

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: P573536

Luminaire Tested: **FLD4C-45-D010 FEU4C-X-90-35 F4X-W-X-H-BL85**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573536
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-45-D010 FEU4C-X-90-35 F4X-W-X-H-BL85
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 3500K, 90 CRI LEDS, 4LBWH TRIM
AND BOTTOM LENS, 0.187" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

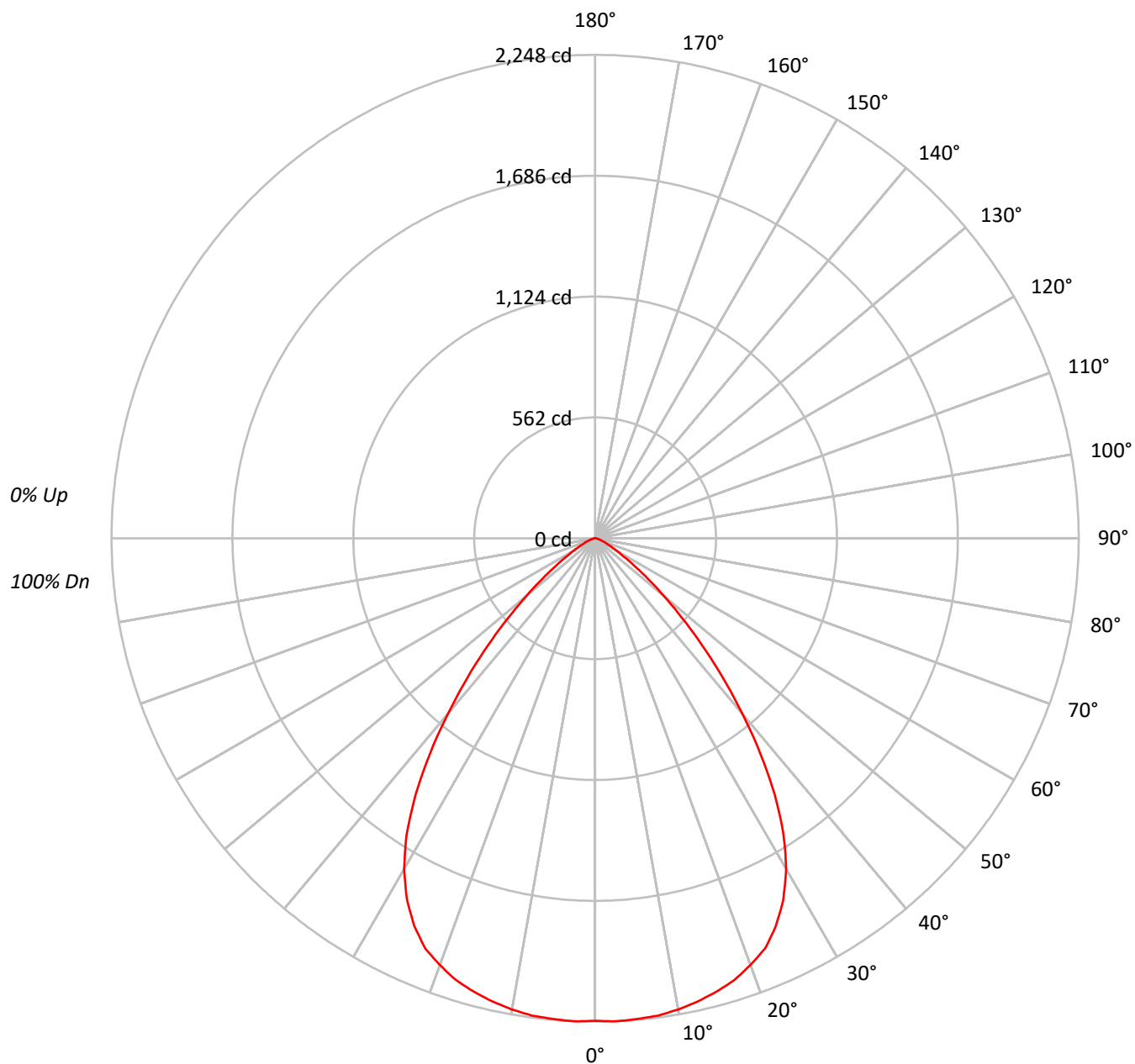
Lumens per Lamp: N/A
Luminaire Lumens: 3481.0 lumens
Efficiency: N/A
Efficacy: 70.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
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		50	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	112	109	106	104		110	107	104	102		103	101	99		99	97	96		96	94	93
2	105	100	95	91		103	98	93	90		95	91	88		91	88	86		89	86	84
3	99	91	85	80		97	90	84	80		87	82	78		84	80	77		82	79	76
4	92	83	77	72		90	82	76	71		80	75	70		78	73	70		76	72	69
5	87	77	70	65		85	76	69	64		74	68	64		72	67	63		70	66	62
6	81	71	64	58		80	70	63	58		68	62	58		67	61	57		65	61	57
7	76	65	58	53		75	65	58	53		63	57	53		62	56	52		61	56	52
8	72	60	53	49		70	60	53	49		59	53	48		58	52	48		57	52	48
9	68	56	49	45		66	56	49	45		55	49	44		54	48	44		53	48	44
10	64	52	46	41		63	52	46	41		51	45	41		50	45	41		49	44	41

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	275646
5°	276699
10°	277541
15°	277548
20°	276027
25°	269562
30°	251956
35°	218186
40°	170445
45°	122279
50°	79432
55°	47550
60°	27839
65°	17878
70°	11890
75°	8971
80°	6721
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.7	6.1
10°-20°	615.7	17.7
20°-30°	908.5	26.1
30°-40°	896.6	25.8
40°-50°	548.6	15.8
50°-60°	210.3	6.0
60°-70°	65.8	1.9
70°-80°	19.3	0.6
80°-90°	2.6	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°	1737.8	49.9
0°-40°	2634.4	75.7
0°-60°	3393.4	97.5
0°-90°	3481.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3481.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2244	
5°	2244	214
15°	2182	616
25°	1989	909
35°	1455	897
45°	704	549
55°	222	210
65°	62	66
75°	19	19
85°	0	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2243.7
2.5°	2248.4
5°	2243.7
7.5°	2239.0
10°	2224.8
12.5°	2205.9
15°	2182.2
17.5°	2153.9
20°	2111.3
22.5°	2064.3
25°	1988.6
27.5°	1894.0
30°	1776.1
32.5°	1629.7
35°	1454.8
37.5°	1261.1
40°	1062.8
42.5°	878.6
45°	703.8
47.5°	547.8
50°	415.6
52.5°	307.1
55°	222.0
57.5°	155.8
60°	113.3
62.5°	85.1
65°	61.5
67.5°	47.3
70°	33.1
72.5°	23.6
75°	18.9
77.5°	9.5
80°	9.5
82.5°	4.7
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)