

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: P579858

Luminaire Tested: **FLD6C-90-D010 FEU6C-X-90-27 F6X-W-X-LI**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P579858
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-90-27 F6X-W-X-LI
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 6LBWLI TRIM

Light Source: -
Ballast/Driver: -

Summary

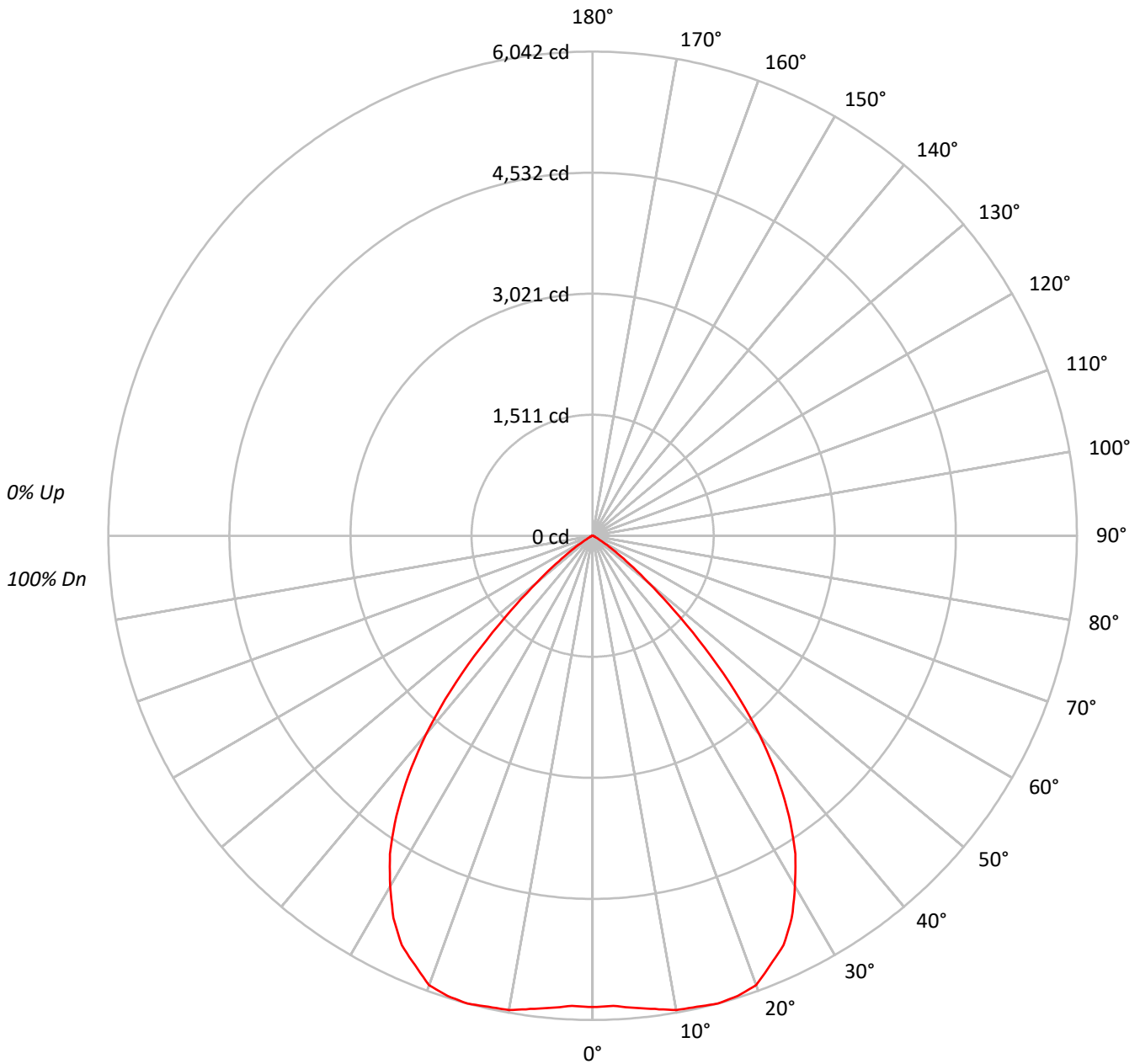
Lumens per Lamp: N/A
Luminaire Lumens: 9415.0 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.18
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	322441
5°	325428
10°	334530
15°	342902
20°	348105
25°	340913
30°	319619
35°	285762
40°	231462
45°	153109
50°	77388
55°	32649
60°	10525
65°	4138
70°	3446
75°	2266
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	567.4	6.0
10°-20°	1705.5	18.1
20°-30°	2570.9	27.3
30°-40°	2631.4	27.9
40°-50°	1533.0	16.3
50°-60°	352.3	3.7
60°-70°	43.3	0.5
70°-80°	11.3	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°	4843.8	51.4
0°-40°	7475.2	79.4
0°-60°	9360.4	99.4
0°-90°	9415.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9415.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5882	
5°	5914	567
15°	6042	1705
25°	5636	2571
35°	4270	2631
45°	1975	1533
55°	342	352
65°	32	43
75°	11	11
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5881.8
2.5°	5871.0
5°	5913.7
7.5°	5956.3
10°	6009.6
12.5°	6020.4
15°	6041.9
17.5°	6020.4
20°	5967.0
22.5°	5796.2
25°	5636.1
27.5°	5380.1
30°	5049.2
32.5°	4707.6
35°	4270.0
37.5°	3778.7
40°	3234.4
42.5°	2625.9
45°	1974.9
47.5°	1376.9
50°	907.4
52.5°	576.5
55°	341.6
57.5°	181.6
60°	96.0
62.5°	53.4
65°	31.9
67.5°	31.9
70°	21.5
72.5°	10.7
75°	10.7
77.5°	10.7
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)