

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: P578748

Luminaire Tested: **FLD6C-65-D010 FEU6C-X-90-35 F6X-N-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P578748
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-65-D010 FEU6C-X-90-35 F6X-N-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 3500K, 90 CRI LEDS, 6LBNH TRIM

Light Source: -
Ballast/Driver: -

Summary

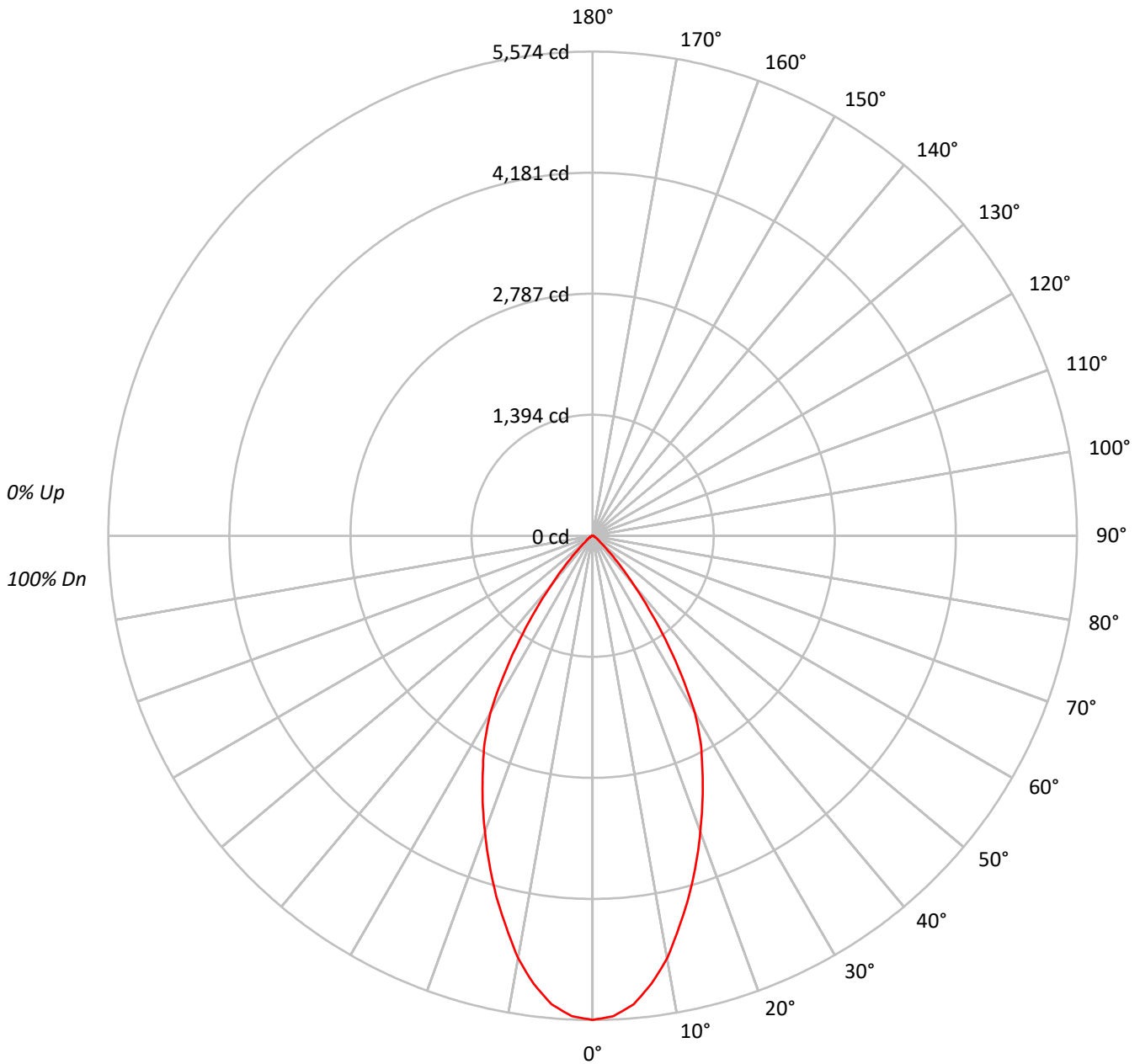
Lumens per Lamp: N/A
Luminaire Lumens: 4348.0 lumens
Efficiency: N/A
Efficacy: 60.1 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.78 / 0.84
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 72.4
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

TEST NUMBER: P578748

CATALOG NUMBER: FLD6C-65-D010 FEU6C-X-90-35 F6X-N-X-H

Luminous Intensity Polar Plot





TEST NUMBER: P578748

CATALOG NUMBER: FLD6C-65-D010 FEU6C-X-90-35 F6X-N-X-H

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	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°	305551
5°	297991
10°	274962
15°	243435
20°	211366
25°	180791
30°	149055
35°	98156
40°	52763
45°	23359
50°	9475
55°	6834
60°	4342
65°	3100
70°	2549
75°	1694
80°	2526
85°	0



TEST NUMBER: P578748

CATALOG NUMBER: FLD6C-65-D010 FEU6C-X-90-35 F6X-N-X-H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	501.2	11.5
10°-20°	1195.3	27.5
20°-30°	1369.3	31.5
30°-40°	920.0	21.2
40°-50°	262.9	6.0
50°-60°	64.3	1.5
60°-70°	24.4	0.6
70°-80°	9.5	0.2
80°-90°	1.1	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°	3065.8	70.5
0°-40°	3985.8	91.7
0°-60°	4313.0	99.2
0°-90°	4348.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4348.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5574	
5°	5415	501
15°	4289	1195
25°	2989	1369
35°	1467	920
45°	301	263
55°	72	64
65°	24	24
75°	8	9
85°	0	1
90°	0	



TEST NUMBER: P578748

CATALOG NUMBER: FLD6C-65-D010 FEU6C-X-90-35 F6X-N-X-H

CANDELA DISTRIBUTION (FULL):

	0°
0°	5573.7
2.5°	5534.1
5°	5415.1
7.5°	5200.9
10°	4939.5
12.5°	4606.3
15°	4289.3
17.5°	3956.4
20°	3623.1
22.5°	3306.2
25°	2988.9
27.5°	2695.6
30°	2354.7
32.5°	1902.7
35°	1466.7
37.5°	1070.3
40°	737.3
42.5°	483.6
45°	301.3
47.5°	182.3
50°	111.1
52.5°	87.1
55°	71.5
57.5°	55.5
60°	39.6
62.5°	31.6
65°	23.9
67.5°	15.9
70°	15.9
72.5°	8.0
75°	8.0
77.5°	8.0
80°	8.0
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)