

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: P578988

Luminaire Tested: **FLD6C-70-D010 FEU6C-X-90-30 F6X-N-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P578988
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P203666)
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-90-30 F6X-N-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 3000K, 90 CRI LEDS, 6LBNH TRIM

Light Source: -
Ballast/Driver: -

Summary

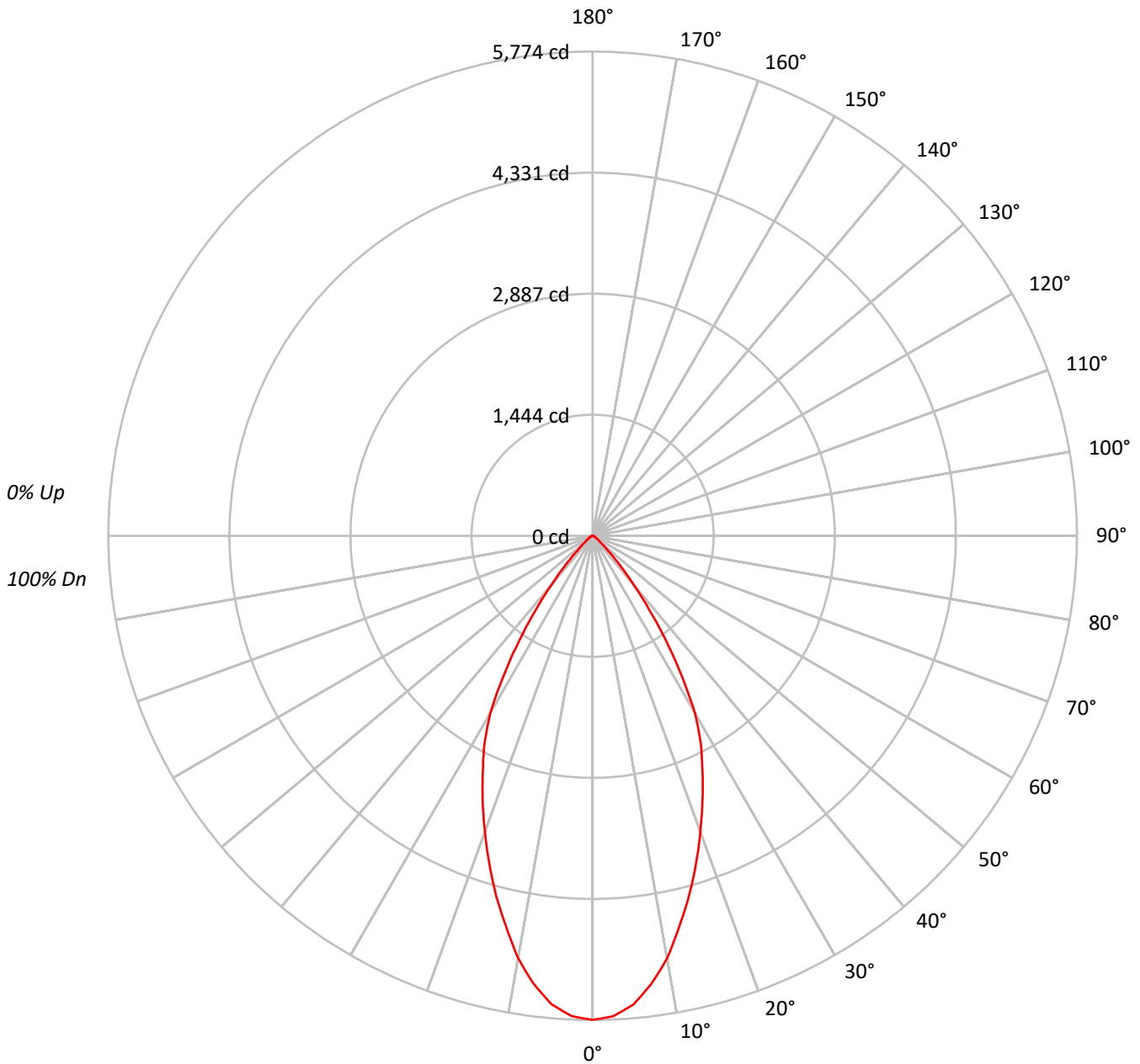
Lumens per Lamp: N/A
Luminaire Lumens: 4504.0 lumens
Efficiency: N/A
Efficacy: 57.7 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.78 / 0.84
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P578988

CATALOG NUMBER: FLD6C-70-D010 FEU6C-X-90-30 F6X-N-X-H

Luminous Intensity Polar Plot





TEST NUMBER: P578988

CATALOG NUMBER: FLD6C-70-D010 FEU6C-X-90-30 F6X-N-X-H

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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																			
1	113	111	108	106	111	109	106	104	104	103	101	101	99	98	97	96	95	93																			
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87																			
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81																			
4	97	90	84	80	95	89	83	79	86	82	78	84	81	78	83	79	77	75																			
5	92	84	78	74	91	83	78	73	81	76	73	80	75	72	78	74	72	70																			
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	65																			
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61																			
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58																			
9	76	66	60	56	75	66	60	56	65	59	56	64	59	56	63	59	55	54																			
10	72	62	57	53	71	62	57	53	61	56	53	60	56	52	60	55	52	51																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	316515
5°	308683
10°	284825
15°	252169
20°	218950
25°	187275
30°	154404
35°	101676
40°	54660
45°	24196
50°	9816
55°	7073
60°	4495
65°	3217
70°	2645
75°	1758
80°	2620
85°	0



TEST NUMBER: P578988

CATALOG NUMBER: FLD6C-70-D010 FEU6C-X-90-30 F6X-N-X-H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	519.2	11.5
10°-20°	1238.2	27.5
20°-30°	1418.4	31.5
30°-40°	953.0	21.2
40°-50°	272.3	6.0
50°-60°	66.6	1.5
60°-70°	25.3	0.6
70°-80°	9.8	0.2
80°-90°	1.1	0.0
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°	3175.8	70.5
0°-40°	4128.8	91.7
0°-60°	4467.7	99.2
0°-90°	4504.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4504.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5774	
5°	5609	519
15°	4443	1238
25°	3096	1418
35°	1519	953
45°	312	272
55°	74	67
65°	25	25
75°	8	10
85°	0	1
90°	0	



TEST NUMBER: P578988

CATALOG NUMBER: FLD6C-70-D010 FEU6C-X-90-30 F6X-N-X-H

CANDELA DISTRIBUTION (FULL):

0°	
0°	5773.7
2.5°	5732.7
5°	5609.4
7.5°	5387.5
10°	5116.7
12.5°	4771.5
15°	4443.2
17.5°	4098.3
20°	3753.1
22.5°	3424.8
25°	3096.1
27.5°	2792.3
30°	2439.2
32.5°	1971.0
35°	1519.3
37.5°	1108.7
40°	763.8
42.5°	500.9
45°	312.1
47.5°	188.8
50°	115.1
52.5°	90.3
55°	74.0
57.5°	57.5
60°	41.0
62.5°	32.7
65°	24.8
67.5°	16.5
70°	16.5
72.5°	8.3
75°	8.3
77.5°	8.3
80°	8.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180°







(END OF REPORT)