

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: P573455

Luminaire Tested: **FLD4C-45-D010 FEU4C-X-90-27 F4X-N-X-H-BL89BV**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573455
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-90-27 F4X-N-X-H-BL89BV
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 4LBNH TRIM
AND BOTTOM LENS, 0.125" CLEAR ACRYLIC

Light Source: -
Ballast/Driver: -

Summary

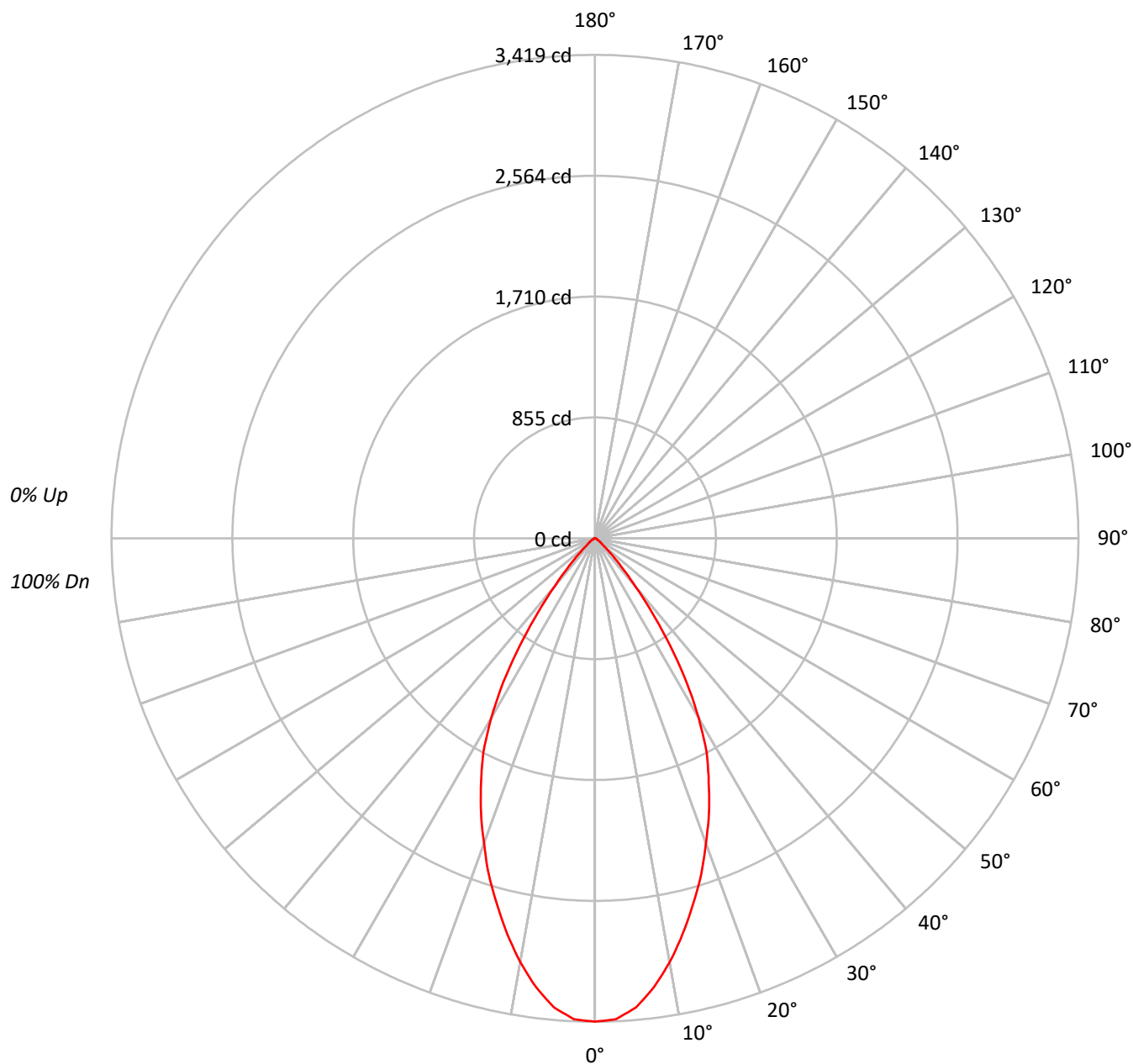
Lumens per Lamp: N/A
Luminaire Lumens: 2722.9 lumens
Efficiency: N/A
Efficacy: 54.9 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P573455

CATALOG NUMBER: FLD4C-45-D010 FEU4C-X-90-27 F4X-N-X-H-BL89BV

Luminous Intensity Polar Plot





TEST NUMBER: P573455

CATALOG NUMBER: FLD4C-45-D010 FEU4C-X-90-27 F4X-N-X-H-BL89BV

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	420011
5°	410665
10°	379710
15°	340709
20°	299926
25°	258122
30°	207852
35°	138368
40°	71976
45°	32576
50°	14143
55°	9489
60°	6069
65°	4302
70°	3556
75°	2326
80°	0
85°	0



TEST NUMBER: P573455

CATALOG NUMBER: FLD4C-45-D010 FEU4C-X-90-27 F4X-N-X-H-BL89BV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.5	11.3
10°-20°	748.2	27.5
20°-30°	868.7	31.9
30°-40°	575.3	21.1
40°-50°	161.4	5.9
50°-60°	40.5	1.5
60°-70°	15.2	0.6
70°-80°	5.2	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°	1925.4	70.7
0°-40°	2500.7	91.8
0°-60°	2702.5	99.3
0°-90°	2722.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2722.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3419	
5°	3330	308
15°	2679	748
25°	1904	869
35°	923	575
45°	188	161
55°	44	41
65°	15	15
75°	5	5
85°	0	0
90°	0	



TEST NUMBER: P573455

CATALOG NUMBER: FLD4C-45-D010 FEU4C-X-90-27 F4X-N-X-H-BL89BV

CANDELA DISTRIBUTION (FULL):

	0°
0°	3418.8
2.5°	3404.0
5°	3330.0
7.5°	3201.6
10°	3043.8
12.5°	2866.1
15°	2678.8
17.5°	2496.2
20°	2294.1
22.5°	2106.5
25°	1904.2
27.5°	1711.9
30°	1465.2
32.5°	1203.7
35°	922.6
37.5°	661.1
40°	448.8
42.5°	291.0
45°	187.5
47.5°	113.6
50°	74.0
52.5°	54.2
55°	44.3
57.5°	34.6
60°	24.7
62.5°	19.8
65°	14.8
67.5°	9.9
70°	9.9
72.5°	4.9
75°	4.9
77.5°	4.9
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180°







(END OF REPORT)