

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: P575948

Luminaire Tested: **FLD6C-20-D010 FEU6C-X-90-27 F6X-W-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P575948
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P202739)
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-90-27 F6X-W-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 6LBWH TRIM

Light Source: -
Ballast/Driver: -

Summary

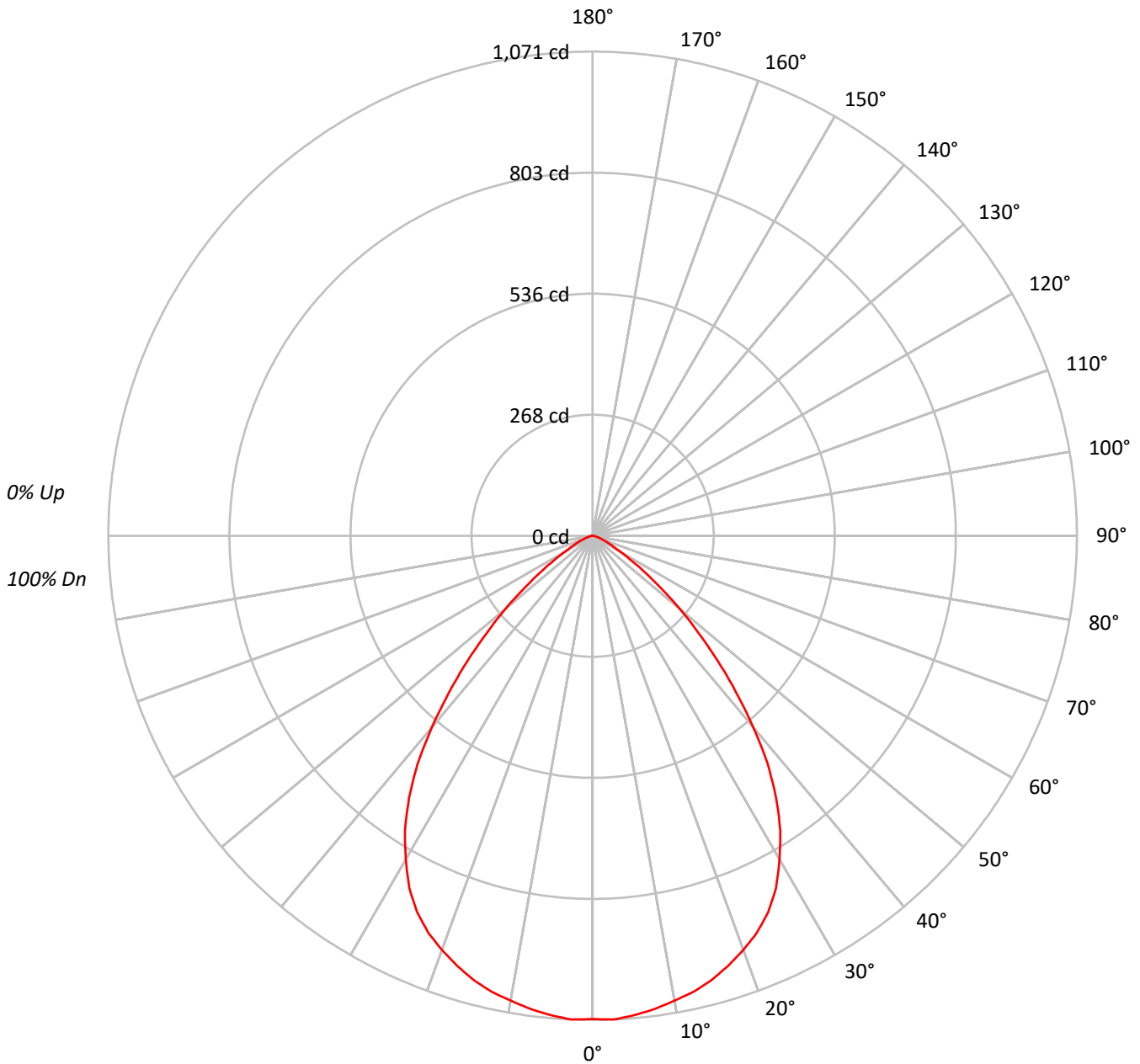
Lumens per Lamp: N/A
Luminaire Lumens: 1733.0 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P575948

CATALOG NUMBER: FLD6C-20-D010 FEU6C-X-90-27 F6X-W-X-H

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	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	112	109	106	103	110	107	104	101	103	100	98	99	97	95	95	94	93	91																																				
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81																																				
3	98	90	84	79	96	89	83	78	86	81	77	83	79	76	81	78	75	73																																				
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65																																				
5	86	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59																																				
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53																																				
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49																																				
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44																																				
9	66	55	48	43	65	54	47	43	53	47	43	52	47	42	51	46	42	41																																				
10	62	51	44	40	61	50	44	39	50	43	39	49	43	39	48	43	39	38																																				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	58597
5°	58573
10°	58121
15°	57736
20°	56857
25°	55558
30°	52312
35°	47341
40°	39531
45°	30290
50°	21449
55°	13524
60°	7631
65°	4955
70°	3238
75°	2372
80°	1421
85°	1447



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.0	5.8
10°-20°	286.5	16.5
20°-30°	420.0	24.2
30°-40°	437.1	25.2
40°-50°	302.4	17.5
50°-60°	131.7	7.6
60°-70°	40.4	2.3
70°-80°	12.1	0.7
80°-90°	1.9	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°	807.4	46.6
0°-40°	1244.6	71.8
0°-60°	1678.7	96.9
0°-90°	1733.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1733.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1069	
5°	1064	101
15°	1017	286
25°	918	420
35°	707	437
45°	391	302
55°	142	132
65°	38	40
75°	11	12
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1068.9
2.5°	1071.1
5°	1064.4
7.5°	1055.5
10°	1044.1
12.5°	1032.9
15°	1017.3
17.5°	997.0
20°	974.6
22.5°	949.9
25°	918.5
27.5°	878.0
30°	826.4
32.5°	772.4
35°	707.4
37.5°	635.5
40°	552.4
42.5°	469.3
45°	390.7
47.5°	316.6
50°	251.5
52.5°	190.9
55°	141.5
57.5°	101.1
60°	69.6
62.5°	51.7
65°	38.2
67.5°	29.2
70°	20.2
72.5°	15.7
75°	11.2
77.5°	6.7
80°	4.5
82.5°	2.3
85°	2.3
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180°







(END OF REPORT)