

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: P579128

Luminaire Tested: **FLD6C-70-D010 FEU6C-X-90-40 F6X-W-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P579128
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-90-40 F6X-W-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 6LBWH TRIM

Light Source: -
Ballast/Driver: -

Summary

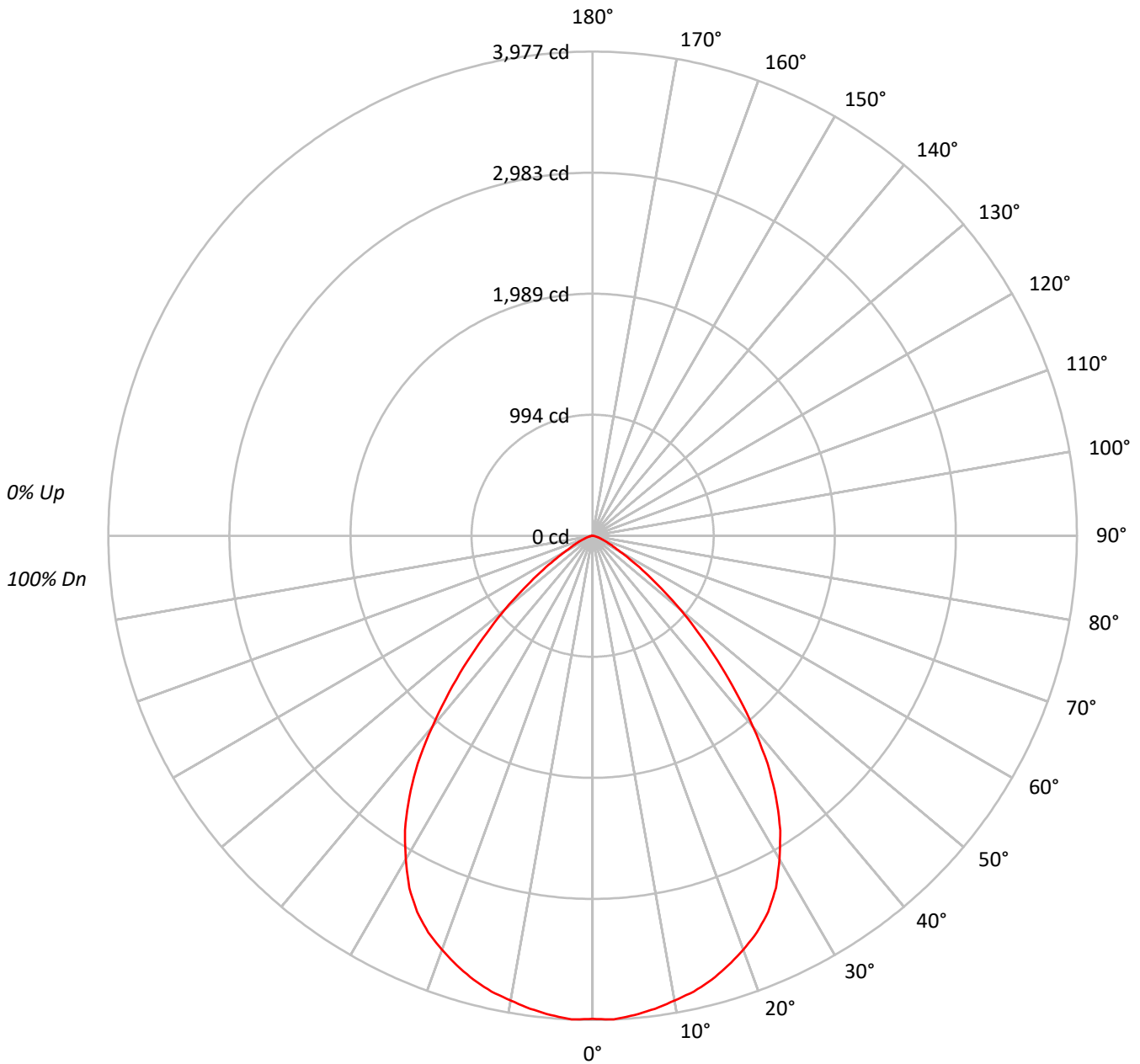
Lumens per Lamp: N/A
Luminaire Lumens: 6434.0 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	109	106	103	110	107	104	101	103	100	98	99	97	95	95	94	93	91		
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81		
3	98	90	84	79	96	89	83	78	86	81	77	83	79	76	81	78	75	73		
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65		
5	86	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59		
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53		
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49		
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44		
9	66	55	48	43	65	54	47	43	53	47	43	52	47	42	51	46	42	41		
10	62	51	44	40	61	50	44	39	50	43	39	49	43	39	48	43	39	38		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	217543
5°	217466
10°	215789
15°	214349
20°	211080
25°	206256
30°	194207
35°	175753
40°	146761
45°	112454
50°	79639
55°	50216
60°	28320
65°	18394
70°	12005
75°	8832
80°	5304
85°	5284



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.8	5.8
10°-20°	1063.5	16.5
20°-30°	1559.4	24.2
30°-40°	1622.9	25.2
40°-50°	1122.8	17.5
50°-60°	488.9	7.6
60°-70°	149.9	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°	2997.7	46.6
0°-40°	4620.6	71.8
0°-60°	6232.3	96.9
0°-90°	6434.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6434.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3968	
5°	3952	375
15°	3777	1064
25°	3410	1559
35°	2626	1623
45°	1450	1123
55°	525	489
65°	142	150
75°	42	45
85°	8	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3968.3
2.5°	3976.6
5°	3951.8
7.5°	3918.5
10°	3876.5
12.5°	3834.9
15°	3776.8
17.5°	3701.5
20°	3618.2
22.5°	3526.5
25°	3409.9
27.5°	3259.8
30°	3068.0
32.5°	2867.8
35°	2626.2
37.5°	2359.5
40°	2050.8
42.5°	1742.4
45°	1450.5
47.5°	1175.4
50°	933.8
52.5°	708.8
55°	525.4
57.5°	375.2
60°	258.3
62.5°	191.8
65°	141.8
67.5°	108.5
70°	74.9
72.5°	58.4
75°	41.7
77.5°	24.9
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)