

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: P573442

Luminaire Tested: **FLD4C-45-D010 FEU4C-X-90-27 F4X-M-X-H-BL89AM**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573442
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P207151)
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-M-X-H-BL89AM
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 4LBMH TRIM
AND BOTTOM LENS, 0.125" OPAL POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

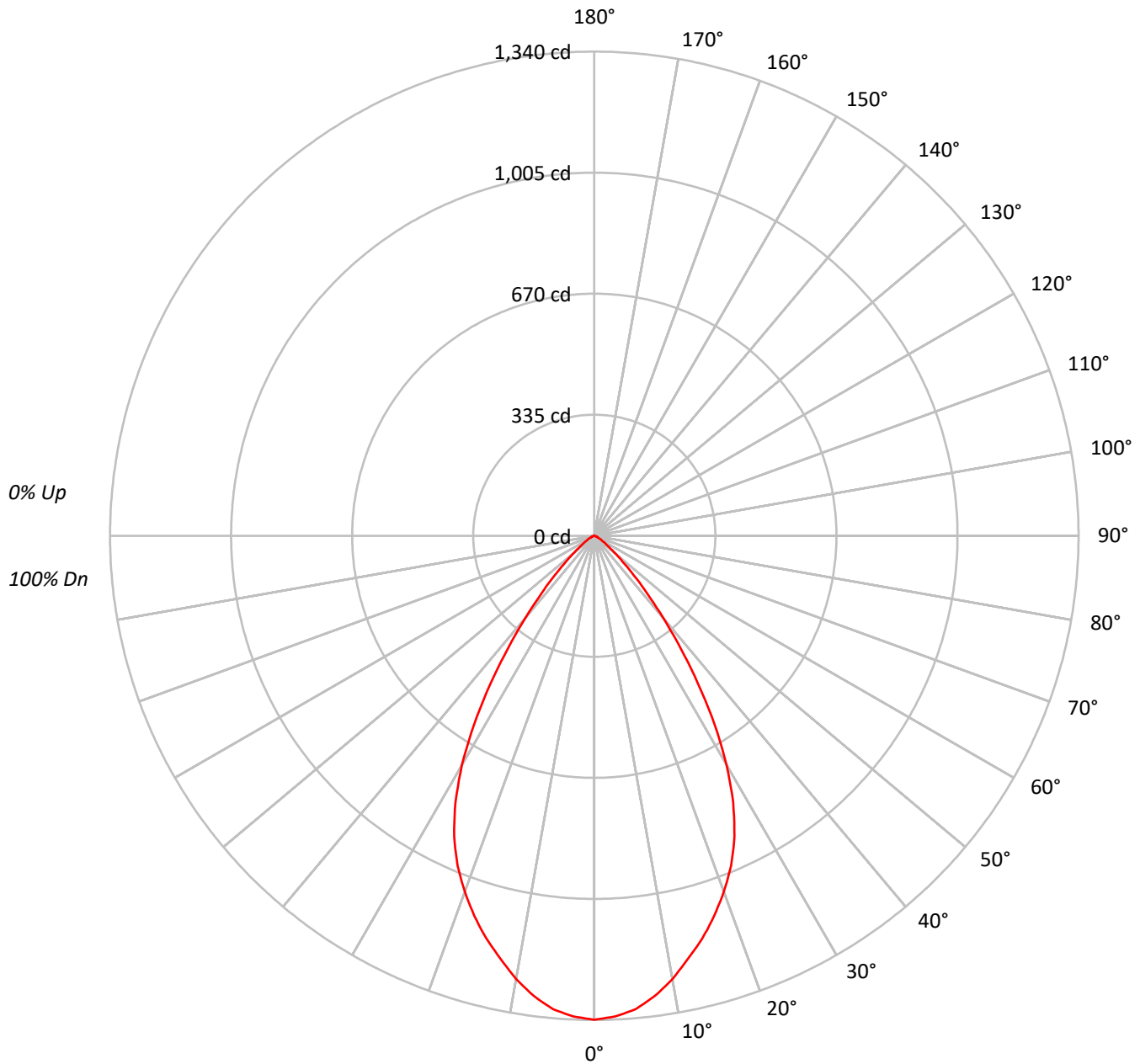
Lumens per Lamp: N/A
Luminaire Lumens: 1351.0 lumens
Efficiency: N/A
Efficacy: 27.2 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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
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	110	108	105		111	108	106	104		104	102	100		100	99	97		97	96	95
2	107	102	98	94		105	100	96	93		97	94	91		94	91	89		91	89	87
3	101	94	89	85		99	93	88	84		90	86	83		88	84	82		86	83	80
4	96	88	82	77		94	86	81	77		84	80	76		82	78	75		80	77	74
5	90	82	75	71		89	81	75	70		79	74	70		77	73	69		75	72	69
6	86	76	70	65		84	75	69	65		74	68	64		72	68	64		71	67	64
7	81	71	65	60		80	70	64	60		69	64	60		68	63	59		67	62	59
8	77	67	60	56		75	66	60	56		65	59	56		64	59	55		63	58	55
9	73	63	56	52		72	62	56	52		61	56	52		60	55	52		59	55	52
10	69	59	53	49		68	59	53	49		58	52	49		57	52	48		56	52	48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	164575
5°	162182
10°	155412
15°	146787
20°	137013
25°	124371
30°	103841
35°	75228
40°	47086
45°	26912
50°	14029
55°	7861
60°	5012
65°	2965
70°	2191
75°	949
80°	1415
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.3	9.1
10°-20°	323.4	23.9
20°-30°	415.6	30.8
30°-40°	312.7	23.1
40°-50°	125.6	9.3
50°-60°	35.7	2.6
60°-70°	11.3	0.8
70°-80°	3.2	0.2
80°-90°	0.3	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°	862.2	63.8
0°-40°	1174.9	87.0
0°-60°	1336.2	98.9
0°-90°	1351.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1351.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1340	
5°	1315	123
15°	1154	323
25°	918	416
35°	502	313
45°	155	126
55°	37	36
65°	10	11
75°	2	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1339.6
2.5°	1331.4
5°	1315.1
7.5°	1284.5
10°	1245.8
12.5°	1198.9
15°	1154.1
17.5°	1103.1
20°	1048.0
22.5°	988.9
25°	917.5
27.5°	831.9
30°	732.0
32.5°	619.8
35°	501.6
37.5°	391.5
40°	293.6
42.5°	216.1
45°	154.9
47.5°	106.1
50°	73.4
52.5°	51.0
55°	36.7
57.5°	26.5
60°	20.4
62.5°	14.3
65°	10.2
67.5°	8.2
70°	6.1
72.5°	4.1
75°	2.0
77.5°	2.0
80°	2.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)