

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: P573763

Luminaire Tested: **FLD4C-50-D010 FEU4C-X-90-50 F4X-M-X-H-BL84**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573763
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P207151)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD4C-50-D010 FEU4C-X-90-50 F4X-M-X-H-BL84
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 4LBMH TRIM
AND BOTTOM LENS, 0.125" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

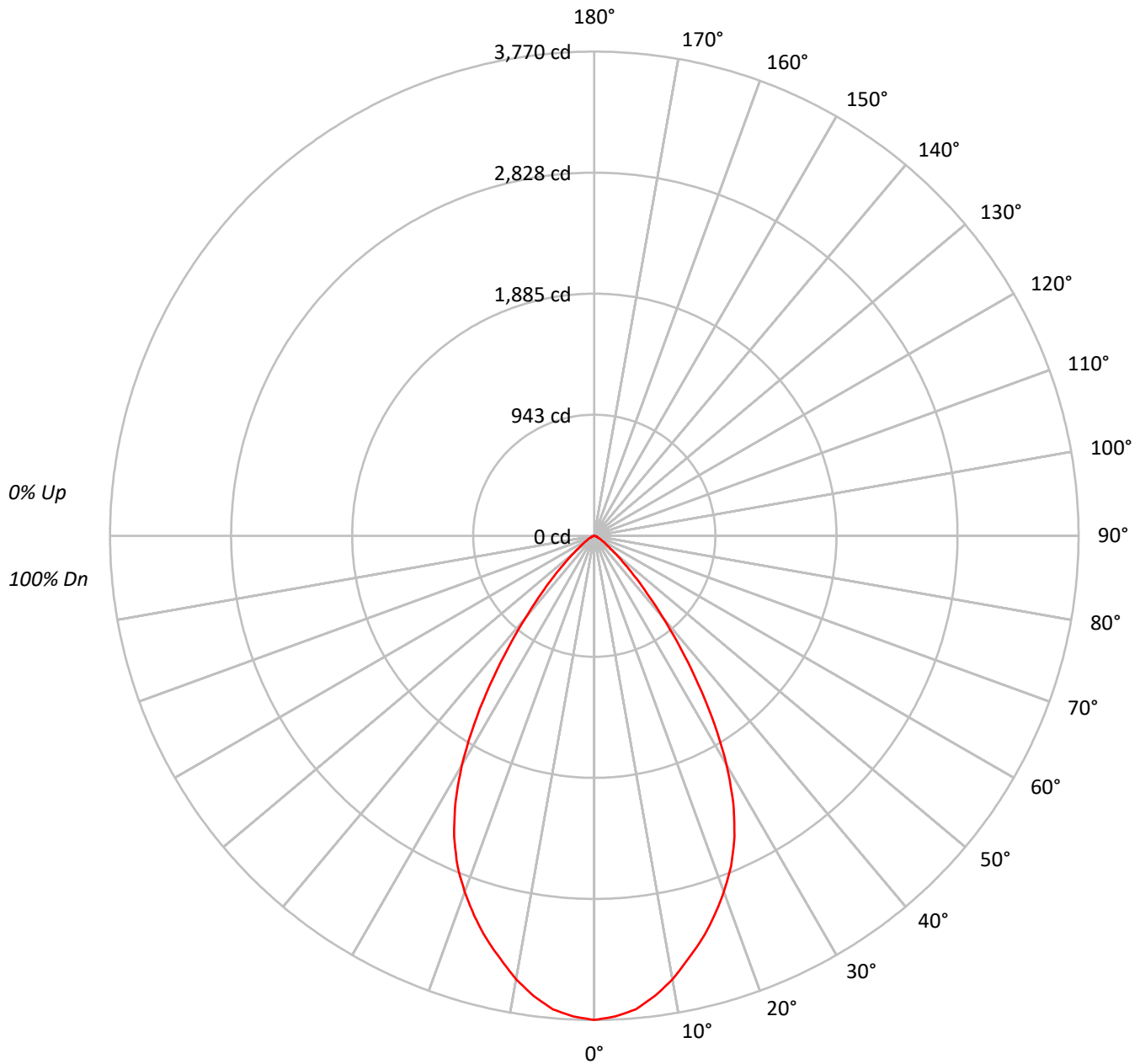
Lumens per Lamp: N/A
Luminaire Lumens: 3802.0 lumens
Efficiency: N/A
Efficacy: 65.1 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
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
RW	70	50	30	10		70	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			100
1	113	110	108	105		111	108	106	104		104	102	100			100	99	97			93
2	107	102	98	94		105	100	96	93		97	94	91			94	91	89			85
3	101	94	89	85		99	93	88	84		90	86	83			88	84	82			79
4	96	88	82	77		94	86	81	77		84	80	76			82	78	75			73
5	90	82	75	71		89	81	75	70		79	74	70			77	73	69			67
6	86	76	70	65		84	75	69	65		74	68	64			72	68	64			62
7	81	71	65	60		80	70	64	60		69	64	60			68	63	59			58
8	77	67	60	56		75	66	60	56		65	59	56			64	59	55			54
9	73	63	56	52		72	62	56	52		61	56	52			60	55	52			50
10	69	59	53	49		68	59	53	49		58	52	49			57	52	48			47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	463145
5°	456418
10°	437356
15°	413079
20°	385585
25°	350027
30°	292229
35°	211707
40°	132533
45°	75751
50°	39506
55°	22126
60°	14104
65°	8343
70°	6178
75°	2706
80°	4033
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.9	9.1
10°-20°	910.1	23.9
20°-30°	1169.6	30.8
30°-40°	879.9	23.1
40°-50°	353.4	9.3
50°-60°	100.5	2.6
60°-70°	31.8	0.8
70°-80°	9.0	0.2
80°-90°	0.8	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°	2426.5	63.8
0°-40°	3306.5	87.0
0°-60°	3760.3	98.9
0°-90°	3802.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3802.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3770	
5°	3701	347
15°	3248	910
25°	2582	1170
35°	1412	880
45°	436	353
55°	103	100
65°	29	32
75°	6	9
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3769.9
2.5°	3747.0
5°	3701.0
7.5°	3614.9
10°	3505.9
12.5°	3374.1
15°	3247.8
17.5°	3104.3
20°	2949.3
22.5°	2783.1
25°	2582.2
27.5°	2341.1
30°	2060.0
32.5°	1744.3
35°	1411.6
37.5°	1101.6
40°	826.4
42.5°	608.2
45°	436.0
47.5°	298.5
50°	206.7
52.5°	143.5
55°	103.3
57.5°	74.6
60°	57.4
62.5°	40.2
65°	28.7
67.5°	23.0
70°	17.2
72.5°	11.5
75°	5.7
77.5°	5.7
80°	5.7
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)