

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: P576198

Luminaire Tested: **FLD6C-20-D010 FEU6C-X-90-50 F6X-W-X-LI**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P576198
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-20-D010 FEU6C-X-90-50 F6X-W-X-LI
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 6LBWLI TRIM

Light Source: -
Ballast/Driver: -

Summary

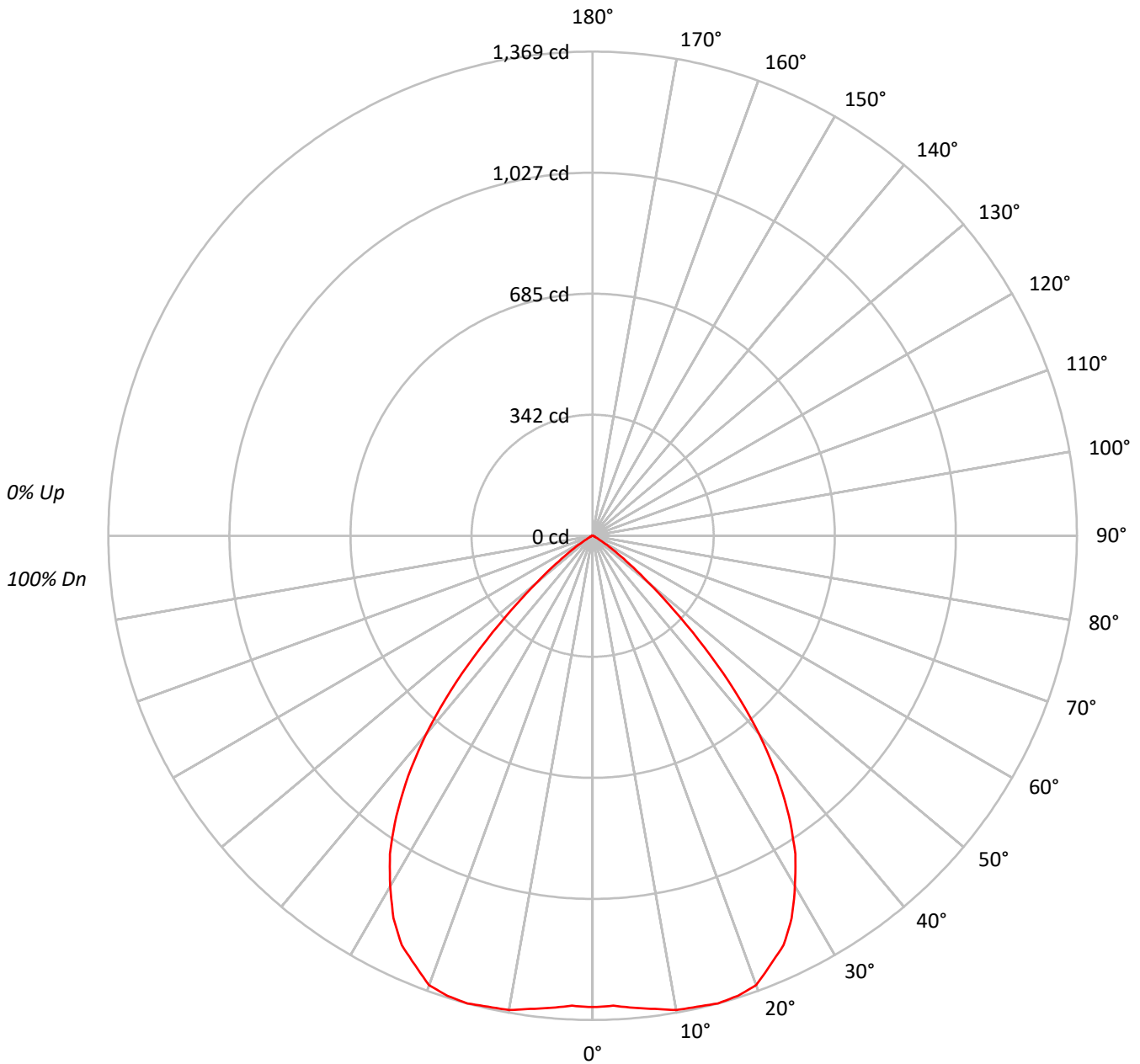
Lumens per Lamp: N/A
Luminaire Lumens: 2132.9 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.18
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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																												
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	74	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	43	52	46	42	51	46	42	51	46	42	41																												

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	73048
5°	73729
10°	75789
15°	77685
20°	78862
25°	77236
30°	72410
35°	64741
40°	52441
45°	34686
50°	17535
55°	7398
60°	2379
65°	934
70°	785
75°	508
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.5	6.0
10°-20°	386.4	18.1
20°-30°	582.4	27.3
30°-40°	596.2	28.0
40°-50°	347.3	16.3
50°-60°	79.8	3.7
60°-70°	9.8	0.5
70°-80°	2.5	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°	1097.4	51.4
0°-40°	1693.5	79.4
0°-60°	2120.6	99.4
0°-90°	2132.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2132.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1332	
5°	1340	129
15°	1369	386
25°	1277	582
35°	967	596
45°	447	347
55°	77	80
65°	7	10
75°	2	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1332.5
2.5°	1330.1
5°	1339.8
7.5°	1349.4
10°	1361.5
12.5°	1363.9
15°	1368.8
17.5°	1363.9
20°	1351.8
22.5°	1313.1
25°	1276.9
27.5°	1218.9
30°	1143.9
32.5°	1066.5
35°	967.4
37.5°	856.1
40°	732.8
42.5°	594.9
45°	447.4
47.5°	311.9
50°	205.6
52.5°	130.6
55°	77.4
57.5°	41.1
60°	21.7
62.5°	12.1
65°	7.2
67.5°	7.2
70°	4.9
72.5°	2.4
75°	2.4
77.5°	2.4
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)