

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: P575458

Luminaire Tested: **FLD6C-120-D010 FEU6C-X-90-35 F6X-N-X-LI**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P575458
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205310)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD6C-120-D010 FEU6C-X-90-35 F6X-N-X-LI
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 3500K, 90 CRI LEDS, 6LBNLI TRIM

Light Source: -
Ballast/Driver: -

Summary

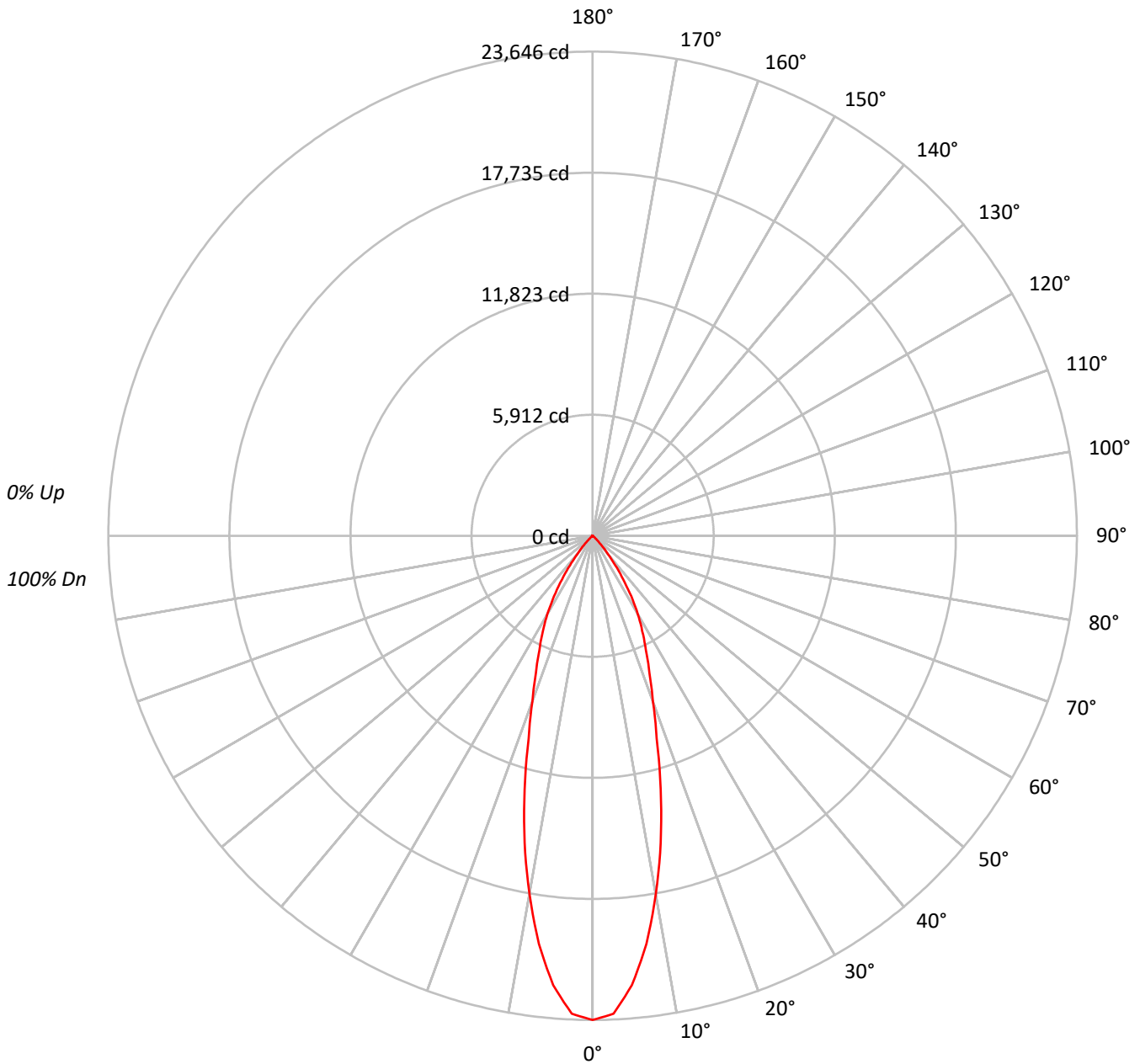
Lumens per Lamp: N/A
Luminaire Lumens: 10386.1 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Spacing Criteria (0/90/45): 0.53 / 0.53 / 0.58
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 142.3
Input Voltage (V): NR
Input Current (Ain): 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	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	114	112	109	107	112	109	107	106	105	104	102	102	101	99	98	97	96	95																												
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89																												
3	105	99	94	91	103	97	93	90	95	91	89	93	90	87	90	88	86	85																												
4	100	93	88	85	98	92	88	84	90	86	83	88	85	82	86	84	81	80																												
5	96	88	83	79	94	87	83	79	86	82	78	84	81	78	83	80	77	76																												
6	92	84	79	75	90	83	78	75	82	77	74	80	76	74	79	76	73	72																												
7	88	80	74	71	87	79	74	71	78	73	70	77	73	70	76	72	69	68																												
8	84	76	71	67	83	75	70	67	74	70	67	73	69	66	73	69	66	65																												
9	81	73	67	64	80	72	67	64	71	67	63	70	66	63	70	66	63	62																												
10	78	69	64	61	77	69	64	61	68	64	61	67	63	60	67	63	60	59																												

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1296305
5°	1212263
10°	988692
15°	727552
20°	501471
25°	372294
30°	279644
35°	174381
40°	84651
45°	29042
50°	3812
55°	2877
60°	1656
65°	1959
70°	2420
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1966.0	18.9
10°-20°	3528.9	34.0
20°-30°	2853.1	27.5
30°-40°	1643.6	15.8
40°-50°	347.5	3.3
50°-60°	30.0	0.3
60°-70°	15.0	0.1
70°-80°	2.0	0.0
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°	8348.1	80.4
0°-40°	9991.7	96.2
0°-60°	10369.1	99.8
0°-90°	10386.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10386.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	23646	
5°	22029	###
15°	12819	3529
25°	6155	2853
35°	2606	1644
45°	375	347
55°	30	30
65°	15	15
75°	0	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	23646.5
2.5°	23362.3
5°	22029.3
7.5°	20112.4
10°	17761.2
12.5°	15350.3
15°	12819.4
17.5°	10378.3
20°	8595.9
22.5°	7233.3
25°	6154.9
27.5°	5241.6
30°	4417.7
32.5°	3504.5
35°	2605.7
37.5°	1812.0
40°	1182.9
42.5°	719.0
45°	374.6
47.5°	149.6
50°	44.7
52.5°	44.7
55°	30.1
57.5°	30.1
60°	15.1
62.5°	15.1
65°	15.1
67.5°	15.1
70°	15.1
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)