

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: P572240

Luminaire Tested: **FLD4C-10-D010 FEU4C-X-90-30 F4X-W-X-H-BL85**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P572240
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-10-D010 FEU4C-X-90-30 F4X-W-X-H-BL85
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 3000K, 90 CRI LEDS, 4LBWH TRIM
AND BOTTOM LENS, 0.187" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

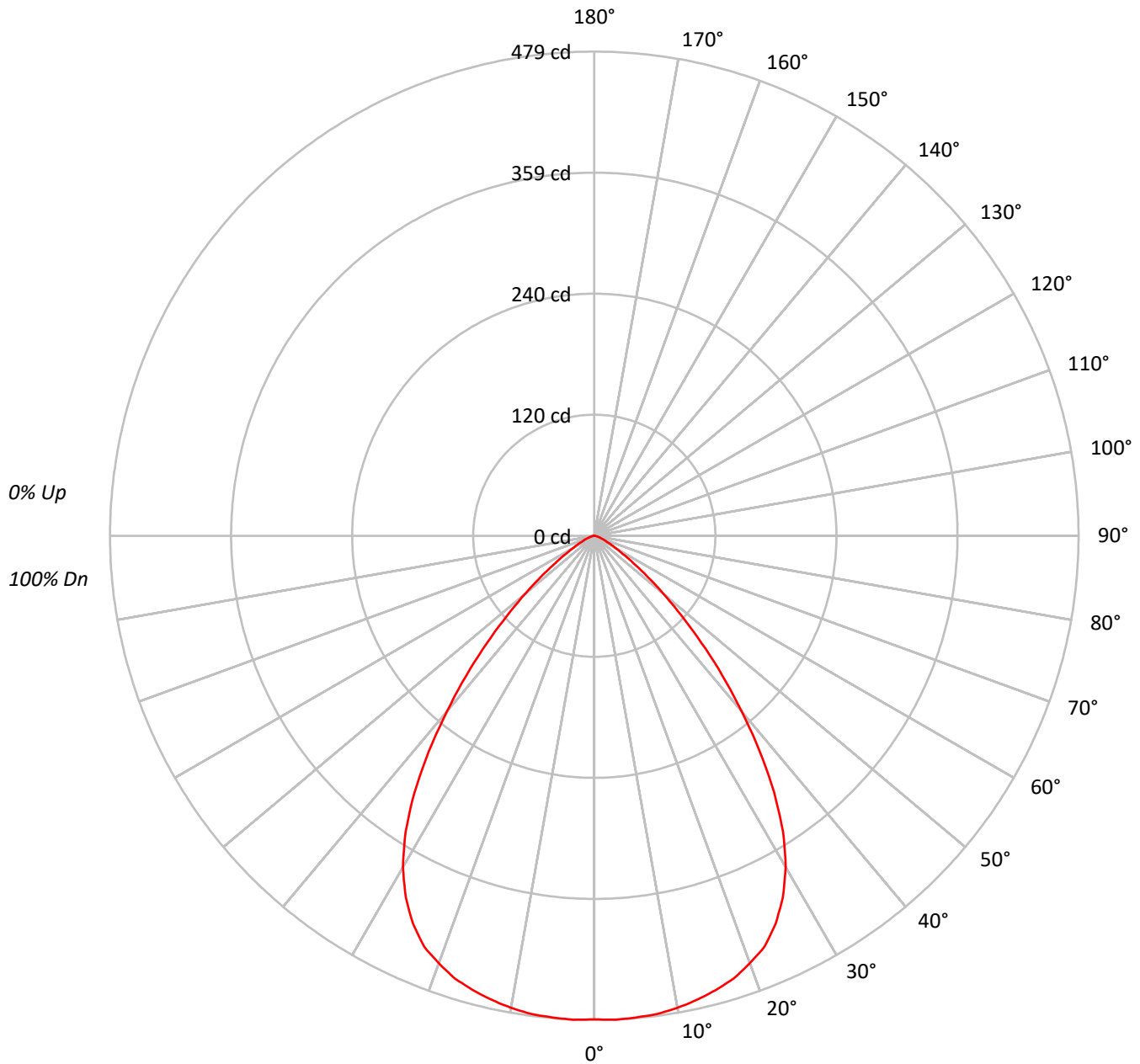
Lumens per Lamp: N/A
Luminaire Lumens: 742.0 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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					0
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°	58761
5°	58985
10°	59156
15°	59168
20°	58832
25°	57461
30°	53708
35°	46508
40°	36325
45°	26061
50°	16934
55°	10131
60°	5922
65°	3808
70°	2550
75°	1899
80°	1415
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.5	6.1
10°-20°	131.2	17.7
20°-30°	193.7	26.1
30°-40°	191.1	25.8
40°-50°	117.0	15.8
50°-60°	44.8	6.0
60°-70°	14.0	1.9
70°-80°	4.1	0.6
80°-90°	0.5	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°	370.4	49.9
0°-40°	561.5	75.7
0°-60°	723.3	97.5
0°-90°	742.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	742.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	478	
5°	478	46
15°	465	131
25°	424	194
35°	310	191
45°	150	117
55°	47	45
65°	13	14
75°	4	4
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	478.3
2.5°	479.3
5°	478.3
7.5°	477.3
10°	474.2
12.5°	470.2
15°	465.2
17.5°	459.1
20°	450.0
22.5°	440.0
25°	423.9
27.5°	403.7
30°	378.6
32.5°	347.4
35°	310.1
37.5°	268.8
40°	226.5
42.5°	187.3
45°	150.0
47.5°	116.8
50°	88.6
52.5°	65.5
55°	47.3
57.5°	33.2
60°	24.1
62.5°	18.1
65°	13.1
67.5°	10.1
70°	7.1
72.5°	5.0
75°	4.0
77.5°	2.0
80°	2.0
82.5°	1.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)