

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: P576098

Luminaire Tested: **FLD6C-20-D010 FEU6C-X-90-40 F6X-M-X-LI**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P576098
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205108)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD6C-20-D010 FEU6C-X-90-40 F6X-M-X-LI
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 6LBMLI TRIM

Light Source: -
Ballast/Driver: -

Summary

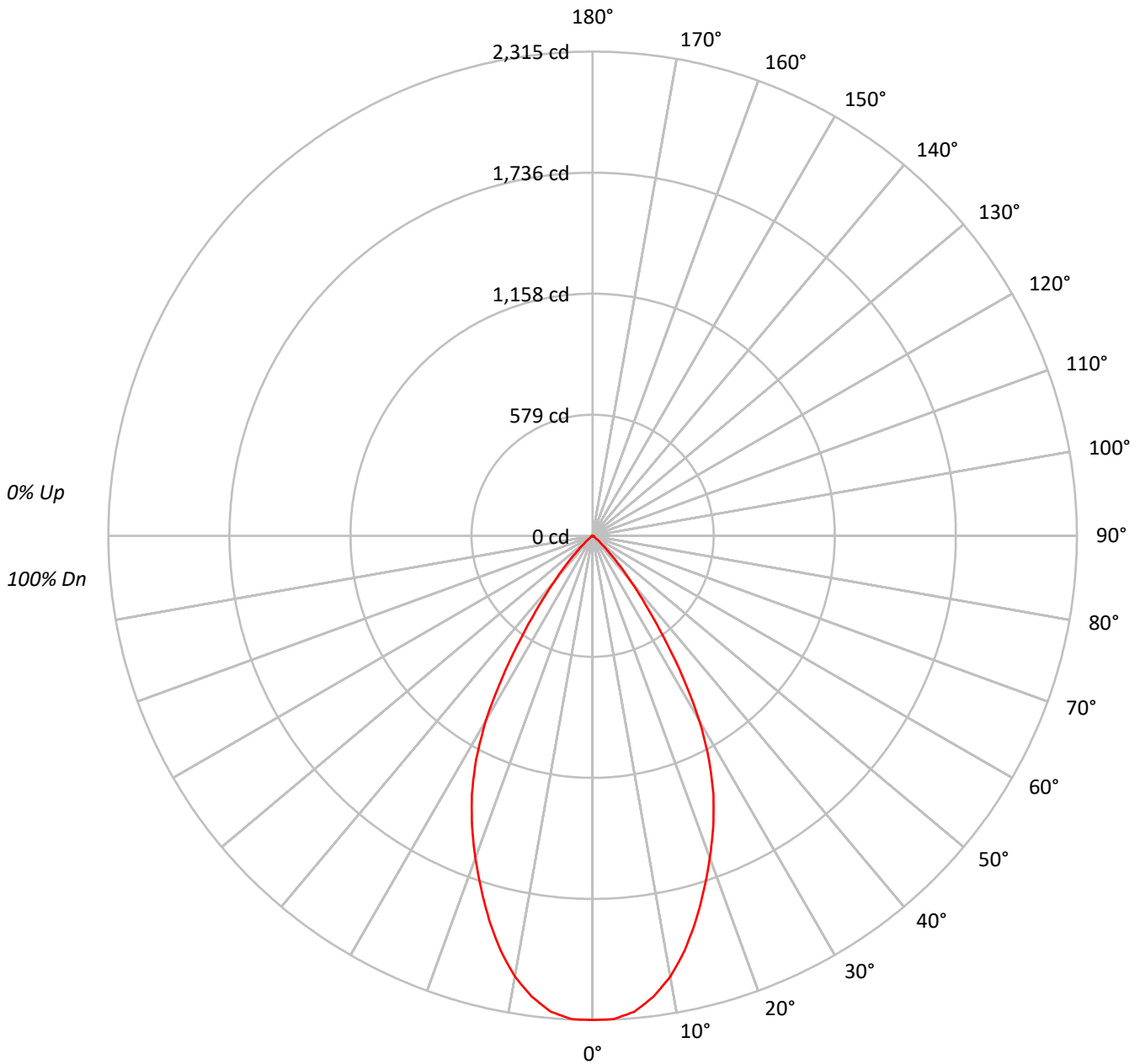
Lumens per Lamp: N/A
Luminaire Lumens: 1850.1 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.85
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
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: P576098

CATALOG NUMBER: FLD6C-20-D010 FEU6C-X-90-40 F6X-M-X-LI

Luminous Intensity Polar Plot





TEST NUMBER: P576098

CATALOG NUMBER: FLD6C-20-D010 FEU6C-X-90-40 F6X-M-X-LI

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	114	111	109	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94			94
2	108	103	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88			88
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	85	83	82			82
4	98	91	85	81	96	89	84	81	87	83	80	85	82	79	83	80	78	76			76
5	93	85	79	75	91	84	79	75	82	78	74	81	77	73	79	76	73	71			71
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67			67
7	84	75	69	65	83	75	69	65	73	68	65	72	68	64	71	67	64	63			63
8	80	71	65	61	79	70	65	61	69	64	61	68	64	60	67	63	60	59			59
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55			55
10	73	64	58	54	72	63	58	54	62	57	54	62	57	54	61	57	54	52			52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	126920
5°	125710
10°	119125
15°	108150
20°	95570
25°	82620
30°	64586
35°	39605
40°	20331
45°	8078
50°	2618
55°	908
60°	778
65°	623
70°	385
75°	508
80°	0
85°	0



TEST NUMBER: P576098

CATALOG NUMBER: FLD6C-20-D010 FEU6C-X-90-40 F6X-M-X-LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.3	11.5
10°-20°	531.0	28.7
20°-30°	617.3	33.4
30°-40°	378.0	20.4
40°-50°	93.9	5.1
50°-60°	11.0	0.6
60°-70°	4.1	0.2
70°-80°	1.6	0.1
80°-90°	0.0	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°	1361.5	73.6
0°-40°	1739.5	94.0
0°-60°	1844.4	99.7
0°-90°	1850.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1850.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2315	
5°	2284	213
15°	1906	531
25°	1366	617
35°	592	378
45°	104	94
55°	10	11
65°	5	4
75°	2	2
85°	0	0
90°	0	



TEST NUMBER: P576098

CATALOG NUMBER: FLD6C-20-D010 FEU6C-X-90-40 F6X-M-X-LI

CANDELA DISTRIBUTION (FULL):

0°	
0°	2315.2
2.5°	2312.8
5°	2284.4
7.5°	2222.9
10°	2140.0
12.5°	2031.1
15°	1905.6
17.5°	1770.7
20°	1638.2
22.5°	1505.6
25°	1365.9
27.5°	1205.0
30°	1020.3
32.5°	804.9
35°	591.8
37.5°	416.6
40°	284.1
42.5°	177.5
45°	104.2
47.5°	59.2
50°	30.7
52.5°	14.2
55°	9.5
57.5°	7.1
60°	7.1
62.5°	4.8
65°	4.8
67.5°	2.4
70°	2.4
72.5°	2.4
75°	2.4
77.5°	0.0
80°	0.0
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)