

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: P577818

Luminaire Tested: **FLD6C-50-D010 FEU6C-X-90-30 F6X-W-X-LI**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P577818
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-50-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

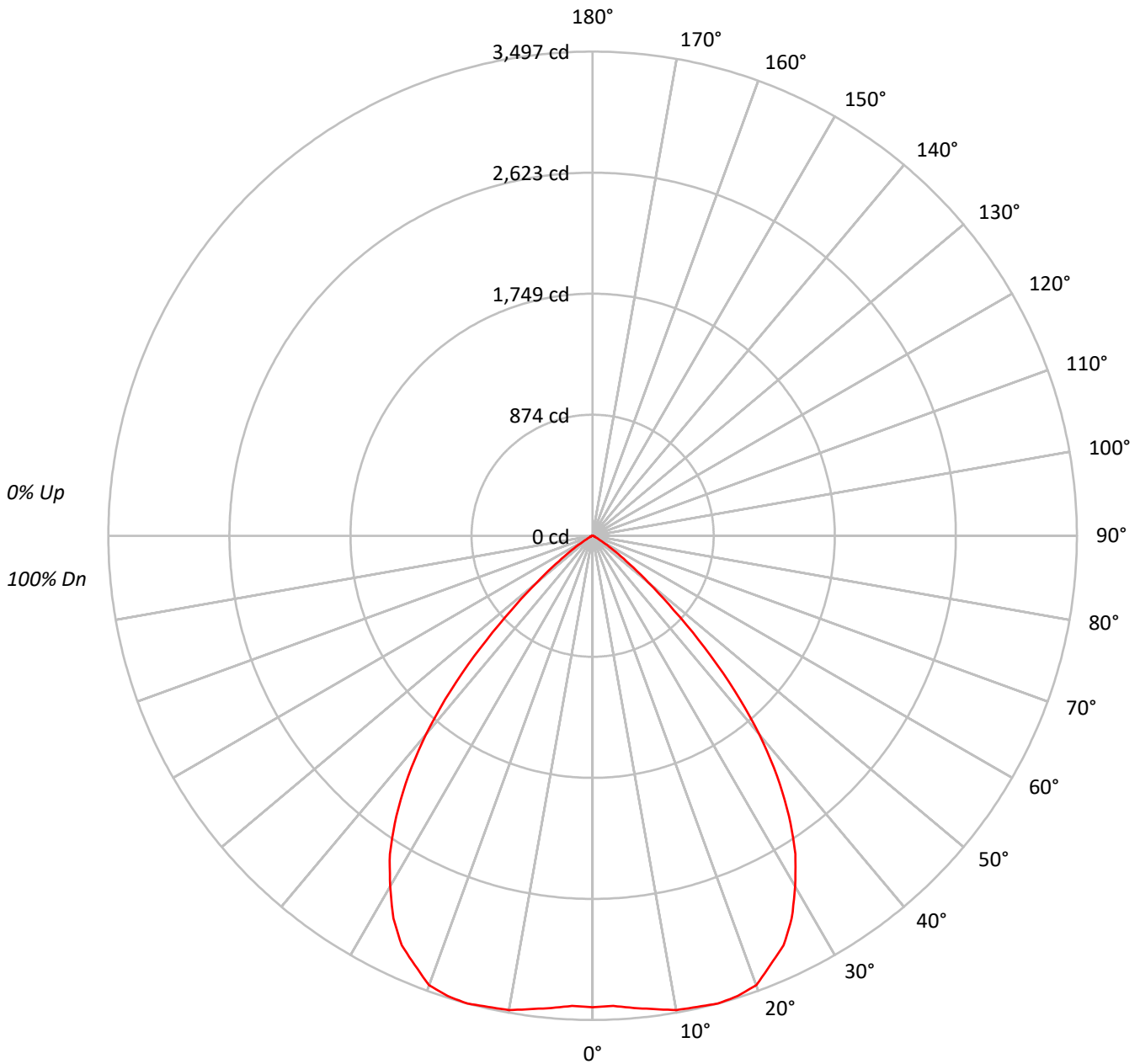
Lumens per Lamp: N/A
Luminaire Lumens: 5449.9 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.18
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
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°	186652
5°	188377
10°	193645
15°	198491
20°	201507
25°	197340
30°	185016
35°	165414
40°	133980
45°	88629
50°	44800
55°	18905
60°	6085
65°	2387
70°	1988
75°	1313
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.5	6.0
10°-20°	987.2	18.1
20°-30°	1488.2	27.3
30°-40°	1523.2	27.9
40°-50°	887.4	16.3
50°-60°	203.9	3.7
60°-70°	25.0	0.5
70°-80°	6.5	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°	2803.9	51.4
0°-40°	4327.1	79.4
0°-60°	5418.4	99.4
0°-90°	5449.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5449.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3405	
5°	3423	328
15°	3497	987
25°	3262	1488
35°	2472	1523
45°	1143	887
55°	198	204
65°	18	25
75°	6	7
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3404.8
2.5°	3398.5
5°	3423.2
7.5°	3447.9
10°	3478.7
12.5°	3485.0
15°	3497.4
17.5°	3485.0
20°	3454.1
22.5°	3355.2
25°	3262.5
27.5°	3114.3
30°	2922.8
32.5°	2725.0
35°	2471.7
37.5°	2187.3
40°	1872.2
42.5°	1520.1
45°	1143.2
47.5°	797.0
50°	525.3
52.5°	333.7
55°	197.8
57.5°	105.1
60°	55.5
62.5°	30.9
65°	18.4
67.5°	18.4
70°	12.4
72.5°	6.2
75°	6.2
77.5°	6.2
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)