

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: P574038

Luminaire Tested: **FLD6C-02-D010 FEU6C-X-90-40 F6X-W-X-LI**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P574038
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205209)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD6C-02-D010 FEU6C-X-90-40 F6X-W-X-LI
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 6LBWLI TRIM

Light Source: -
Ballast/Driver: -

Summary

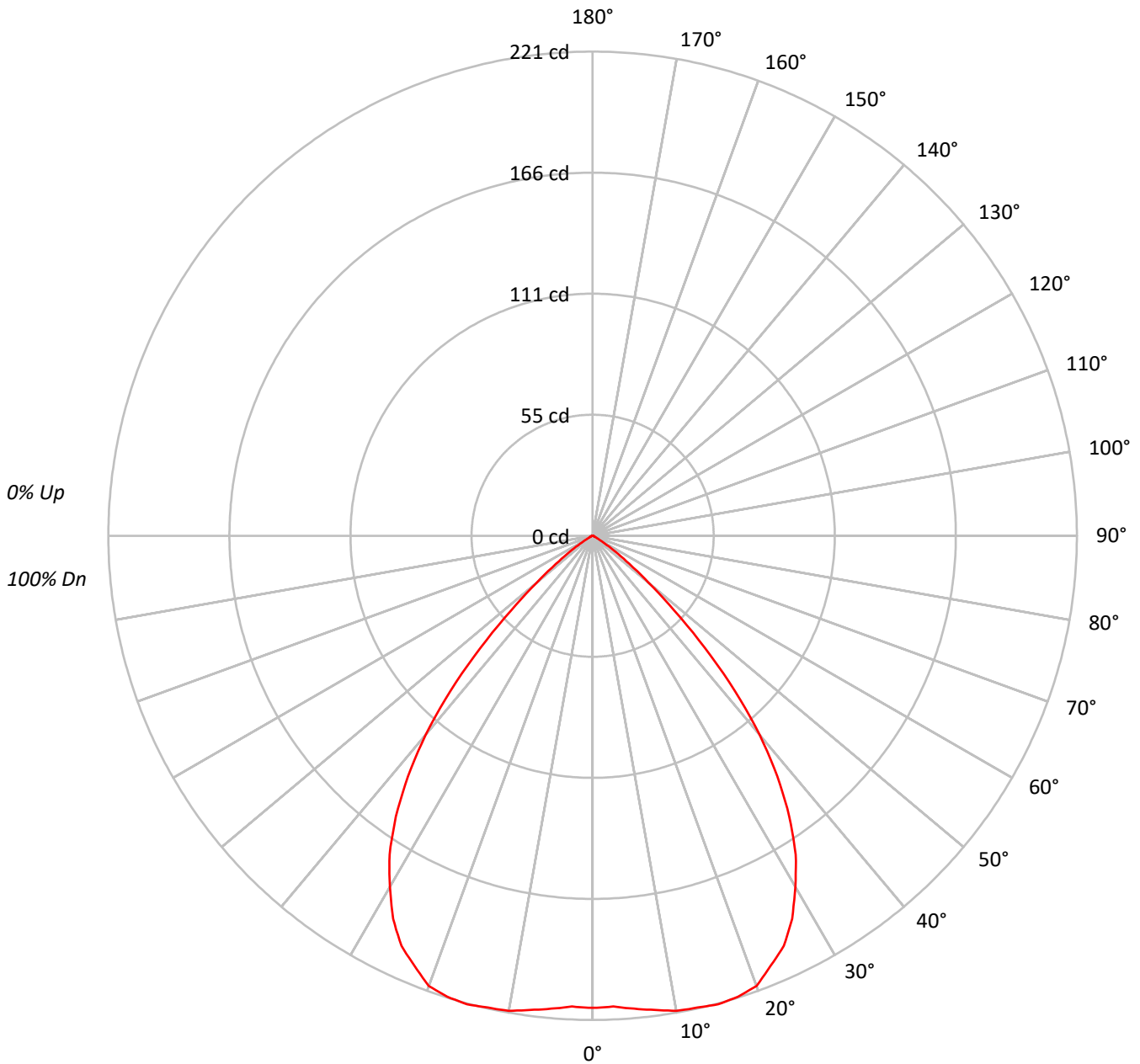
Lumens per Lamp: N/A
Luminaire Lumens: 345.1 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.18
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 3.5
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

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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	0																			
RCR																																														
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100											100																	
1	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92											92																	
2	106	101	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83											83																	
3	100	92	87	82	97	91	86	81	88	84	80	86	82	79	83	80	77	76											76																	
4	93	85	78	73	92	84	78	73	81	76	72	79	75	71	77	74	70	69											69																	
5	88	78	71	66	86	77	71	66	75	70	65	73	69	65	72	68	64	63											63																	
6	82	72	65	60	81	71	65	60	70	64	59	68	63	59	67	62	59	57											57																	
7	77	67	60	55	76	66	59	55	65	59	54	63	58	54	62	57	54	52											52																	
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48											48																	
9	68	57	51	46	67	57	50	46	56	50	46	55	50	46	54	49	45	44											44																	
10	65	54	47	43	64	53	47	42	52	46	42	51	46	42	51	46	42	41											41																	

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	11814
5°	11925
10°	12258
15°	12565
20°	12759
25°	12491
30°	11711
35°	10473
40°	8480
45°	5613
50°	2840
55°	1195
60°	384
65°	156
70°	128
75°	85
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.8	6.0
10°-20°	62.5	18.1
20°-30°	94.2	27.3
30°-40°	96.4	27.9
40°-50°	56.2	16.3
50°-60°	12.9	3.7
60°-70°	1.6	0.5
70°-80°	0.4	0.1
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°	177.5	51.4
0°-40°	273.9	79.4
0°-60°	343.0	99.4
0°-90°	345.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	345.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	216	
5°	217	21
15°	221	62
25°	206	94
35°	156	96
45°	72	56
55°	12	13
65°	1	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	215.5
2.5°	215.1
5°	216.7
7.5°	218.3
10°	220.2
12.5°	220.6
15°	221.4
17.5°	220.6
20°	218.7
22.5°	212.4
25°	206.5
27.5°	197.1
30°	185.0
32.5°	172.5
35°	156.5
37.5°	138.5
40°	118.5
42.5°	96.2
45°	72.4
47.5°	50.5
50°	33.3
52.5°	21.1
55°	12.5
57.5°	6.7
60°	3.5
62.5°	2.0
65°	1.2
67.5°	1.2
70°	0.8
72.5°	0.4
75°	0.4
77.5°	0.4
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)