

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: P571676

Luminaire Tested: **FLD4C-02-D010 FEU4C-X-90-30 F4X-M-X-H-BL85**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P571676
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-02-D010 FEU4C-X-90-30 F4X-M-X-H-BL85
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 3000K, 90 CRI LEDS, 4LBMH TRIM
AND BOTTOM LENS, 0.187" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

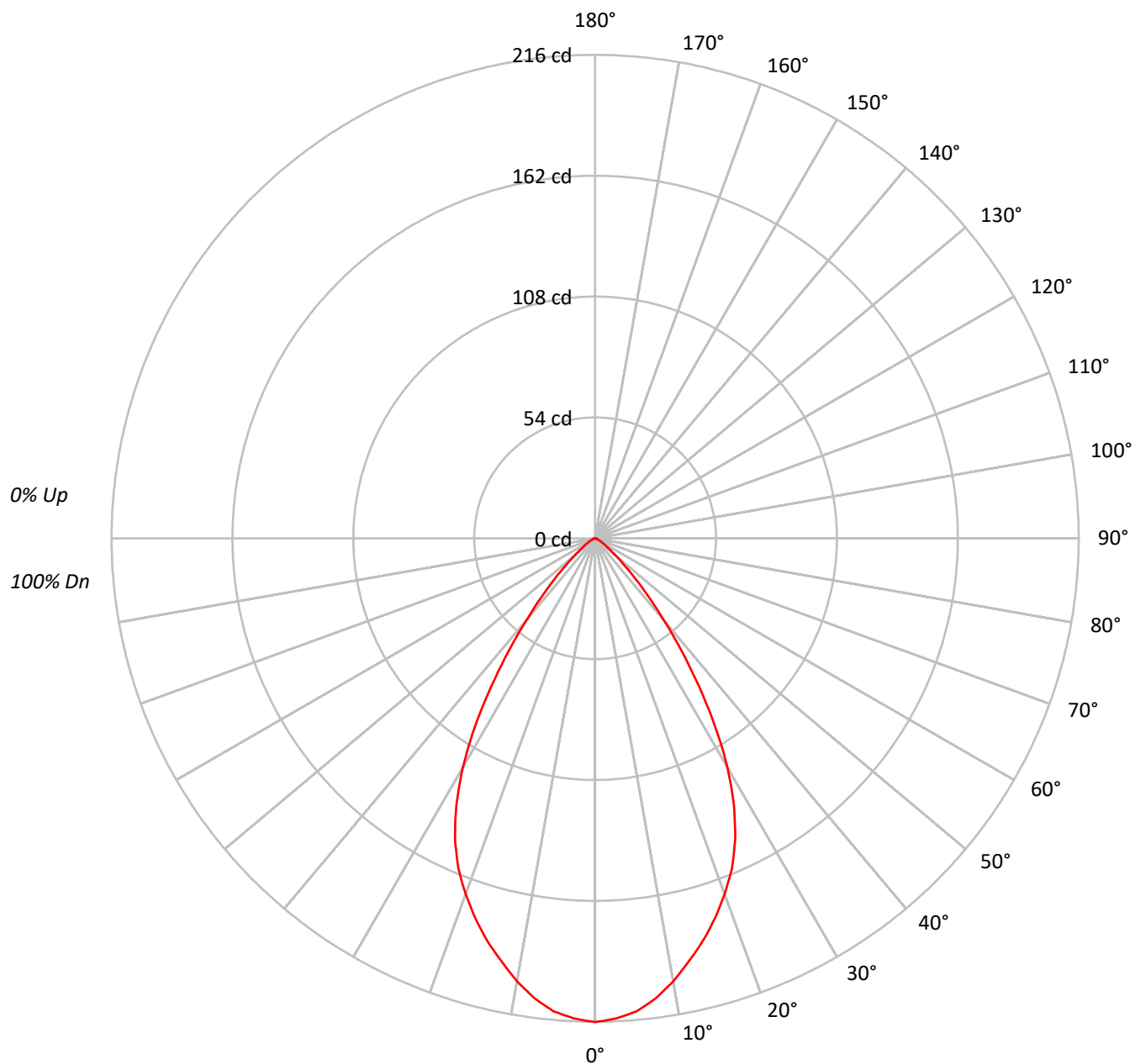
Lumens per Lamp: N/A
Luminaire Lumens: 218.0 lumens
Efficiency: N/A
Efficacy: 62.3 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 3.5
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°	26561
5°	26169
10°	25074
15°	23682
20°	22108
25°	20076
30°	16754
35°	12133
40°	7602
45°	4344
50°	2255
55°	1264
60°	811
65°	465
70°	359
75°	142
80°	212
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.9	9.1
10°-20°	52.2	23.9
20°-30°	67.1	30.8
30°-40°	50.5	23.1
40°-50°	20.3	9.3
50°-60°	5.7	2.6
60°-70°	1.8	0.8
70°-80°	0.5	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°	139.1	63.8
0°-40°	189.6	87.0
0°-60°	215.6	98.9
0°-90°	218.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	218.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	216	
5°	212	20
15°	186	52
25°	148	67
35°	81	50
45°	25	20
55°	6	6
65°	2	2
75°	0	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	216.2
2.5°	214.8
5°	212.2
7.5°	207.3
10°	201.0
12.5°	193.5
15°	186.2
17.5°	178.0
20°	169.1
22.5°	159.6
25°	148.1
27.5°	134.2
30°	118.1
32.5°	100.0
35°	80.9
37.5°	63.2
40°	47.4
42.5°	34.9
45°	25.0
47.5°	17.1
50°	11.8
52.5°	8.2
55°	5.9
57.5°	4.3
60°	3.3
62.5°	2.3
65°	1.6
67.5°	1.3
70°	1.0
72.5°	0.7
75°	0.3
77.5°	0.3
80°	0.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)