°	6423.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6423.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3962	
5°	3946	374
15°	3771	1062
25°	3405	1557
35°	2622	1620
45°	1448	1121
55°	524	488
65°	142	150
75°	42	45
85°	8	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3962.1
2.5°	3970.5
5°	3945.6
7.5°	3912.4
10°	3870.5
12.5°	3828.9
15°	3770.9
17.5°	3695.8
20°	3612.6
22.5°	3521.0
25°	3404.6
27.5°	3254.7
30°	3063.2
32.5°	2863.3
35°	2622.1
37.5°	2355.8
40°	2047.6
42.5°	1739.7
45°	1448.3
47.5°	1173.6
50°	932.4
52.5°	707.7
55°	524.5
57.5°	374.6
60°	257.9
62.5°	191.5
65°	141.5
67.5°	108.3
70°	74.8
72.5°	58.3
75°	41.6
77.5°	24.8
80°	16.8
82.5°	8.4
85°	8.4
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)