

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: P572279

Luminaire Tested: **FLD4C-10-D010 FEU4C-X-90-35 F4X-W-X-H-BL89BV**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P572279
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-10-D010 FEU4C-X-90-35 F4X-W-X-H-BL89BV
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 3500K, 90 CRI LEDS, 4LBWH TRIM
AND BOTTOM LENS, 0.125" CLEAR ACRYLIC

Light Source: -
Ballast/Driver: -

Summary

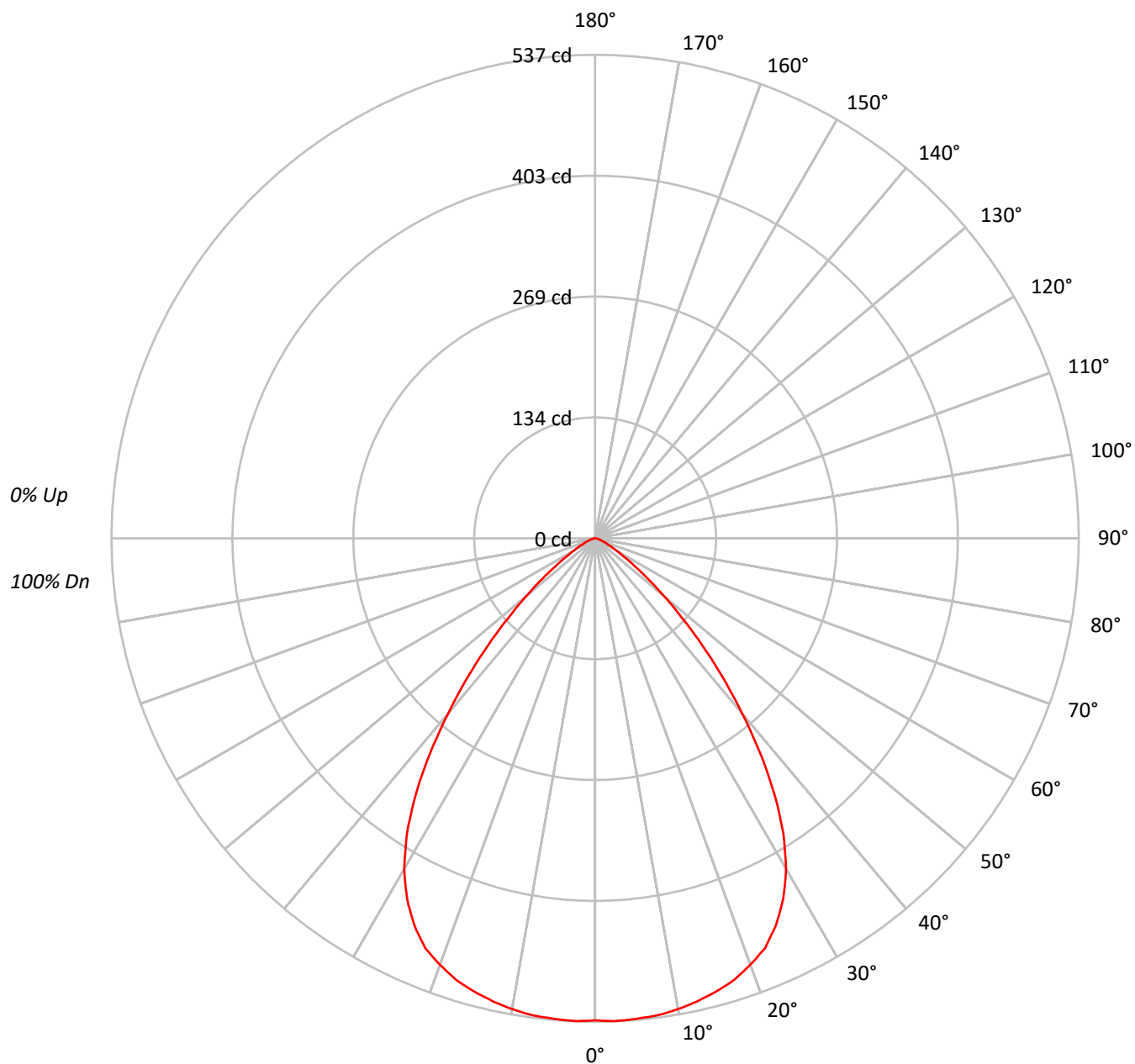
Lumens per Lamp: N/A
Luminaire Lumens: 831.0 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.75
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°	65800
5°	66052
10°	66254
15°	66265
20°	65892
25°	64347
30°	60148
35°	52087
40°	40687
45°	29188
50°	18960
55°	11352
60°	6634
65°	4273
70°	2838
75°	2136
80°	1627
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.0	6.1
10°-20°	147.0	17.7
20°-30°	216.9	26.1
30°-40°	214.0	25.8
40°-50°	131.0	15.8
50°-60°	50.2	6.0
60°-70°	15.7	1.9
70°-80°	4.6	0.6
80°-90°	0.6	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°	414.9	49.9
0°-40°	628.9	75.7
0°-60°	810.1	97.5
0°-90°	831.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	831.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	536	
5°	536	51
15°	521	147
25°	475	217
35°	347	214
45°	168	131
55°	53	50
65°	15	16
75°	4	5
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	535.6
2.5°	536.8
5°	535.6
7.5°	534.5
10°	531.1
12.5°	526.6
15°	521.0
17.5°	514.2
20°	504.0
22.5°	492.8
25°	474.7
27.5°	452.2
30°	424.0
32.5°	389.0
35°	347.3
37.5°	301.1
40°	253.7
42.5°	209.7
45°	168.0
47.5°	130.8
50°	99.2
52.5°	73.3
55°	53.0
57.5°	37.2
60°	27.0
62.5°	20.3
65°	14.7
67.5°	11.3
70°	7.9
72.5°	5.6
75°	4.5
77.5°	2.3
80°	2.3
82.5°	1.1
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)