

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: P572254

Luminaire Tested: **FLD4C-10-D010 FEU4C-X-90-35 F4X-M-X-H-BL89AM**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P572254
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-10-D010 FEU4C-X-90-35 F4X-M-X-H-BL89AM
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 3500K, 90 CRI LEDS, 4LBMH TRIM
AND BOTTOM LENS, 0.125" OPAL POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

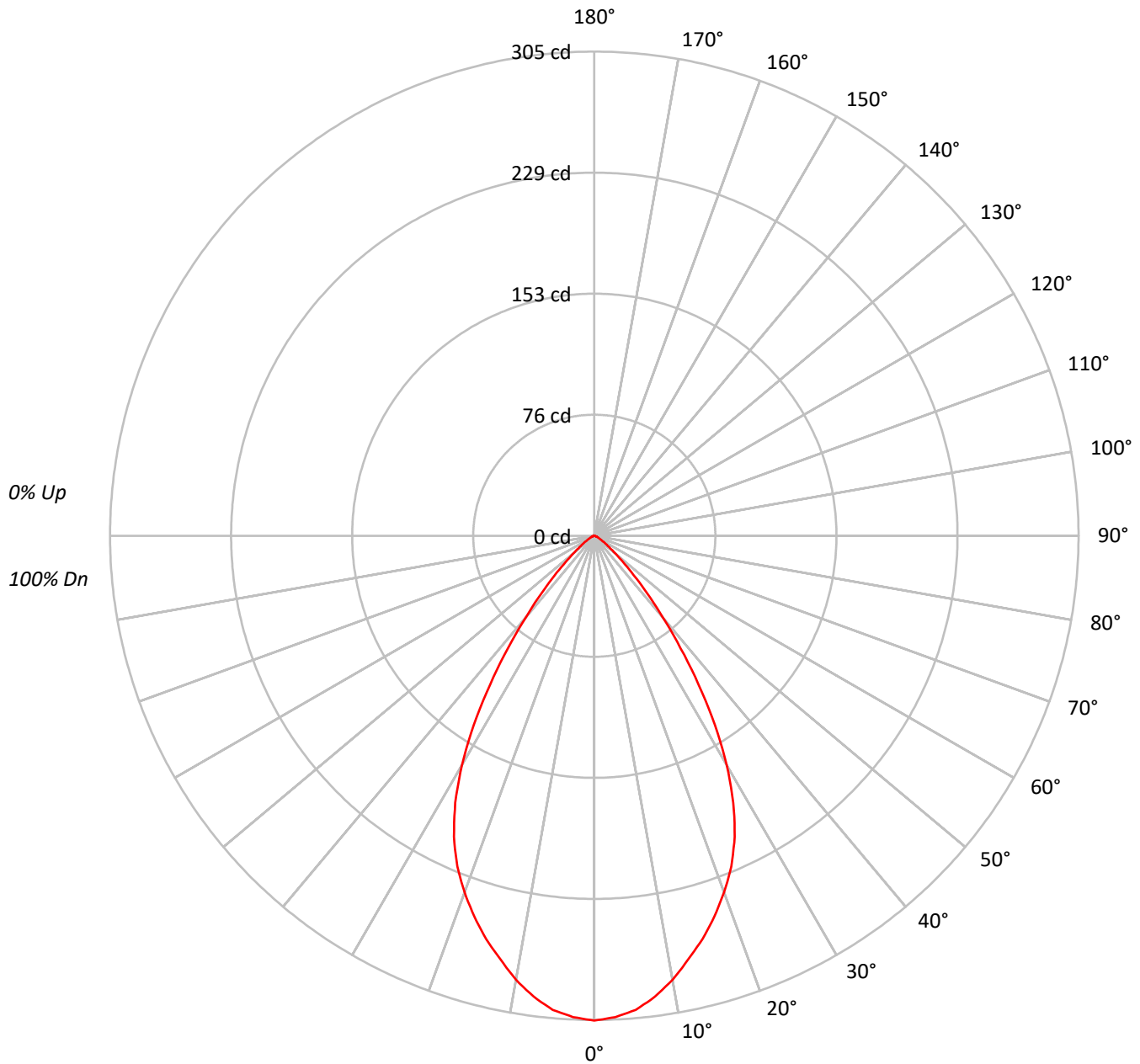
Lumens per Lamp: N/A
Luminaire Lumens: 308.0 lumens
Efficiency: N/A
Efficacy: 31.6 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.75
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			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°	37519
5°	36972
10°	35429
15°	33463
20°	31233
25°	28358
30°	23676
35°	17157
40°	10729
45°	6133
50°	3192
55°	1799
60°	1155
65°	669
70°	503
75°	237
80°	354
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.1	9.1
10°-20°	73.7	23.9
20°-30°	94.7	30.8
30°-40°	71.3	23.1
40°-50°	28.6	9.3
50°-60°	8.1	2.6
60°-70°	2.6	0.8
70°-80°	0.8	0.2
80°-90°	0.1	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°	196.6	63.8
0°-40°	267.8	87.0
0°-60°	304.6	98.9
0°-90°	308.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	308.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	305	
5°	300	28
15°	263	74
25°	209	95
35°	114	71
45°	35	29
55°	8	8
65°	2	3
75°	0	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	305.4
2.5°	303.5
5°	299.8
7.5°	292.8
10°	284.0
12.5°	273.3
15°	263.1
17.5°	251.5
20°	238.9
22.5°	225.5
25°	209.2
27.5°	189.6
30°	166.9
32.5°	141.3
35°	114.4
37.5°	89.2
40°	66.9
42.5°	49.3
45°	35.3
47.5°	24.2
50°	16.7
52.5°	11.6
55°	8.4
57.5°	6.0
60°	4.7
62.5°	3.3
65°	2.3
67.5°	1.9
70°	1.4
72.5°	0.9
75°	0.5
77.5°	0.5
80°	0.5
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)