

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: P573503

Luminaire Tested: **FLD4C-45-D010 FEU4C-X-90-30 F4X-W-X-H-BL89BV**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573503
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-90-30 F4X-W-X-H-BL89BV
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 3000K, 90 CRI LEDS, 4LBWH TRIM
AND BOTTOM LENS, 0.125" CLEAR ACRYLIC

Light Source: -
Ballast/Driver: -

Summary

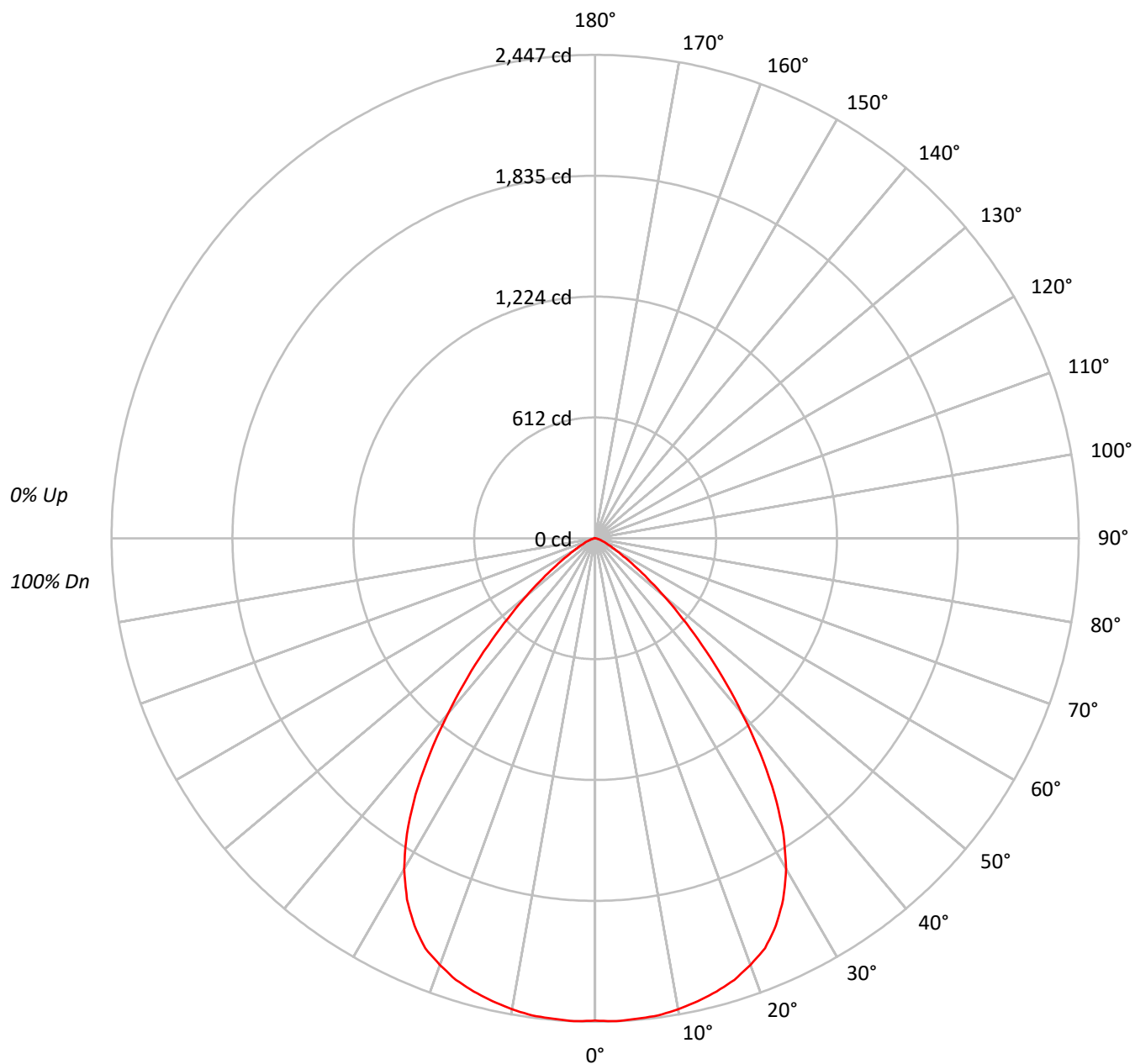
Lumens per Lamp: N/A
Luminaire Lumens: 3788.0 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
Input Voltage (V): NR
Input Current (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				0			
RW	70	50	30	10	70	50	30	10	50	30	10	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	102	102	102	100						
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91						
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82						
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74						
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67						
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61						
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	55						
7	76	65	58	53	75	65	58	53	63	57	53	62	56	52	61	56	52	50						
8	72	60	53	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46						
9	68	56	49	45	66	56	49	45	55	49	44	54	48	44	53	48	44	43						
10	64	52	46	41	63	52	46	41	51	45	41	50	45	41	49	44	41	39						

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	299959
5°	301105
10°	302017
15°	302032
20°	300370
25°	293338
30°	274171
35°	237428
40°	185472
45°	133068
50°	86446
55°	51748
60°	30271
65°	19448
70°	12931
75°	9778
80°	7287
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.5	6.1
10°-20°	670.0	17.7
20°-30°	988.6	26.1
30°-40°	975.6	25.8
40°-50°	597.0	15.8
50°-60°	228.9	6.0
60°-70°	71.6	1.9
70°-80°	21.0	0.6
80°-90°	2.8	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°	1891.1	49.9
0°-40°	2866.7	75.7
0°-60°	3692.7	97.5
0°-90°	3788.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3788.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2442	
5°	2442	233
15°	2375	670
25°	2164	989
35°	1583	976
45°	766	597
55°	242	229
65°	67	72
75°	21	21
85°	0	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2441.6
2.5°	2446.7
5°	2441.6
7.5°	2436.4
10°	2421.0
12.5°	2400.4
15°	2374.7
17.5°	2343.8
20°	2297.5
22.5°	2246.3
25°	2164.0
27.5°	2061.1
30°	1932.7
32.5°	1773.4
35°	1583.1
37.5°	1372.3
40°	1156.5
42.5°	956.1
45°	765.9
47.5°	596.1
50°	452.3
52.5°	334.2
55°	241.6
57.5°	169.6
60°	123.2
62.5°	92.6
65°	66.9
67.5°	51.5
70°	36.0
72.5°	25.7
75°	20.6
77.5°	10.3
80°	10.3
82.5°	5.1
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)