

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: P573209

Luminaire Tested: **FLD4C-35-D010 FEU4C-X-90-40 F4X-N-X-LI-BL89BV**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573209
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208279)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD4C-35-D010 FEU4C-X-90-40 F4X-N-X-LI-BL89BV
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 4LBNLI TRIM
AND BOTTOM LENS, 0.125" CLEAR ACRYLIC

Light Source: -
Ballast/Driver: -

Summary

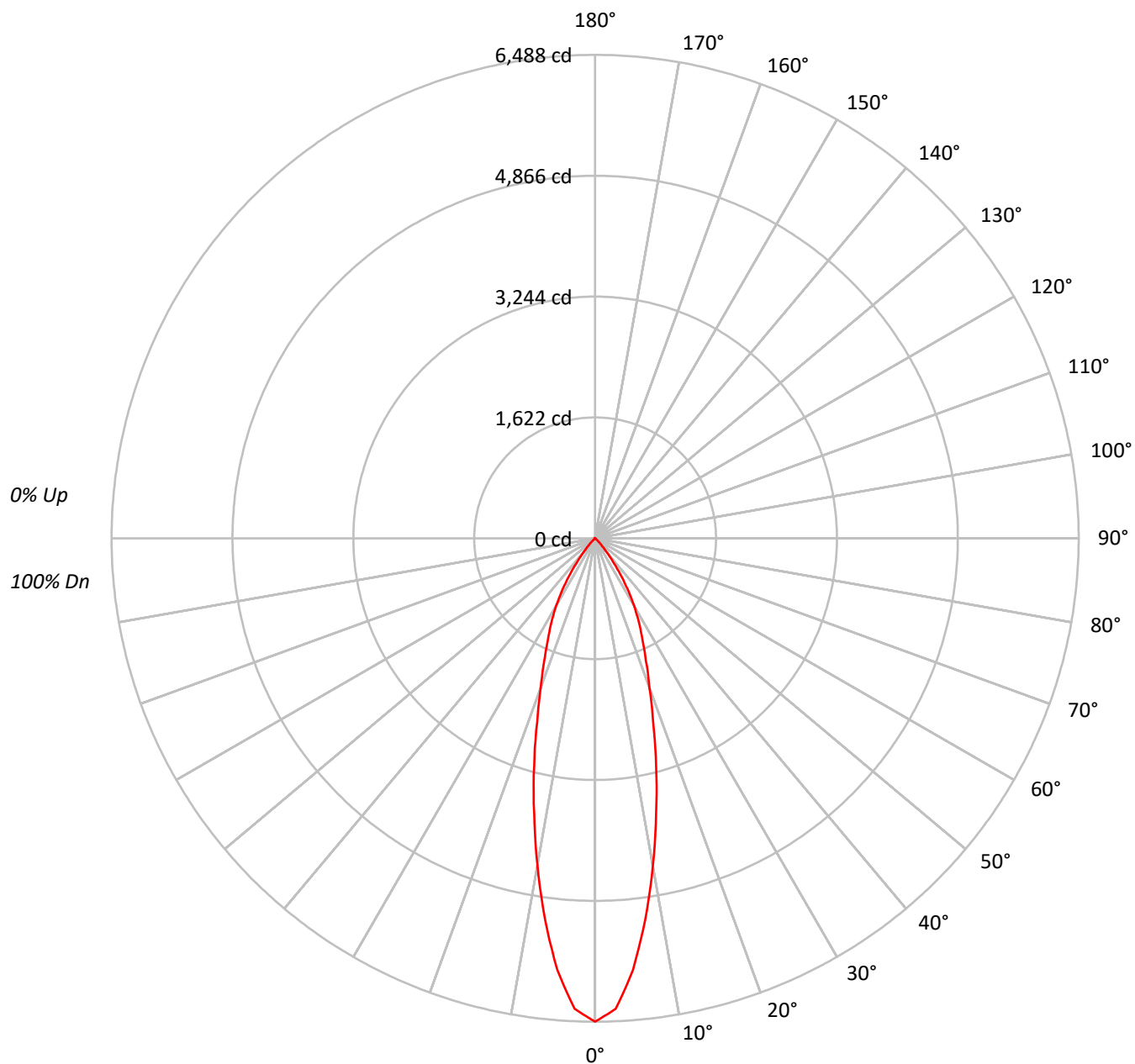
Lumens per Lamp: N/A
Luminaire Lumens: 2521.0 lumens
Efficiency: N/A
Efficacy: 62.4 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.54
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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	0			
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95			
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	92	90			
3	105	99	95	92	103	98	94	91	95	92	89	93	90	88	91	89	87	85			
4	101	94	89	86	99	93	88	85	91	87	84	89	86	83	87	84	82	81			
5	96	89	84	80	95	88	84	80	87	82	79	85	81	79	83	80	78	77			
6	92	85	80	76	91	84	79	76	83	78	75	81	78	75	80	77	74	73			
7	89	81	76	72	88	80	75	72	79	75	71	78	74	71	77	73	71	69			
8	85	77	72	68	84	77	72	68	76	71	68	75	71	68	74	70	67	66			
9	82	74	69	65	81	73	68	65	72	68	65	72	68	65	71	67	64	63			
10	79	71	66	62	78	70	65	62	69	65	62	69	65	62	68	64	62	61			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	797024
5°	717245
10°	556017
15°	402446
20°	278655
25°	203154
30°	147604
35°	87346
40°	36742
45°	11450
50°	1491
55°	835
60°	958
65°	1134
70°	0
75°	0
80°	0
85°	0

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	511.3	20.3
10°-20°	875.3	34.7
20°-30°	695.6	27.6
30°-40°	368.3	14.6
40°-50°	63.4	2.5
50°-60°	4.8	0.2
60°-70°	2.4	0.1
70°-80°	0.0	0.0
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°	2082.2	82.6
0°-40°	2450.4	97.2
0°-60°	2518.6	99.9
0°-90°	2521.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2521.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6488	
5°	5816	511
15°	3164	875
25°	1499	696
35°	582	368
45°	66	63
55°	4	5
65°	4	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6487.6
2.5°	6320.6
5°	5816.0
7.5°	5156.0
10°	4457.1
12.5°	3781.6
15°	3164.2
17.5°	2589.6
20°	2131.4
22.5°	1782.0
25°	1498.7
27.5°	1269.6
30°	1040.5
32.5°	807.6
35°	582.4
37.5°	384.4
40°	229.1
42.5°	132.0
45°	65.9
47.5°	23.3
50°	7.8
52.5°	7.8
55°	3.9
57.5°	3.9
60°	3.9
62.5°	3.9
65°	3.9
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
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)