

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: P572983

Luminaire Tested: **FLD4C-30-D010 FEU4C-X-90-35 F4X-N-X-H-BL84**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P572983
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P207666)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD4C-30-D010 FEU4C-X-90-35 F4X-N-X-H-BL84
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 3500K, 90 CRI LEDS, 4LBNH TRIM
AND BOTTOM LENS, 0.125" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

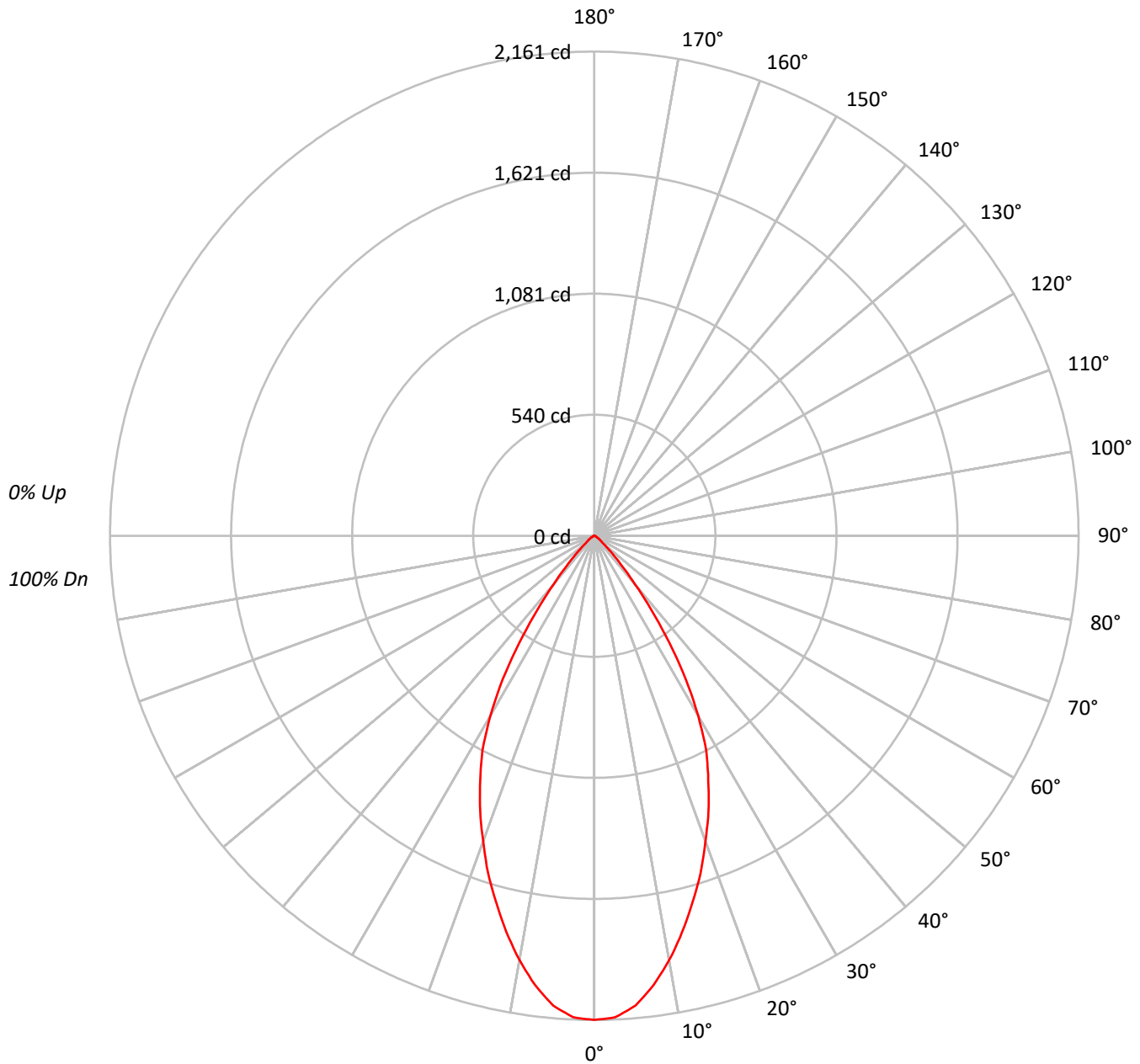
Lumens per Lamp: N/A
Luminaire Lumens: 1721.0 lumens
Efficiency: N/A
Efficacy: 54.5 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
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	111	108	106		111	109	106	104		105	103	101			101	99	98			97
2	108	103	99	96		106	101	98	94		98	95	92			95	93	90			92
3	102	96	91	87		100	95	90	86		92	88	85			90	86	84			87
4	97	90	84	80		95	89	83	79		86	82	78			84	81	78			83
5	92	84	78	74		91	83	78	73		81	76	73			80	75	72			78
6	88	79	73	69		86	78	72	68		77	72	68			75	71	67			74
7	83	74	68	64		82	73	68	64		72	67	63			71	66	63			70
8	79	70	64	60		78	69	64	60		68	63	59			67	63	59			66
9	76	66	60	56		74	65	60	56		65	59	56			64	59	56			63
10	72	62	57	53		71	62	56	53		61	56	53			60	56	52			60

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	265462
5°	259557
10°	239979
15°	215341
20°	189557
25°	163139
30°	131376
35°	87451
40°	45498
45°	20588
50°	8945
55°	5997
60°	3833
65°	2733
70°	2263
75°	1471
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.0	11.3
10°-20°	472.9	27.5
20°-30°	549.0	31.9
30°-40°	363.6	21.1
40°-50°	102.0	5.9
50°-60°	25.6	1.5
60°-70°	9.6	0.6
70°-80°	3.3	0.2
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°	1216.9	70.7
0°-40°	1580.5	91.8
0°-60°	1708.1	99.2
0°-90°	1721.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1721.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2161	
5°	2105	195
15°	1693	473
25°	1204	549
35°	583	364
45°	118	102
55°	28	26
65°	9	10
75°	3	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2160.8
2.5°	2151.4
5°	2104.7
7.5°	2023.5
10°	1923.7
12.5°	1811.5
15°	1693.1
17.5°	1577.7
20°	1449.9
22.5°	1331.4
25°	1203.5
27.5°	1082.0
30°	926.1
32.5°	760.8
35°	583.1
37.5°	417.8
40°	283.7
42.5°	183.9
45°	118.5
47.5°	71.8
50°	46.8
52.5°	34.3
55°	28.0
57.5°	21.9
60°	15.6
62.5°	12.5
65°	9.4
67.5°	6.3
70°	6.3
72.5°	3.1
75°	3.1
77.5°	3.1
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)