

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: P573043

Luminaire Tested: **FLD4C-30-D010 FEU4C-X-90-50 F4X-M-X-H-BL84**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573043
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-30-D010 FEU4C-X-90-50 F4X-M-X-H-BL84
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 4LBMH TRIM
AND BOTTOM LENS, 0.125" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

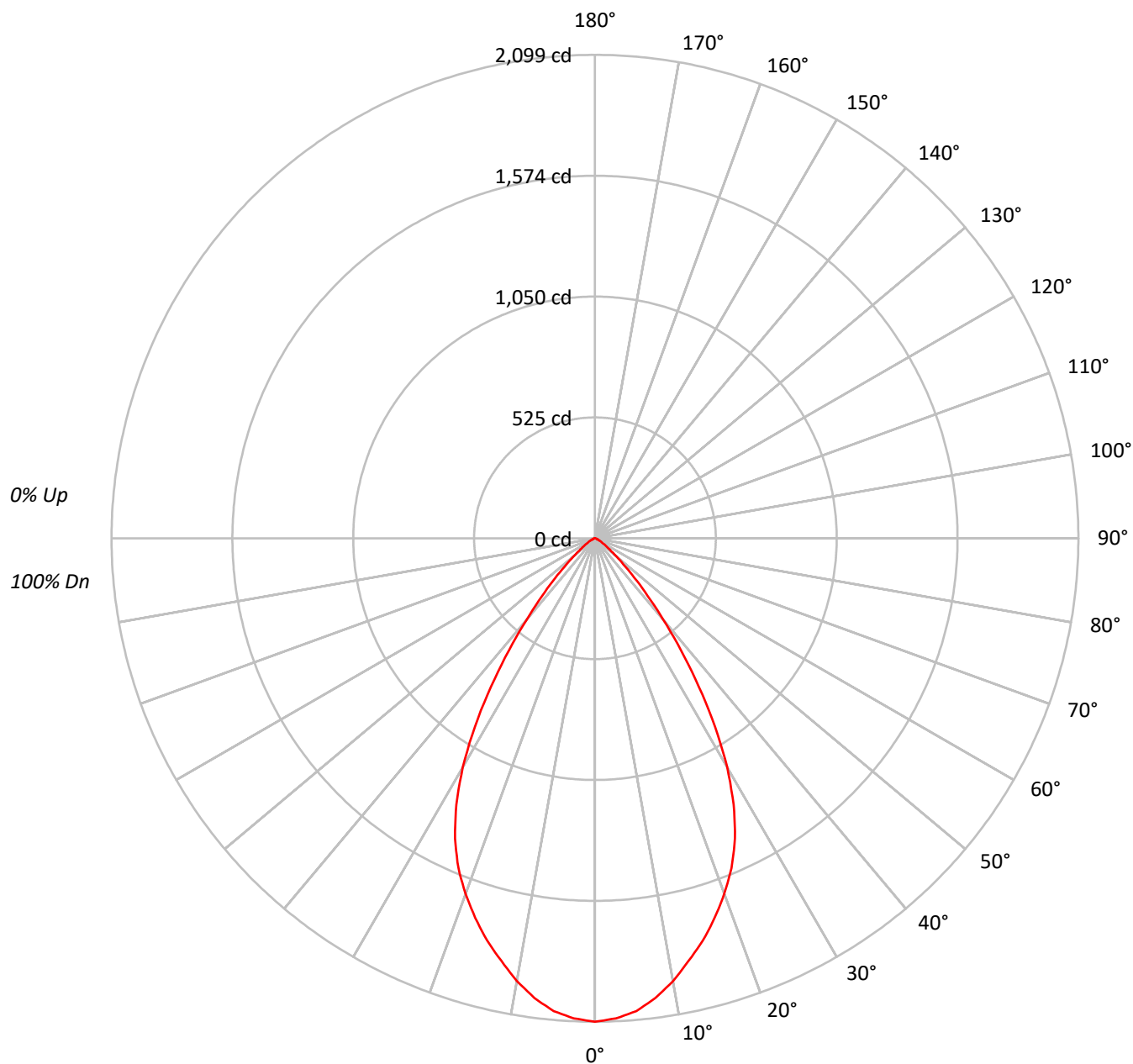
Lumens per Lamp: N/A
Luminaire Lumens: 2117.0 lumens
Efficiency: N/A
Efficacy: 67.0 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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			0
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111			106	106	106			100
1	113	110	108	105		111	108	106	104		104	102	100			100	99	97			93
2	107	102	98	94		105	100	96	93		97	94	91			94	91	89			85
3	101	94	89	85		99	93	88	84		90	86	83			88	84	82			79
4	96	88	82	77		94	86	81	77		84	80	76			82	78	75			73
5	90	82	75	71		89	81	75	70		79	74	70			77	73	69			67
6	86	76	70	65		84	75	69	65		74	68	64			72	68	64			62
7	81	71	65	60		80	70	64	60		69	64	60			68	63	59			58
8	77	67	60	56		75	66	60	56		65	59	56			64	59	55			54
9	73	63	56	52		72	62	56	52		61	56	52			60	55	52			50
10	69	59	53	49		68	59	53	49		58	52	49			57	52	48			47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	257882
5°	254144
10°	243522
15°	230005
20°	214698
25°	194899
30°	162726
35°	117881
40°	73788
45°	42184
50°	21999
55°	12316
60°	7863
65°	4651
70°	3448
75°	1519
80°	2264
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.2	9.1
10°-20°	506.7	23.9
20°-30°	651.2	30.8
30°-40°	490.0	23.1
40°-50°	196.8	9.3
50°-60°	56.0	2.6
60°-70°	17.7	0.8
70°-80°	5.1	0.2
80°-90°	0.4	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°	1351.1	63.8
0°-40°	1841.1	87.0
0°-60°	2093.8	98.9
0°-90°	2117.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2117.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2099	
5°	2061	193
15°	1808	507
25°	1438	651
35°	786	490
45°	243	197
55°	58	56
65°	16	18
75°	3	5
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2099.1
2.5°	2086.4
5°	2060.8
7.5°	2012.8
10°	1952.1
12.5°	1878.7
15°	1808.4
17.5°	1728.5
20°	1642.2
22.5°	1549.7
25°	1437.8
27.5°	1303.5
30°	1147.1
32.5°	971.3
35°	786.0
37.5°	613.4
40°	460.1
42.5°	338.7
45°	242.8
47.5°	166.2
50°	115.1
52.5°	79.9
55°	57.5
57.5°	41.6
60°	32.0
62.5°	22.4
65°	16.0
67.5°	12.8
70°	9.6
72.5°	6.4
75°	3.2
77.5°	3.2
80°	3.2
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)