

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: P576468

Luminaire Tested: **FLD6C-25-D010 FEU6C-X-90-50 F6X-N-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P576468
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P203666)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD6C-25-D010 FEU6C-X-90-50 F6X-N-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 6LBNH TRIM

Light Source: -
Ballast/Driver: -

Summary

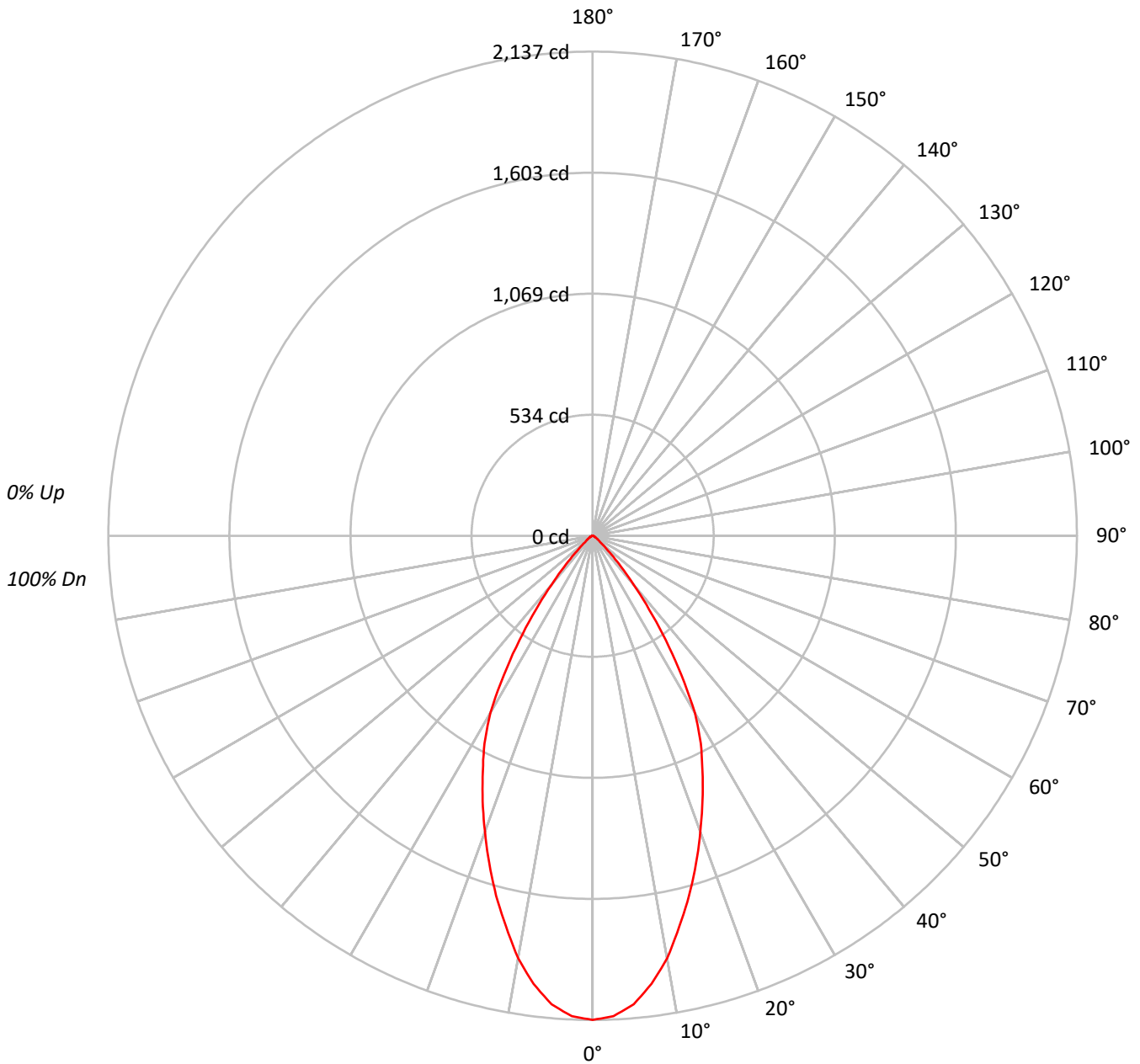
Lumens per Lamp: N/A
Luminaire Lumens: 1667.0 lumens
Efficiency: N/A
Efficacy: 52.9 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.78 / 0.84
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
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: P576468

CATALOG NUMBER: FLD6C-25-D010 FEU6C-X-90-50 F6X-N-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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	111	108	106	111	109	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81
4	97	90	84	80	95	89	83	79	86	82	78	84	81	78	83	79	77	75
5	92	84	78	74	91	83	78	73	81	76	73	80	75	72	78	74	72	70
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	65
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58
9	76	66	60	56	75	66	60	56	65	59	56	64	59	56	63	59	55	54
10	72	62	57	53	71	62	57	53	61	56	53	60	56	52	60	55	52	51

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	117145
5°	114247
10°	105420
15°	93332
20°	81038
25°	69312
30°	57148
35°	37631
40°	20231
45°	8954
50°	3633
55°	2619
60°	1667
65°	1193
70°	978
75°	657
80°	979
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.2	11.5
10°-20°	458.3	27.5
20°-30°	525.0	31.5
30°-40°	352.7	21.2
40°-50°	100.8	6.0
50°-60°	24.7	1.5
60°-70°	9.4	0.6
70°-80°	3.7	0.2
80°-90°	0.4	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°	1175.4	70.5
0°-40°	1528.1	91.7
0°-60°	1653.6	99.2
0°-90°	1667.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1667.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2137	
5°	2076	192
15°	1644	458
25°	1146	525
35°	562	353
45°	116	101
55°	27	25
65°	9	9
75°	3	4
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2136.9
2.5°	2121.7
5°	2076.1
7.5°	1994.0
10°	1893.8
12.5°	1766.0
15°	1644.5
17.5°	1516.8
20°	1389.1
22.5°	1267.6
25°	1145.9
27.5°	1033.5
30°	902.8
32.5°	729.5
35°	562.3
37.5°	410.3
40°	282.7
42.5°	185.4
45°	115.5
47.5°	69.9
50°	42.6
52.5°	33.4
55°	27.4
57.5°	21.3
60°	15.2
62.5°	12.1
65°	9.2
67.5°	6.1
70°	6.1
72.5°	3.1
75°	3.1
77.5°	3.1
80°	3.1
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)