

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: P578568

Luminaire Tested: **FLD6C-60-D010 FEU6C-X-90-50 F6X-N-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P578568
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-60-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

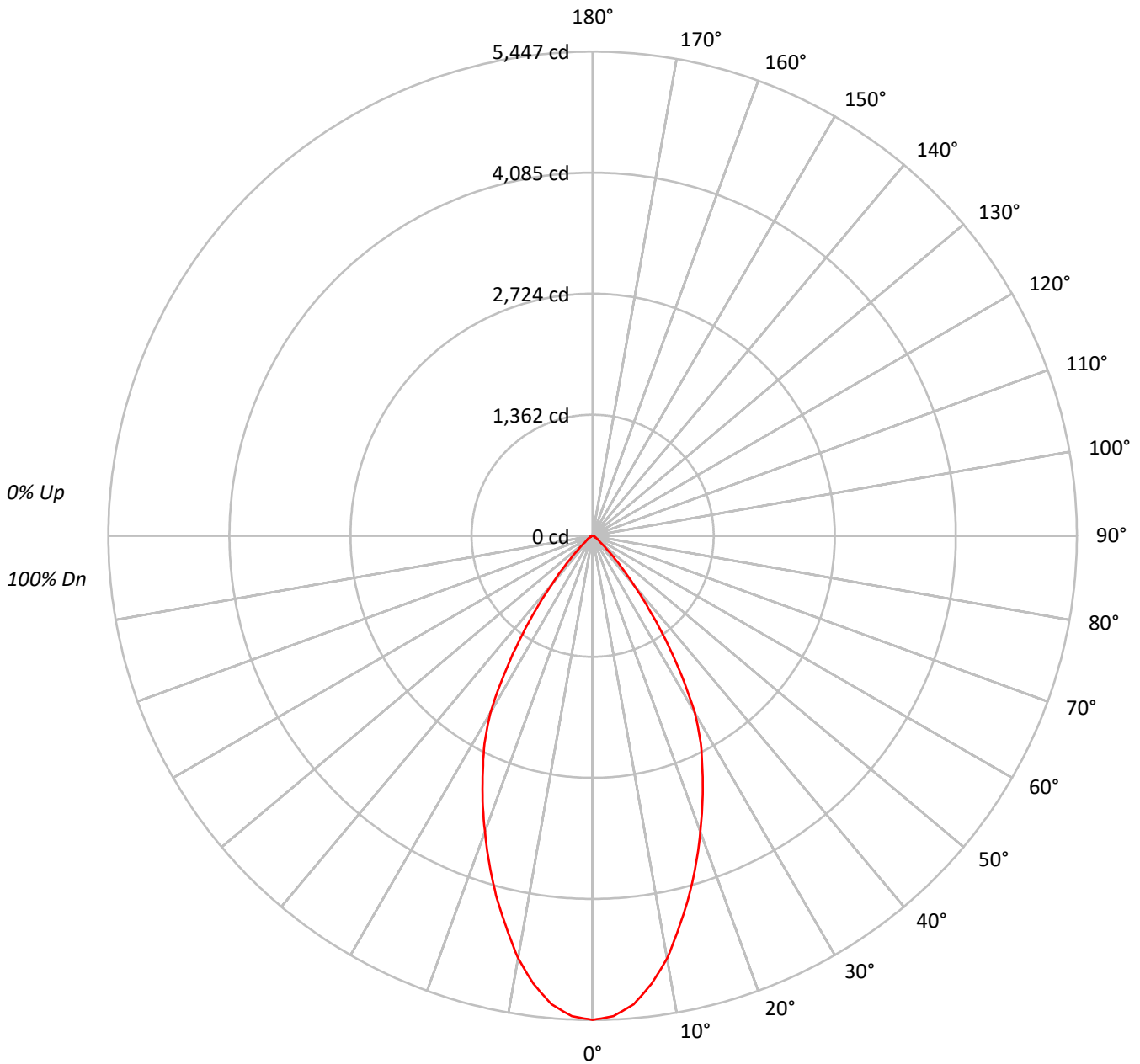
Lumens per Lamp: N/A
Luminaire Lumens: 4249.1 lumens
Efficiency: N/A
Efficacy: 59.0 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.78 / 0.84
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 72
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	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°	298594
5°	291205
10°	268699
15°	237890
20°	206553
25°	176678
30°	145662
35°	95921
40°	51561
45°	22832
50°	9253
55°	6681
60°	4243
65°	3035
70°	2500
75°	1652
80°	2462
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	489.8	11.5
10°-20°	1168.1	27.5
20°-30°	1338.1	31.5
30°-40°	899.1	21.2
40°-50°	256.9	6.0
50°-60°	62.9	1.5
60°-70°	23.9	0.6
70°-80°	9.3	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°	2996.0	70.5
0°-40°	3895.1	91.7
0°-60°	4214.8	99.2
0°-90°	4249.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4249.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5447	
5°	5292	490
15°	4192	1168
25°	2921	1338
35°	1433	899
45°	294	257
55°	70	63
65°	23	24
75°	8	9
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5446.8
2.5°	5408.1
5°	5291.8
7.5°	5082.5
10°	4827.0
12.5°	4501.4
15°	4191.6
17.5°	3866.3
20°	3540.6
22.5°	3230.9
25°	2920.9
27.5°	2634.2
30°	2301.1
32.5°	1859.4
35°	1433.3
37.5°	1045.9
40°	720.5
42.5°	472.6
45°	294.5
47.5°	178.1
50°	108.5
52.5°	85.2
55°	69.9
57.5°	54.3
60°	38.7
62.5°	30.9
65°	23.4
67.5°	15.6
70°	15.6
72.5°	7.8
75°	7.8
77.5°	7.8
80°	7.8
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)