

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: P579918

Luminaire Tested: **FLD6C-90-D010 FEU6C-X-90-30 F6X-W-X-LI**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P579918
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205209)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD6C-90-D010 FEU6C-X-90-30 F6X-W-X-LI
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 3000K, 90 CRI LEDS, 6LBWLI TRIM

Light Source: -
Ballast/Driver: -

Summary

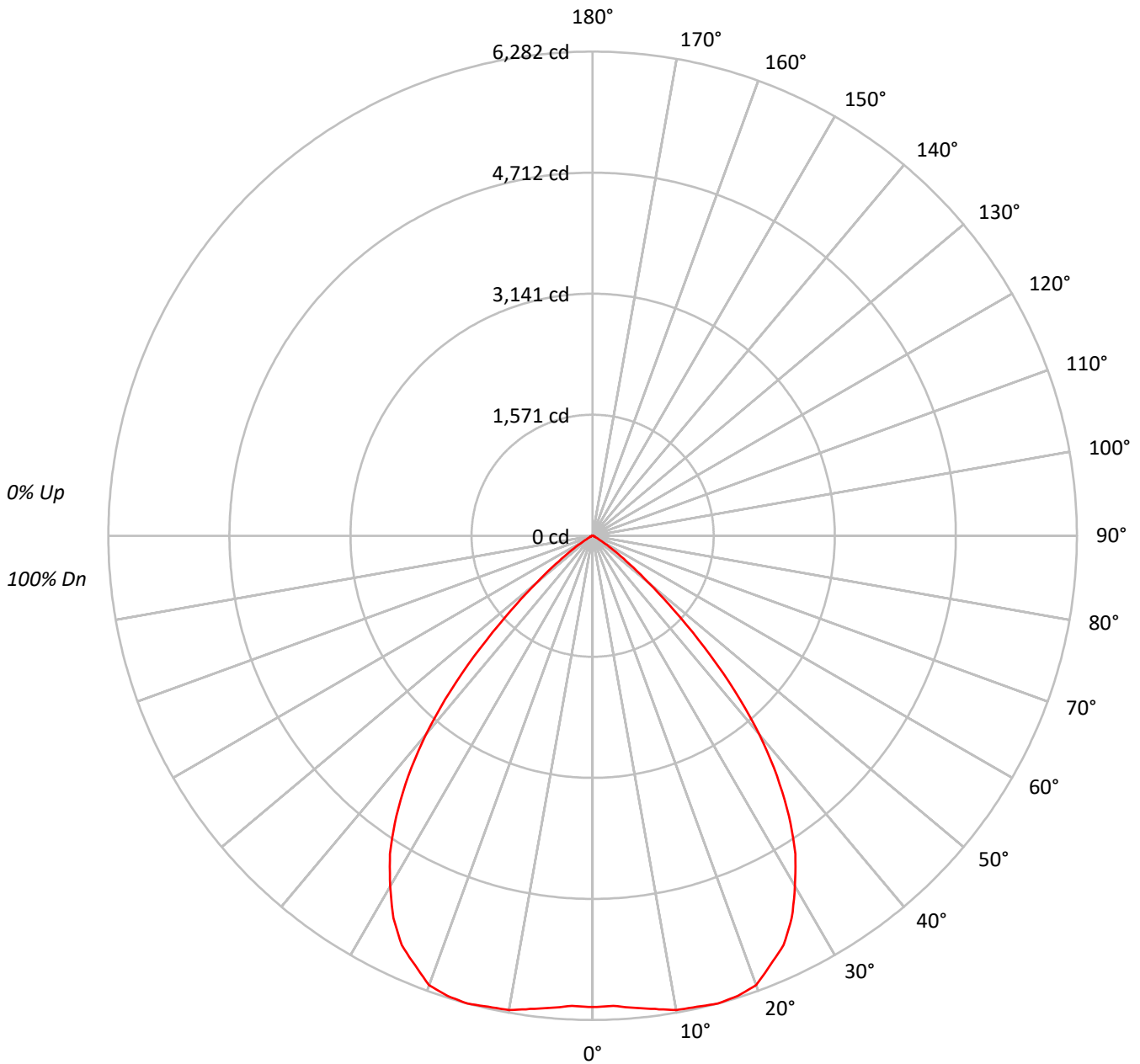
Lumens per Lamp: N/A
Luminaire Lumens: 9789.0 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.18
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 97.1
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: P579918

CATALOG NUMBER: FLD6C-90-D010 FEU6C-X-90-30 F6X-W-X-LI

Luminous Intensity Polar Plot





TEST NUMBER: P579918

CATALOG NUMBER: FLD6C-90-D010 FEU6C-X-90-30 F6X-W-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	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	110	107	104	110	107	105	103	103	101	99	100	98	97	96	95	94	92																																				
2	106	101	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83																																				
3	100	92	87	82	97	91	86	81	88	84	80	86	82	79	83	80	77	76																																				
4	93	85	78	73	92	84	78	73	81	76	72	79	75	71	77	74	70	69																																				
5	88	78	71	66	86	77	71	66	75	70	65	73	69	65	72	68	64	63																																				
6	82	72	65	60	81	71	65	60	70	64	59	68	63	59	67	62	59	57																																				
7	77	67	60	55	76	66	59	55	65	59	54	63	58	54	62	57	54	52																																				
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48																																				
9	69	57	51	46	67	57	50	46	56	50	46	55	50	46	54	49	46	44																																				
10	65	54	47	43	64	53	47	42	52	46	42	51	46	42	51	46	42	41																																				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	335247
5°	338355
10°	347817
15°	356523
20°	361931
25°	354456
30°	332317
35°	297112
40°	240651
45°	159195
50°	80466
55°	33949
60°	10942
65°	4294
70°	3574
75°	2372
80°	0
85°	0



TEST NUMBER: P579918

CATALOG NUMBER: FLD6C-90-D010 FEU6C-X-90-30 F6X-W-X-LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	590.0	6.0
10°-20°	1773.2	18.1
20°-30°	2673.0	27.3
30°-40°	2736.0	27.9
40°-50°	1593.9	16.3
50°-60°	366.3	3.7
60°-70°	44.9	0.5
70°-80°	11.8	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°	5036.2	51.4
0°-40°	7772.1	79.4
0°-60°	9732.3	99.4
0°-90°	9789.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9789.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6115	
5°	6149	590
15°	6282	1773
25°	5860	2673
35°	4440	2736
45°	2053	1594
55°	355	366
65°	33	45
75°	11	12
85°	0	0
90°	0	



TEST NUMBER: P579918

CATALOG NUMBER: FLD6C-90-D010 FEU6C-X-90-30 F6X-W-X-LI

CANDELA DISTRIBUTION (FULL):

0°	
0°	6115.4
2.5°	6104.3
5°	6148.6
7.5°	6192.9
10°	6248.3
12.5°	6259.5
15°	6281.9
17.5°	6259.5
20°	6204.0
22.5°	6026.4
25°	5860.0
27.5°	5593.8
30°	5249.8
32.5°	4894.6
35°	4439.6
37.5°	3928.8
40°	3362.8
42.5°	2730.3
45°	2053.4
47.5°	1431.6
50°	943.5
52.5°	599.5
55°	355.2
57.5°	188.8
60°	99.8
62.5°	55.5
65°	33.1
67.5°	33.1
70°	22.3
72.5°	11.2
75°	11.2
77.5°	11.2
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)