

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: P573035

Luminaire Tested: **FLD4C-30-D010 FEU4C-X-90-40 F4X-W-X-H-BL89BV**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573035
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-30-D010 FEU4C-X-90-40 F4X-W-X-H-BL89BV
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 4LBWH TRIM
AND BOTTOM LENS, 0.125" CLEAR ACRYLIC

Light Source: -
Ballast/Driver: -

Summary

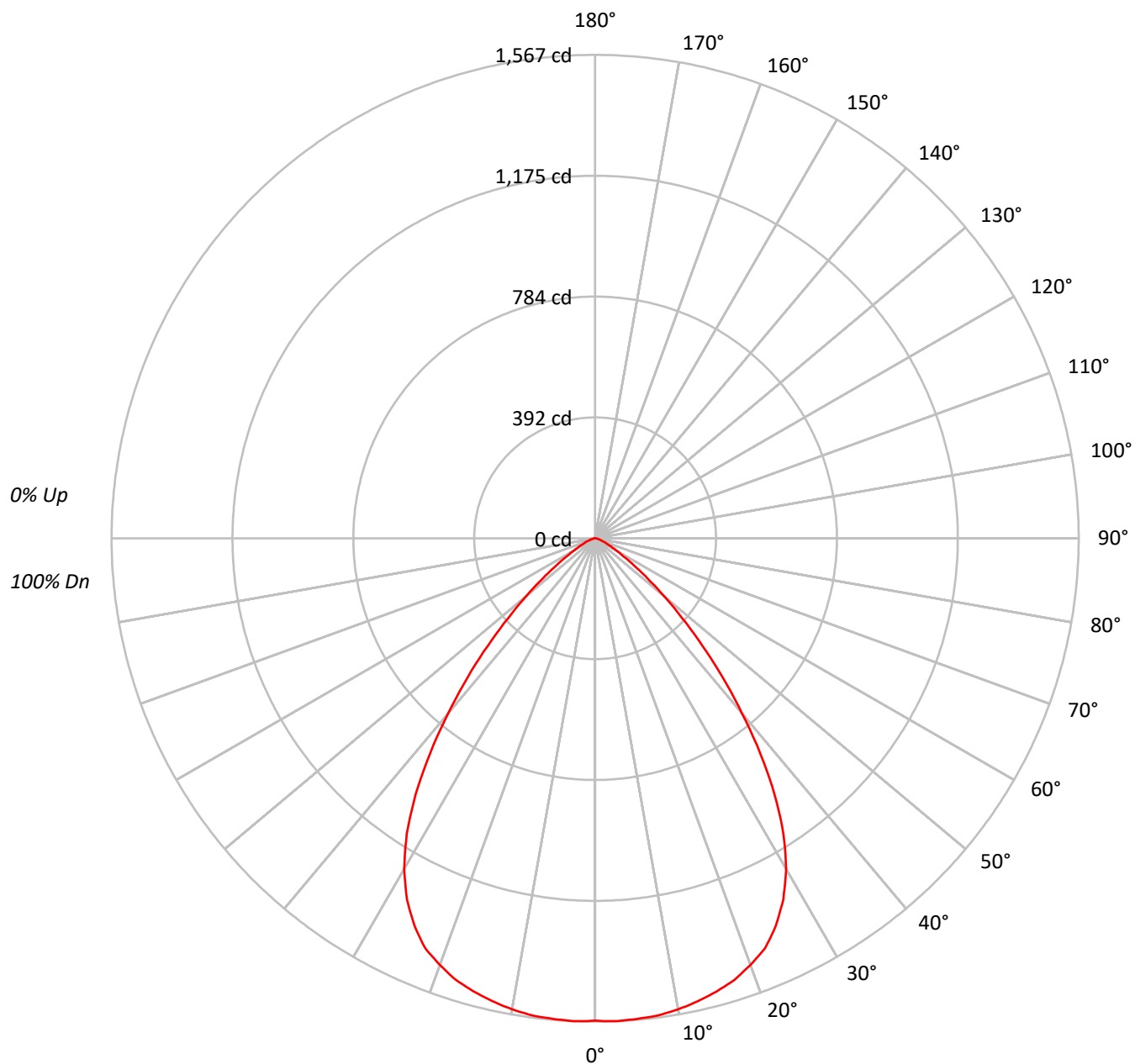
Lumens per Lamp: N/A
Luminaire Lumens: 2426.0 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
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	112	109	106	104	110	107	104	102	103	101	99		99	97	96		96
2	105	100	95	91	103	98	93	90	95	91	88		91	88	86		89
3	99	91	85	80	97	90	84	80	87	82	78		84	80	77		82
4	92	83	77	72	90	82	76	71	80	75	70		78	73	70		76
5	87	77	70	65	85	76	69	64	74	68	64		72	67	63		70
6	81	71	64	58	80	70	63	58	68	62	58		67	61	57		65
7	76	65	58	53	75	65	58	53	63	57	53		62	56	52		61
8	72	60	53	49	70	60	53	49	59	53	48		58	52	48		57
9	68	56	49	45	66	56	49	45	55	49	44		54	48	44		53
10	64	52	46	41	63	52	46	41	51	45	41		50	45	41		49

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	192106
5°	192840
10°	193423
15°	193439
20°	192368
25°	187864
30°	175593
35°	152061
40°	118789
45°	85220
50°	55369
55°	33135
60°	19386
65°	12442
70°	8298
75°	6266
80°	4669
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.9	6.1
10°-20°	429.1	17.7
20°-30°	633.2	26.1
30°-40°	624.8	25.8
40°-50°	382.4	15.8
50°-60°	146.6	6.0
60°-70°	45.8	1.9
70°-80°	13.5	0.6
80°-90°	1.8	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°	1211.1	49.9
0°-40°	1836.0	75.7
0°-60°	2364.9	97.5
0°-90°	2426.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2426.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1564	
5°	1564	149
15°	1521	429
25°	1386	633
35°	1014	625
45°	490	382
55°	155	147
65°	43	46
75°	13	13
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1563.7
2.5°	1567.0
5°	1563.7
7.5°	1560.4
10°	1550.5
12.5°	1537.3
15°	1520.9
17.5°	1501.1
20°	1471.4
22.5°	1438.6
25°	1385.9
27.5°	1320.0
30°	1237.8
32.5°	1135.8
35°	1013.9
37.5°	878.9
40°	740.7
42.5°	612.3
45°	490.5
47.5°	381.8
50°	289.7
52.5°	214.0
55°	154.7
57.5°	108.6
60°	78.9
62.5°	59.3
65°	42.8
67.5°	33.0
70°	23.1
72.5°	16.5
75°	13.2
77.5°	6.6
80°	6.6
82.5°	3.3
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)