

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: P573404

Luminaire Tested: **FLD4C-40-D010 FEU4C-X-90-50 F4X-M-X-H-BL85**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573404
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-40-D010 FEU4C-X-90-50 F4X-M-X-H-BL85
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 4LBMH TRIM
AND BOTTOM LENS, 0.187" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

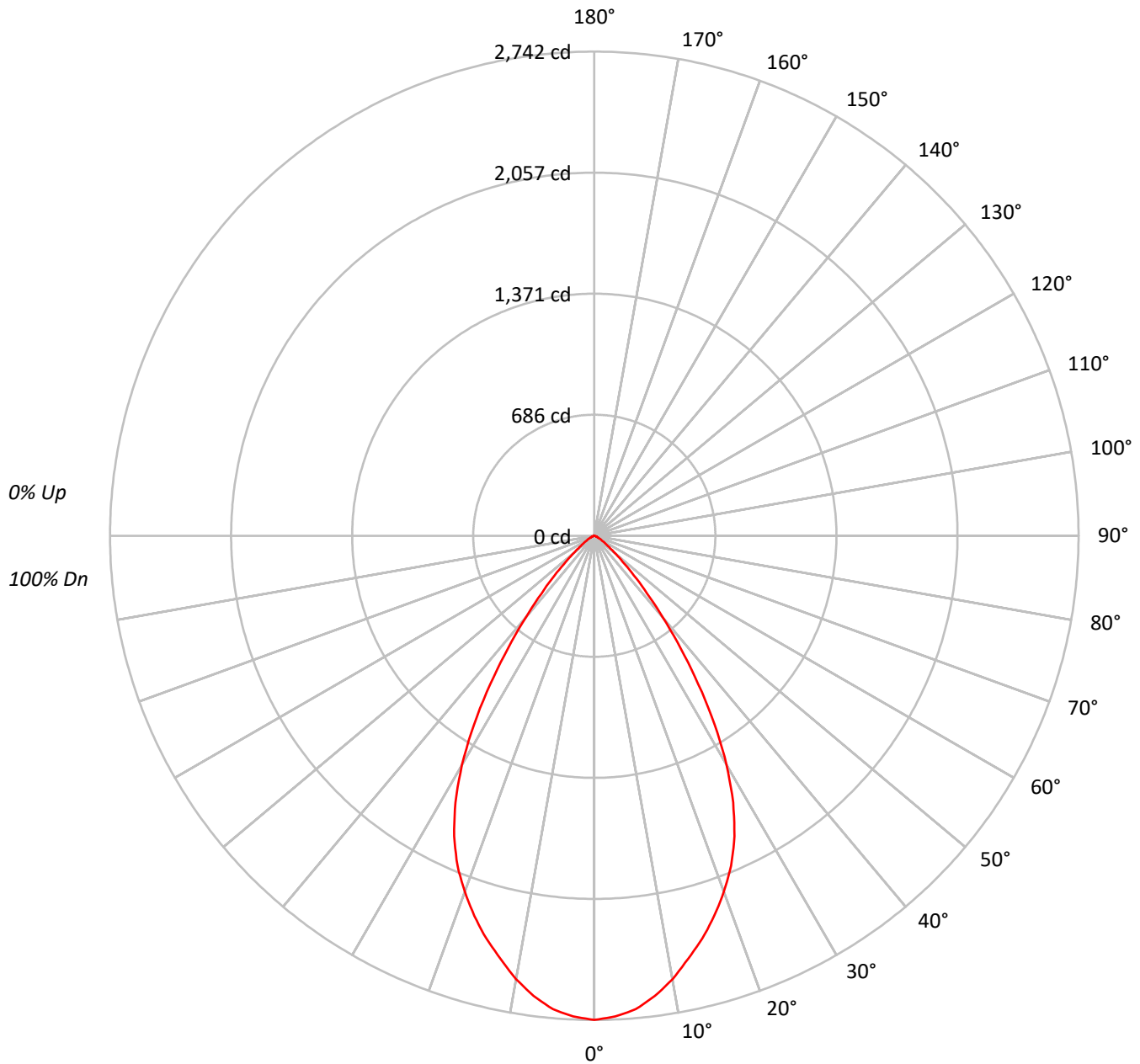
Lumens per Lamp: N/A
Luminaire Lumens: 2765.0 lumens
Efficiency: N/A
Efficacy: 58.8 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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
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°	336827
5°	331936
10°	318059
15°	300416
20°	280420
25°	254557
30°	212533
35°	153966
40°	96385
45°	55093
50°	28726
55°	16086
60°	10246
65°	6076
70°	4490
75°	1994
80°	2971
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.3	9.1
10°-20°	661.8	23.9
20°-30°	850.6	30.8
30°-40°	640.0	23.1
40°-50°	257.0	9.3
50°-60°	73.1	2.6
60°-70°	23.1	0.8
70°-80°	6.6	0.2
80°-90°	0.6	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°	1764.7	63.8
0°-40°	2404.6	87.0
0°-60°	2734.7	98.9
0°-90°	2765.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2765.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2742	
5°	2692	252
15°	2362	662
25°	1878	851
35°	1027	640
45°	317	257
55°	75	73
65°	21	23
75°	4	7
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2741.7
2.5°	2725.0
5°	2691.6
7.5°	2629.0
10°	2549.6
12.5°	2453.8
15°	2362.0
17.5°	2257.6
20°	2144.9
22.5°	2024.0
25°	1877.9
27.5°	1702.5
30°	1498.2
32.5°	1268.6
35°	1026.6
37.5°	801.2
40°	601.0
42.5°	442.3
45°	317.1
47.5°	217.1
50°	150.3
52.5°	104.4
55°	75.1
57.5°	54.3
60°	41.7
62.5°	29.2
65°	20.9
67.5°	16.7
70°	12.5
72.5°	8.3
75°	4.2
77.5°	4.2
80°	4.2
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)