

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: P573022

Luminaire Tested: **FLD4C-30-D010 FEU4C-X-90-40 F4X-N-X-H-BL89AM**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573022
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-30-D010 FEU4C-X-90-40 F4X-N-X-H-BL89AM
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 4LBNH TRIM
AND BOTTOM LENS, 0.125" OPAL POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

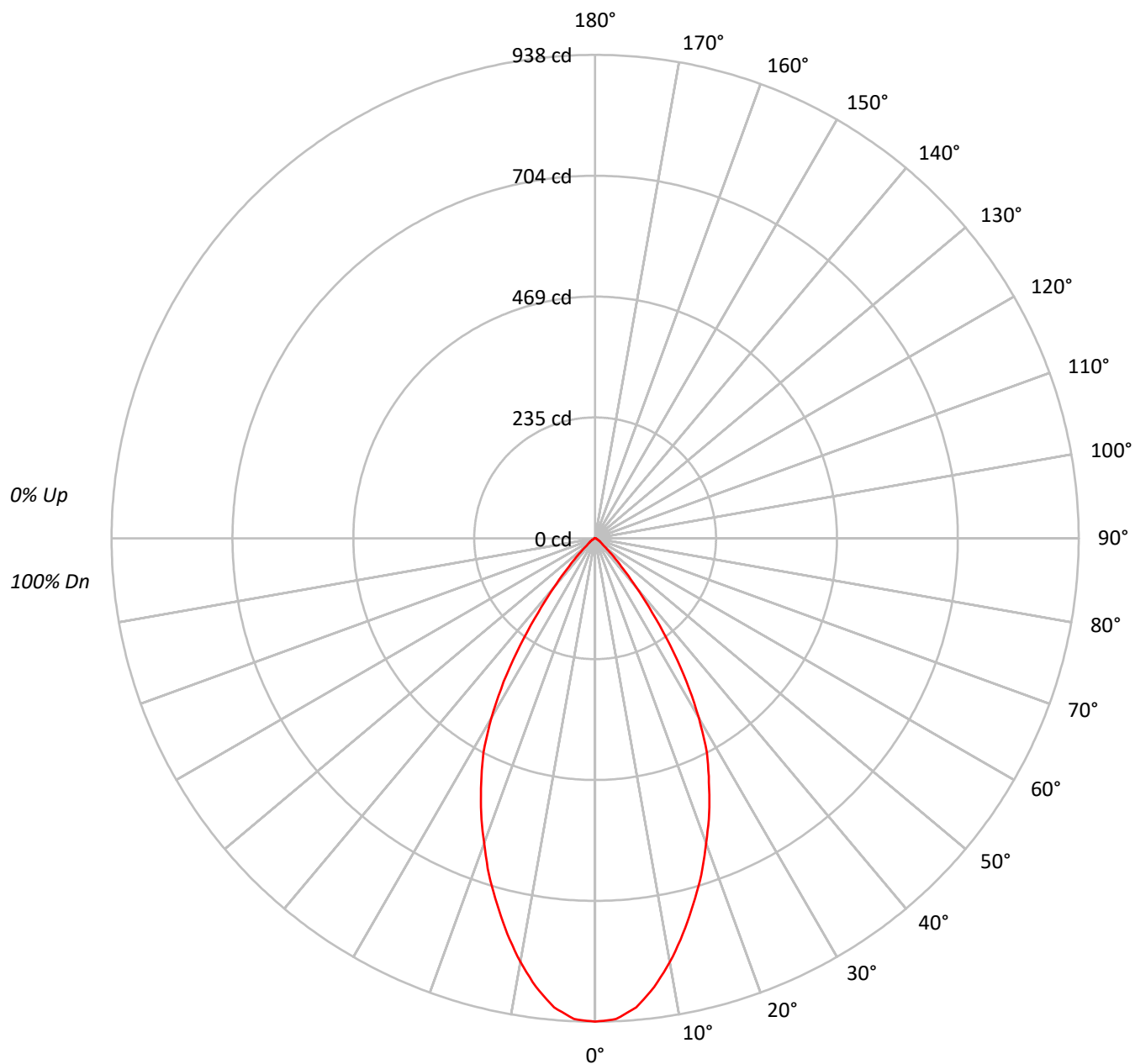
Lumens per Lamp: N/A
Luminaire Lumens: 747.1 lumens
Efficiency: N/A
Efficacy: 23.6 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
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			0
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111			106	106	106			100
1	113	111	108	106		111	109	106	104		105	103	101			101	99	98			93
2	108	103	99	96		106	101	98	94		98	95	92			95	93	90			87
3	102	96	91	87		100	95	90	86		92	88	85			90	86	84			81
4	97	90	84	80		95	89	83	79		86	82	78			84	81	78			75
5	92	84	78	74		91	83	78	73		81	76	73			80	75	72			70
6	88	79	73	69		86	78	72	68		76	72	68			75	71	67			65
7	83	74	68	64		82	73	68	64		72	67	63			71	66	63			61
8	79	70	64	60		78	69	64	60		68	63	59			67	63	59			58
9	76	66	60	56		74	65	60	56		65	59	56			64	59	56			54
10	72	62	57	53		71	62	56	53		61	56	53			60	56	52			51

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	115224
5°	112655
10°	104165
15°	93470
20°	82273
25°	70813
30°	57027
35°	37959
40°	19742
45°	8930
50°	3880
55°	2613
60°	1671
65°	1192
70°	970
75°	665
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.6	11.3
10°-20°	205.3	27.5
20°-30°	238.3	31.9
30°-40°	157.8	21.1
40°-50°	44.3	5.9
50°-60°	11.1	1.5
60°-70°	4.2	0.6
70°-80°	1.5	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°	528.2	70.7
0°-40°	686.0	91.8
0°-60°	741.4	99.2
0°-90°	747.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	747.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	938	
5°	914	85
15°	735	205
25°	522	238
35°	253	158
45°	51	44
55°	12	11
65°	4	4
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	937.9
2.5°	933.8
5°	913.5
7.5°	878.3
10°	835.0
12.5°	786.3
15°	734.9
17.5°	684.8
20°	629.3
22.5°	577.9
25°	522.4
27.5°	469.6
30°	402.0
32.5°	330.2
35°	253.1
37.5°	181.4
40°	123.1
42.5°	79.8
45°	51.4
47.5°	31.2
50°	20.3
52.5°	14.9
55°	12.2
57.5°	9.5
60°	6.8
62.5°	5.4
65°	4.1
67.5°	2.7
70°	2.7
72.5°	1.4
75°	1.4
77.5°	1.4
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)