

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: P579508

Luminaire Tested: **FLD6C-80-D010 FEU6C-X-90-27 F6X-M-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P579508
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-90-27 F6X-M-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 6LBMH TRIM

Light Source: -
Ballast/Driver: -

Summary

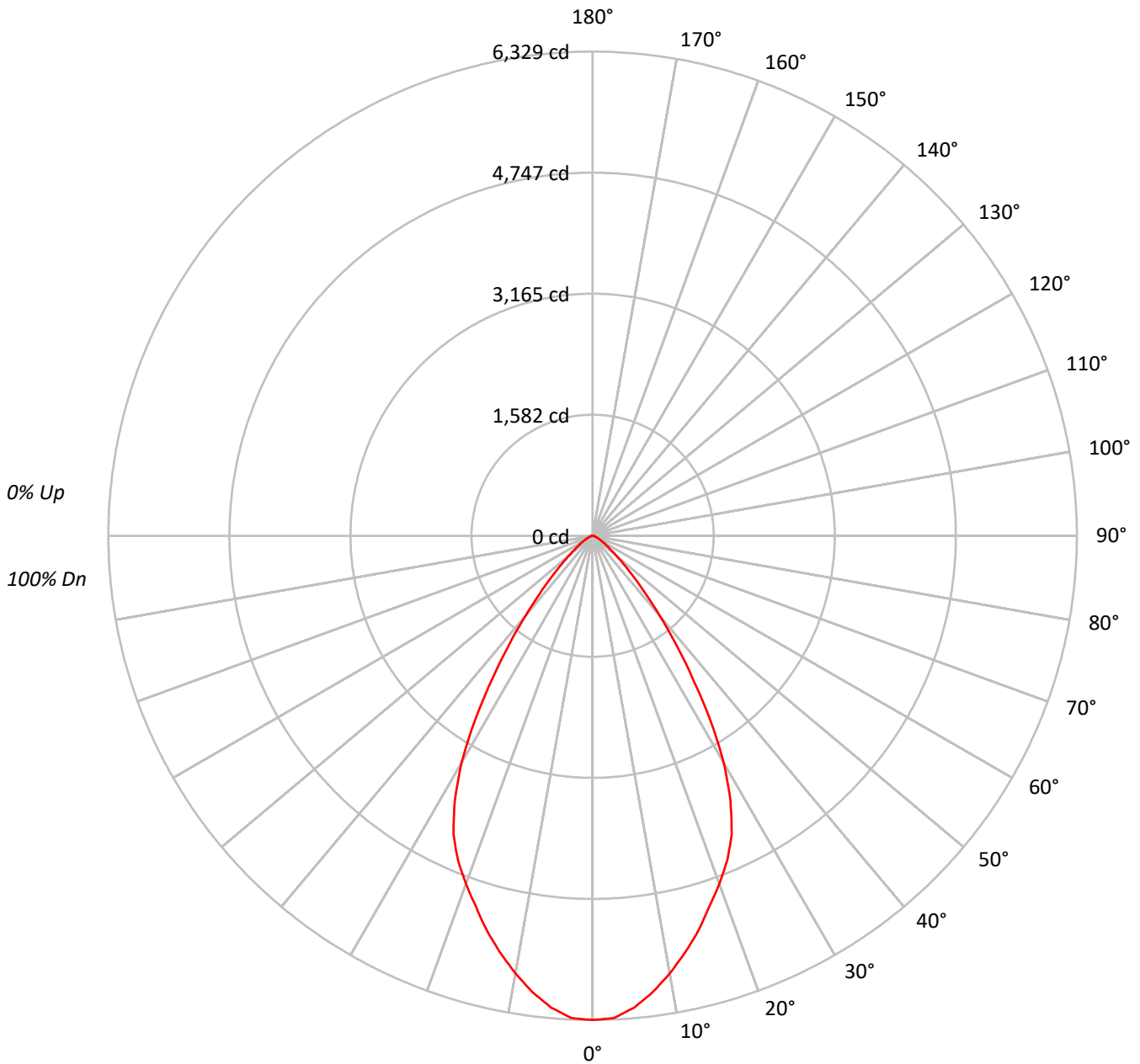
Lumens per Lamp: N/A
Luminaire Lumens: 6395.0 lumens
Efficiency: N/A
Efficacy: 71.5 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.93
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P579508

CATALOG NUMBER: FLD6C-80-D010 FEU6C-X-90-27 F6X-M-X-H

Luminous Intensity Polar Plot





TEST NUMBER: P579508

CATALOG NUMBER: FLD6C-80-D010 FEU6C-X-90-27 F6X-M-X-H

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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°	346946
5°	340738
10°	323324
15°	303197
20°	282370
25°	260174
30°	216787
35°	152792
40°	97375
45°	58068
50°	34276
55°	21810
60°	15021
65°	10663
70°	7341
75°	5804
80°	2841
85°	0



TEST NUMBER: P579508

CATALOG NUMBER: FLD6C-80-D010 FEU6C-X-90-27 F6X-M-X-H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	578.7	9.0
10°-20°	1497.0	23.4
20°-30°	1939.7	30.3
30°-40°	1440.1	22.5
40°-50°	607.9	9.5
50°-60°	215.8	3.4
60°-70°	83.3	1.3
70°-80°	28.8	0.5
80°-90°	3.7	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°	4015.3	62.8
0°-40°	5455.4	85.3
0°-60°	6279.2	98.2
0°-90°	6395.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6395.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6329	
5°	6192	579
15°	5342	1497
25°	4301	1940
35°	2283	1440
45°	749	608
55°	228	216
65°	82	83
75°	27	29
85°	0	4
90°	0	



TEST NUMBER: P579508

CATALOG NUMBER: FLD6C-80-D010 FEU6C-X-90-27 F6X-M-X-H

CANDELA DISTRIBUTION (FULL):

0°	
0°	6328.8
2.5°	6310.5
5°	6191.9
7.5°	6018.1
10°	5808.3
12.5°	5579.8
15°	5342.3
17.5°	5077.7
20°	4840.2
22.5°	4593.6
25°	4301.3
27.5°	3899.4
30°	3424.7
32.5°	2867.4
35°	2283.1
37.5°	1790.0
40°	1360.7
42.5°	1013.6
45°	749.0
47.5°	547.9
50°	401.9
52.5°	301.3
55°	228.2
57.5°	173.4
60°	137.0
62.5°	100.6
65°	82.2
67.5°	63.8
70°	45.8
72.5°	36.4
75°	27.4
77.5°	18.4
80°	9.0
82.5°	9.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180°







(END OF REPORT)