

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: P572731

Luminaire Tested: **FLD4C-25-D010 FEU4C-X-90-27 F4X-N-X-H-BL84**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P572731
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-25-D010 FEU4C-X-90-27 F4X-N-X-H-BL84
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 4LBNH TRIM
AND BOTTOM LENS, 0.125" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

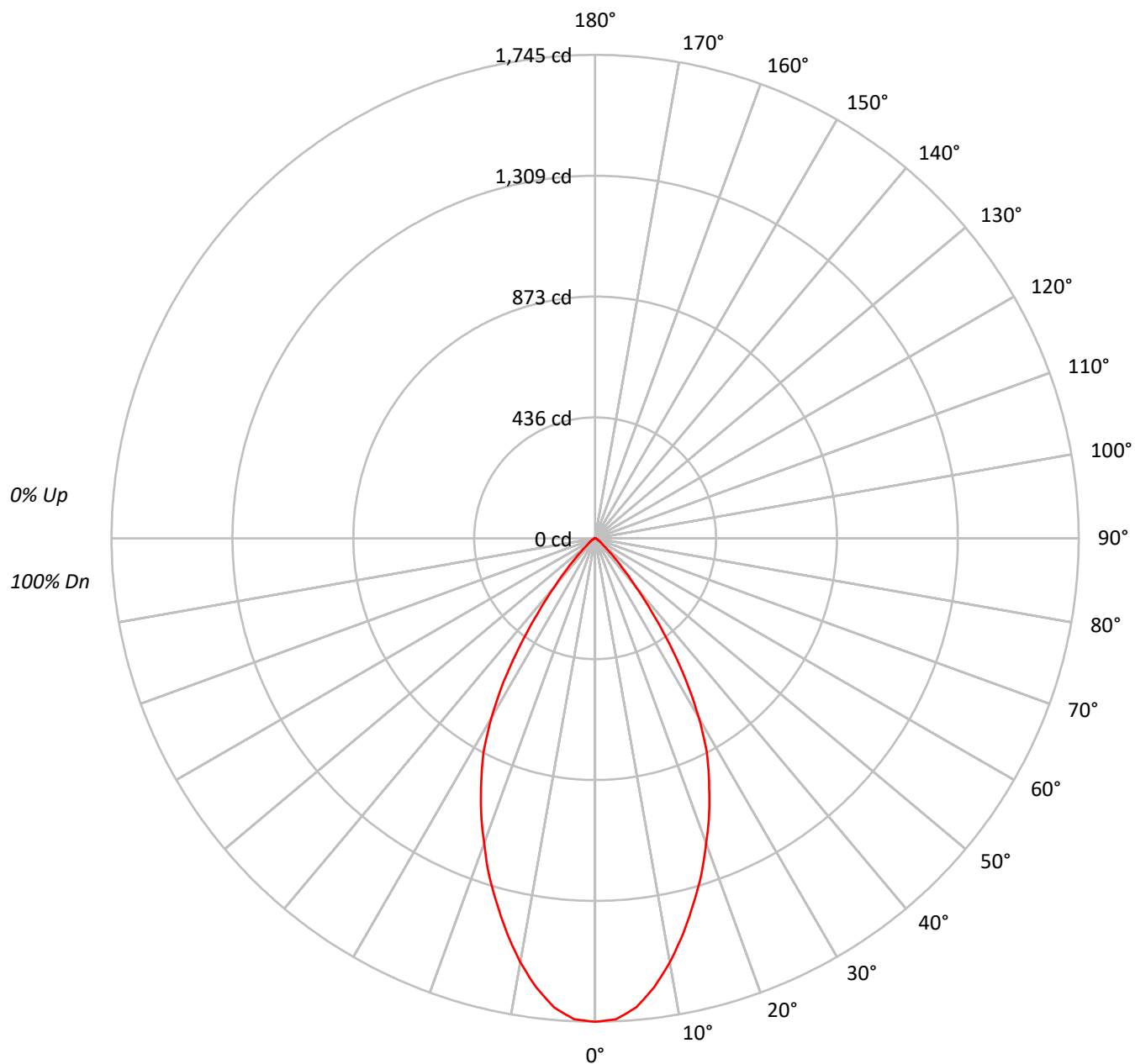
Lumens per Lamp: N/A
Luminaire Lumens: 1390.0 lumens
Efficiency: N/A
Efficacy: 44.1 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
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	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°	214404
5°	209636
10°	193822
15°	173916
20°	153094
25°	131758
30°	106096
35°	70639
40°	36742
45°	16627
50°	7225
55°	4841
60°	3096
65°	2209
70°	1832
75°	1187
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.5	11.3
10°-20°	381.9	27.5
20°-30°	443.4	31.9
30°-40°	293.7	21.1
40°-50°	82.4	5.9
50°-60°	20.7	1.5
60°-70°	7.8	0.6
70°-80°	2.6	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°	982.8	70.7
0°-40°	1276.5	91.8
0°-60°	1379.6	99.2
0°-90°	1390.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1390.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1745	
5°	1700	157
15°	1367	382
25°	972	443
35°	471	294
45°	96	82
55°	23	21
65°	8	8
75°	2	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1745.2
2.5°	1737.6
5°	1699.9
7.5°	1634.3
10°	1553.7
12.5°	1463.1
15°	1367.4
17.5°	1274.2
20°	1171.0
22.5°	1075.3
25°	972.0
27.5°	873.9
30°	747.9
32.5°	614.4
35°	471.0
37.5°	337.5
40°	229.1
42.5°	148.5
45°	95.7
47.5°	58.0
50°	37.8
52.5°	27.7
55°	22.6
57.5°	17.7
60°	12.6
62.5°	10.1
65°	7.6
67.5°	5.1
70°	5.1
72.5°	2.5
75°	2.5
77.5°	2.5
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)