

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: P572720

Luminaire Tested: **FLD4C-25-D010 FEU4C-X-90-27 F4X-M-X-H-BL85**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P572720
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-25-D010 FEU4C-X-90-27 F4X-M-X-H-BL85
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 4LBMH TRIM
AND BOTTOM LENS, 0.187" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

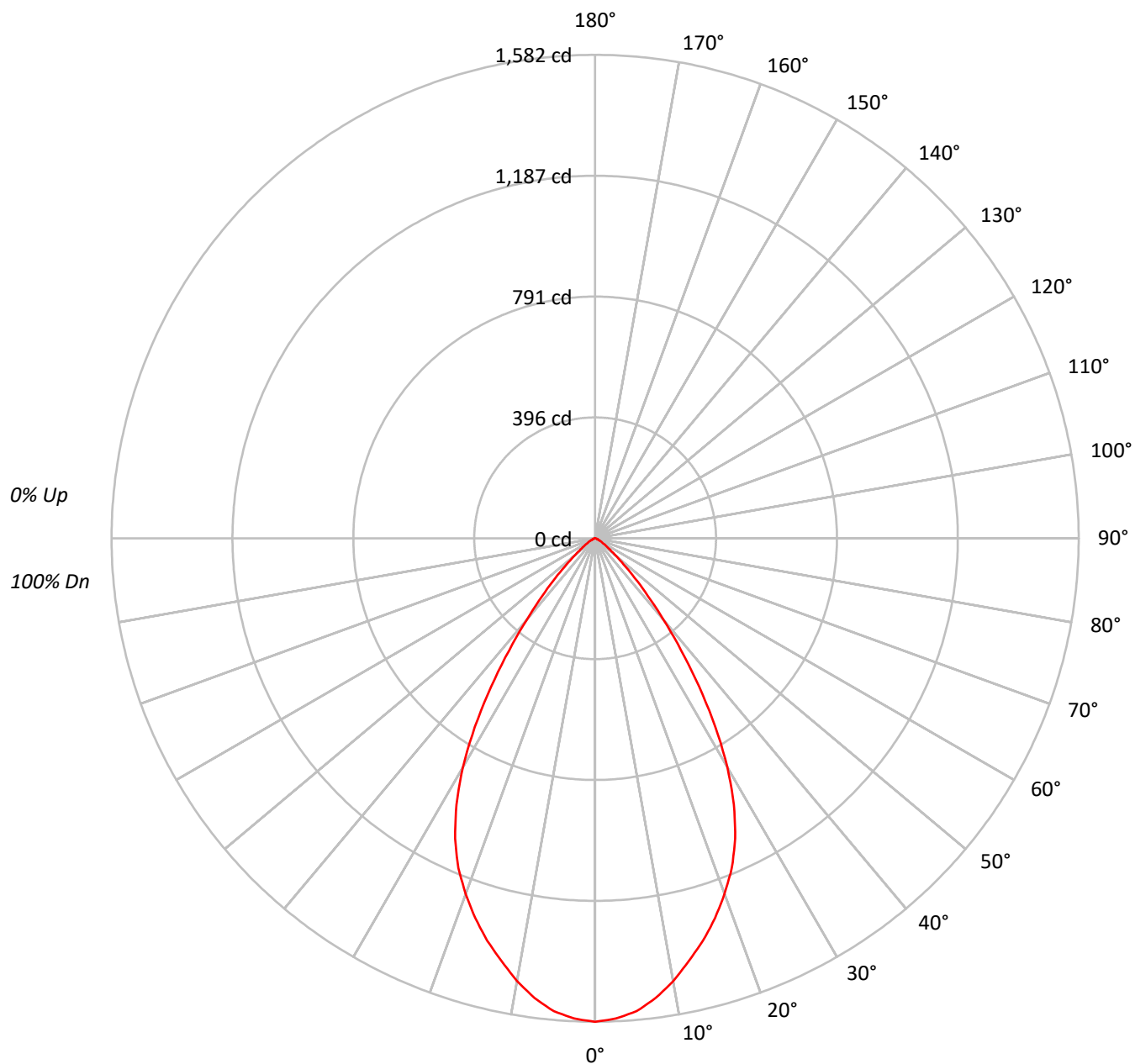
Lumens per Lamp: N/A
Luminaire Lumens: 1596.0 lumens
Efficiency: N/A
Efficacy: 50.7 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
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
RW	70	50	30	10		70	50	30	10		50	30	10			50	30	10			50
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111			106	106	106			102
1	113	110	108	105		111	108	106	104		104	102	100			100	99	97			97
2	107	102	98	94		105	100	96	93		97	94	91			94	91	89			91
3	101	94	89	85		99	93	88	84		90	86	83			88	84	82			86
4	96	88	82	77		94	86	81	77		84	80	76			82	78	75			80
5	90	82	75	71		89	81	75	70		79	74	70			77	73	69			75
6	86	76	70	65		84	75	69	65		74	68	64			72	68	64			71
7	81	71	65	60		80	70	64	60		69	64	60			68	63	59			67
8	77	67	60	56		75	66	60	56		65	59	56			64	59	55			63
9	73	63	56	52		72	62	56	52		61	56	52			60	55	52			59
10	69	59	53	49		68	59	53	49		58	52	49			57	52	48			56

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	194416
5°	191594
10°	183593
15°	173407
20°	161867
25°	146927
30°	122680
35°	88876
40°	55634
45°	31795
50°	16590
55°	9296
60°	5922
65°	3488
70°	2586
75°	1139
80°	1698
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.6	9.1
10°-20°	382.0	23.9
20°-30°	491.0	30.8
30°-40°	369.4	23.1
40°-50°	148.4	9.3
50°-60°	42.2	2.6
60°-70°	13.3	0.8
70°-80°	3.8	0.2
80°-90°	0.3	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°	1018.6	63.8
0°-40°	1388.0	87.0
0°-60°	1578.5	98.9
0°-90°	1596.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1596.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1582	
5°	1554	146
15°	1363	382
25°	1084	491
35°	593	369
45°	183	148
55°	43	42
65°	12	13
75°	2	4
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1582.5
2.5°	1572.9
5°	1553.6
7.5°	1517.5
10°	1471.7
12.5°	1416.4
15°	1363.4
17.5°	1303.1
20°	1238.1
22.5°	1168.3
25°	1083.9
27.5°	982.7
30°	864.8
32.5°	732.2
35°	592.6
37.5°	462.4
40°	346.9
42.5°	255.3
45°	183.0
47.5°	125.3
50°	86.8
52.5°	60.2
55°	43.4
57.5°	31.3
60°	24.1
62.5°	16.9
65°	12.0
67.5°	9.6
70°	7.2
72.5°	4.8
75°	2.4
77.5°	2.4
80°	2.4
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)