

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: P573249

Luminaire Tested: **FLD4C-35-D010 FEU4C-X-90-50 F4X-W-X-H-BL86**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573249
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P206636)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD4C-35-D010 FEU4C-X-90-50 F4X-W-X-H-BL86
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 4LBWH TRIM
AND BOTTOM LENS, 0.250" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

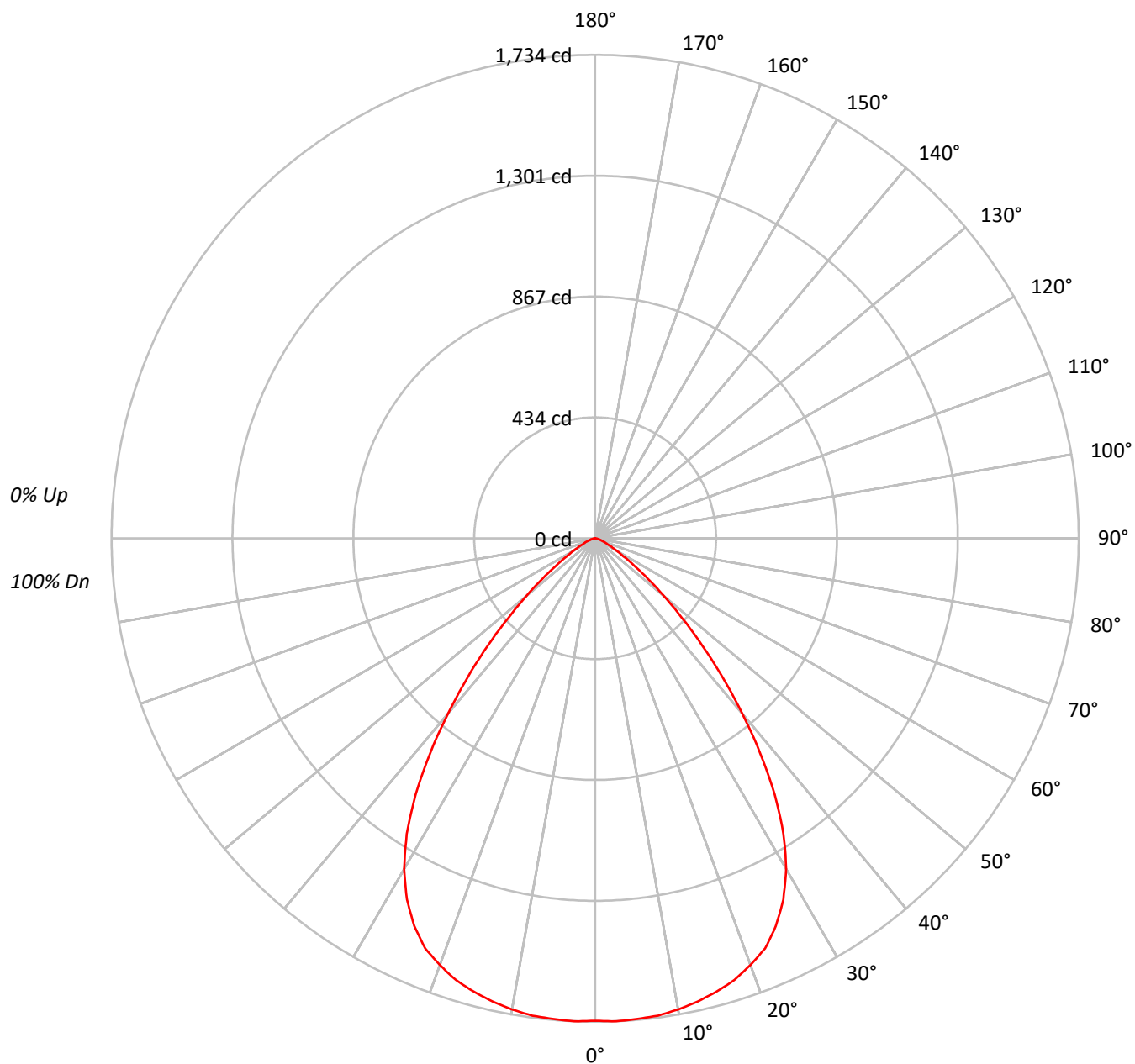
Lumens per Lamp: N/A
Luminaire Lumens: 2685.0 lumens
Efficiency: N/A
Efficacy: 66.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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			0
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111			106	106	106			100
1	112	109	106	104		110	107	104	102		103	101	99			99	97	96			91
2	105	100	95	91		103	98	93	90		95	91	88			91	88	86			82
3	99	91	85	80		97	90	84	80		87	82	78			84	80	77			74
4	92	83	77	72		90	82	76	71		80	75	70			78	73	70			67
5	87	77	70	65		85	76	69	64		74	68	64			72	67	63			61
6	81	71	64	58		80	70	63	58		68	62	58			67	61	57			55
7	76	65	58	53		75	65	58	53		63	57	53			62	56	52			50
8	72	60	53	49		70	60	53	49		59	53	48			58	52	48			46
9	68	56	49	45		66	56	49	45		55	49	44			54	48	44			43
10	64	52	46	41		63	52	46	41		51	45	41			50	45	41			39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	212610
5°	213422
10°	214081
15°	214082
20°	212907
25°	207926
30°	194333
35°	168289
40°	131458
45°	94324
50°	61275
55°	36669
60°	21475
65°	13779
70°	9160
75°	6930
80°	5165
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.8	6.1
10°-20°	474.9	17.7
20°-30°	700.8	26.1
30°-40°	691.5	25.8
40°-50°	423.2	15.8
50°-60°	162.2	6.0
60°-70°	50.7	1.9
70°-80°	14.9	0.6
80°-90°	2.0	0.1
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°	1340.5	49.9
0°-40°	2032.0	75.7
0°-60°	2617.4	97.5
0°-90°	2685.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2685.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1731	
5°	1731	165
15°	1683	475
25°	1534	701
35°	1122	692
45°	543	423
55°	171	162
65°	47	51
75°	15	15
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1730.6
2.5°	1734.3
5°	1730.6
7.5°	1727.0
10°	1716.1
12.5°	1701.5
15°	1683.2
17.5°	1661.4
20°	1628.5
22.5°	1592.2
25°	1533.9
27.5°	1460.9
30°	1369.9
32.5°	1257.0
35°	1122.1
37.5°	972.7
40°	819.7
42.5°	677.7
45°	542.9
47.5°	422.5
50°	320.6
52.5°	236.9
55°	171.2
57.5°	120.2
60°	87.4
62.5°	65.6
65°	47.4
67.5°	36.5
70°	25.5
72.5°	18.2
75°	14.6
77.5°	7.3
80°	7.3
82.5°	3.6
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)