

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: P573527

Luminaire Tested: **FLD4C-45-D010 FEU4C-X-90-35 F4X-N-X-H-BL89BV**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573527
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P207666)
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-N-X-H-BL89BV
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 3500K, 90 CRI LEDS, 4LBNH TRIM
AND BOTTOM LENS, 0.125" CLEAR ACRYLIC

Light Source: -
Ballast/Driver: -

Summary

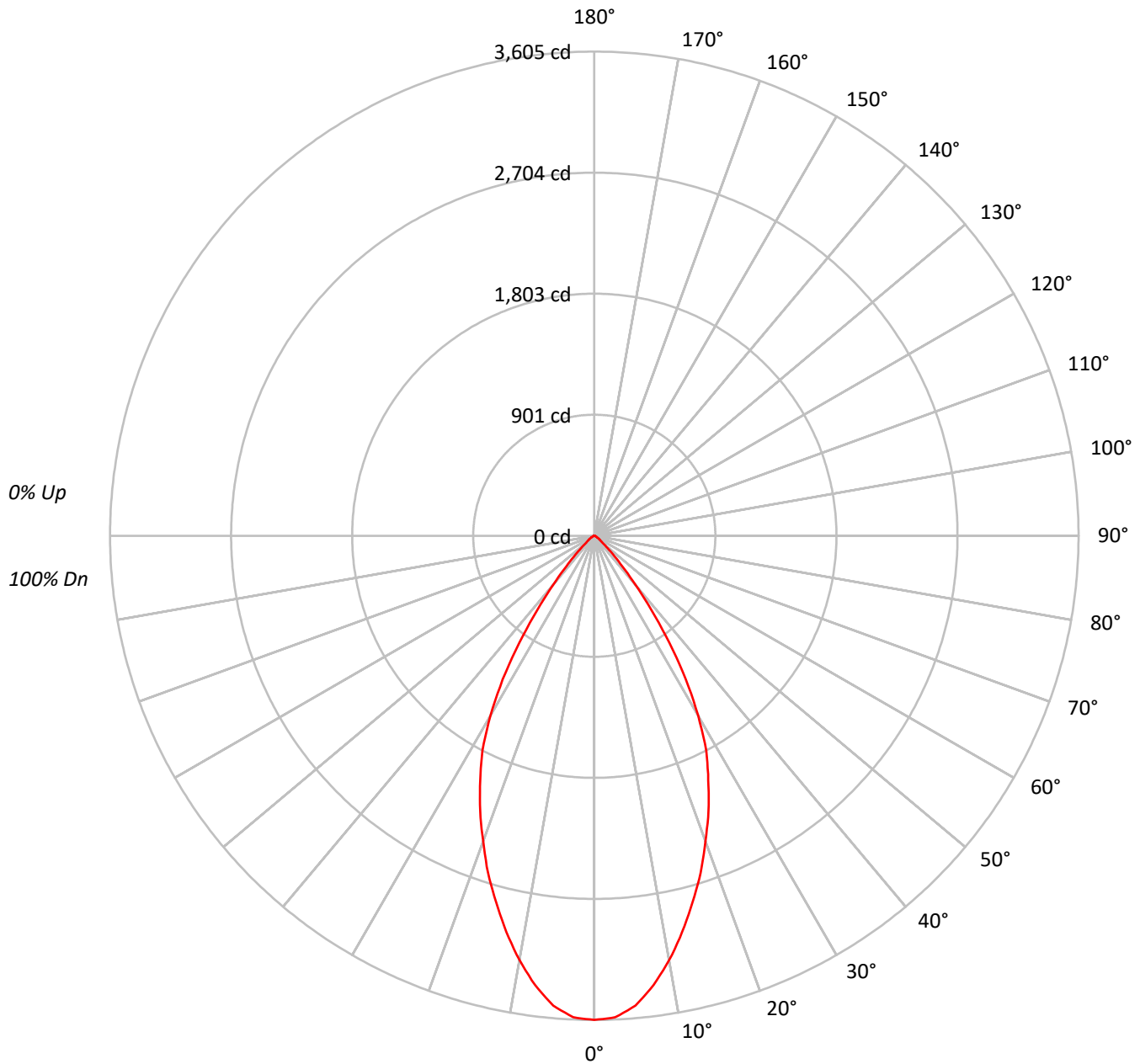
Lumens per Lamp: N/A
Luminaire Lumens: 2870.9 lumens
Efficiency: N/A
Efficacy: 57.9 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	113	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	93						
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87						
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81						
4	97	90	84	80	95	89	83	79	86	82	78	84	81	78	83	79	77	75						
5	92	84	78	74	91	83	78	73	81	76	73	80	75	72	78	74	72	70						
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	65						
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61						
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58						
9	76	66	60	56	74	65	60	56	65	59	56	64	59	56	63	59	55	54						
10	72	62	57	53	71	62	56	53	61	56	53	60	56	52	60	55	52	51						

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	442850
5°	432986
10°	400343
15°	359228
20°	316229
25°	272138
30°	219158
35°	145897
40°	75889
45°	34349
50°	14908
55°	10003
60°	6413
65°	4535
70°	3736
75°	2468
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.2	11.3
10°-20°	788.9	27.5
20°-30°	915.9	31.9
30°-40°	606.5	21.1
40°-50°	170.1	5.9
50°-60°	42.7	1.5
60°-70°	16.1	0.6
70°-80°	5.5	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°	2030.0	70.7
0°-40°	2636.6	91.8
0°-60°	2849.4	99.3
0°-90°	2870.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2870.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3605	
5°	3511	325
15°	2824	789
25°	2008	916
35°	973	607
45°	198	170
55°	47	43
65°	16	16
75°	5	5
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3604.7
2.5°	3589.0
5°	3511.0
7.5°	3375.6
10°	3209.2
12.5°	3021.9
15°	2824.4
17.5°	2631.9
20°	2418.8
22.5°	2221.0
25°	2007.6
27.5°	1804.9
30°	1544.9
32.5°	1269.1
35°	972.8
37.5°	697.0
40°	473.2
42.5°	306.8
45°	197.7
47.5°	119.7
50°	78.0
52.5°	57.1
55°	46.7
57.5°	36.5
60°	26.1
62.5°	20.9
65°	15.6
67.5°	10.4
70°	10.4
72.5°	5.2
75°	5.2
77.5°	5.2
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)