

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: P573598

Luminaire Tested: **FLD4C-45-D010 FEU4C-X-90-50 F4X-N-X-H-BL89AM**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573598
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-90-50 F4X-N-X-H-BL89AM
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 4LBNH TRIM
AND BOTTOM LENS, 0.125" OPAL POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

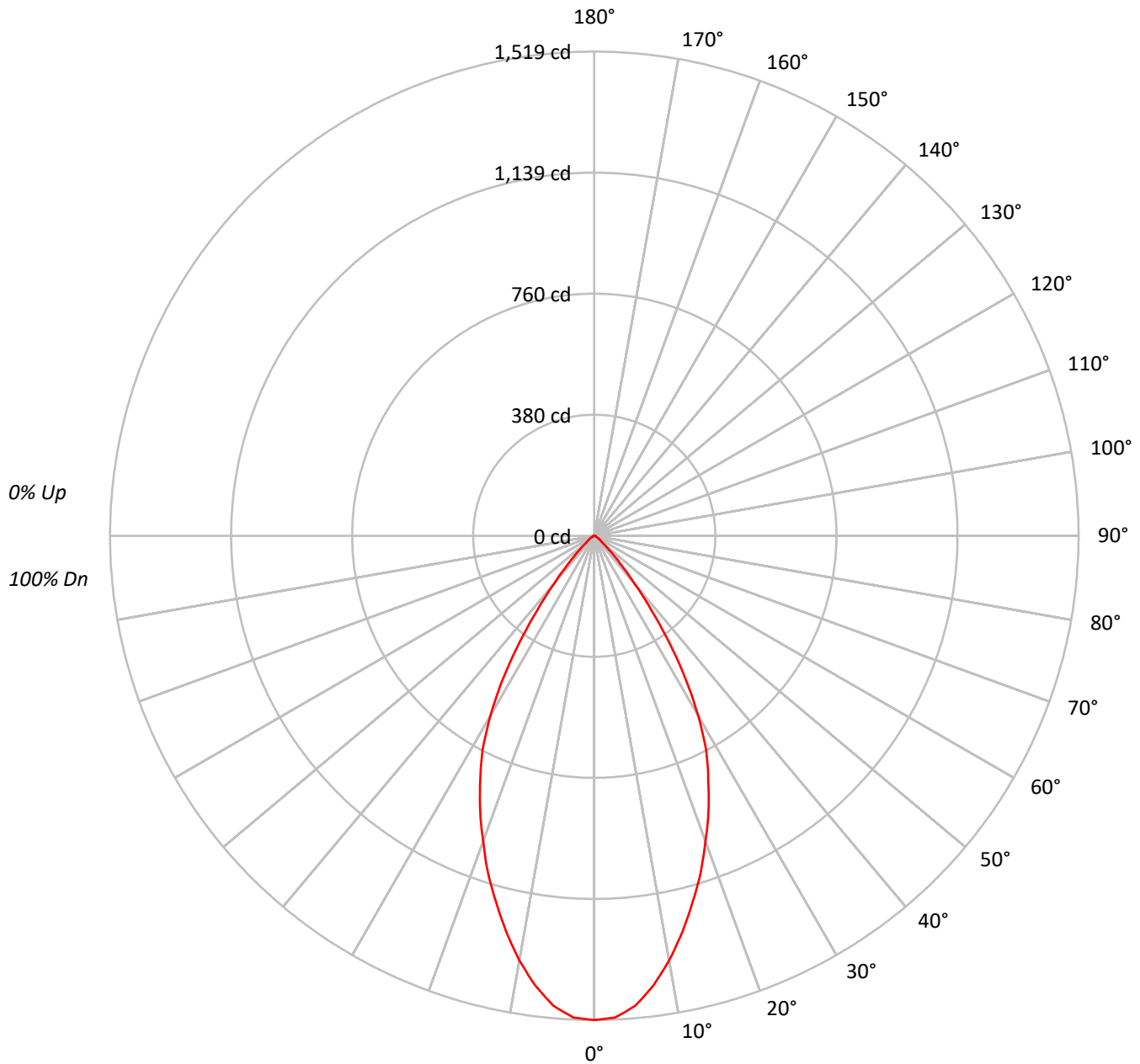
Lumens per Lamp: N/A
Luminaire Lumens: 1210.0 lumens
Efficiency: N/A
Efficacy: 24.4 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
Input Voltage (V): NR
Input Current (A_{in}): 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
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°	186639
5°	182481
10°	168723
15°	151404
20°	133274
25°	114692
30°	92364
35°	61490
40°	31979
45°	14473
50°	6288
55°	4220
60°	2703
65°	1919
70°	1580
75°	1044
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.1	11.3
10°-20°	332.5	27.5
20°-30°	386.0	31.9
30°-40°	255.6	21.1
40°-50°	71.7	5.9
50°-60°	18.0	1.5
60°-70°	6.8	0.6
70°-80°	2.3	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°	855.6	70.7
0°-40°	1111.2	91.8
0°-60°	1200.9	99.2
0°-90°	1210.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1210.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1519	
5°	1480	137
15°	1190	332
25°	846	386
35°	410	256
45°	83	72
55°	20	18
65°	7	7
75°	2	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1519.2
2.5°	1512.6
5°	1479.7
7.5°	1422.7
10°	1352.5
12.5°	1273.6
15°	1190.4
17.5°	1109.2
20°	1019.4
22.5°	936.1
25°	846.1
27.5°	760.7
30°	651.1
32.5°	534.9
35°	410.0
37.5°	293.8
40°	199.4
42.5°	129.3
45°	83.3
47.5°	50.5
50°	32.9
52.5°	24.1
55°	19.7
57.5°	15.4
60°	11.0
62.5°	8.8
65°	6.6
67.5°	4.4
70°	4.4
72.5°	2.2
75°	2.2
77.5°	2.2
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)