

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: P573476

Luminaire Tested: **FLD4C-45-D010 FEU4C-X-90-30 F4X-M-X-H-BL85**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573476
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-90-30 F4X-M-X-H-BL85
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 3000K, 90 CRI LEDS, 4LBMH TRIM
AND BOTTOM LENS, 0.187" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

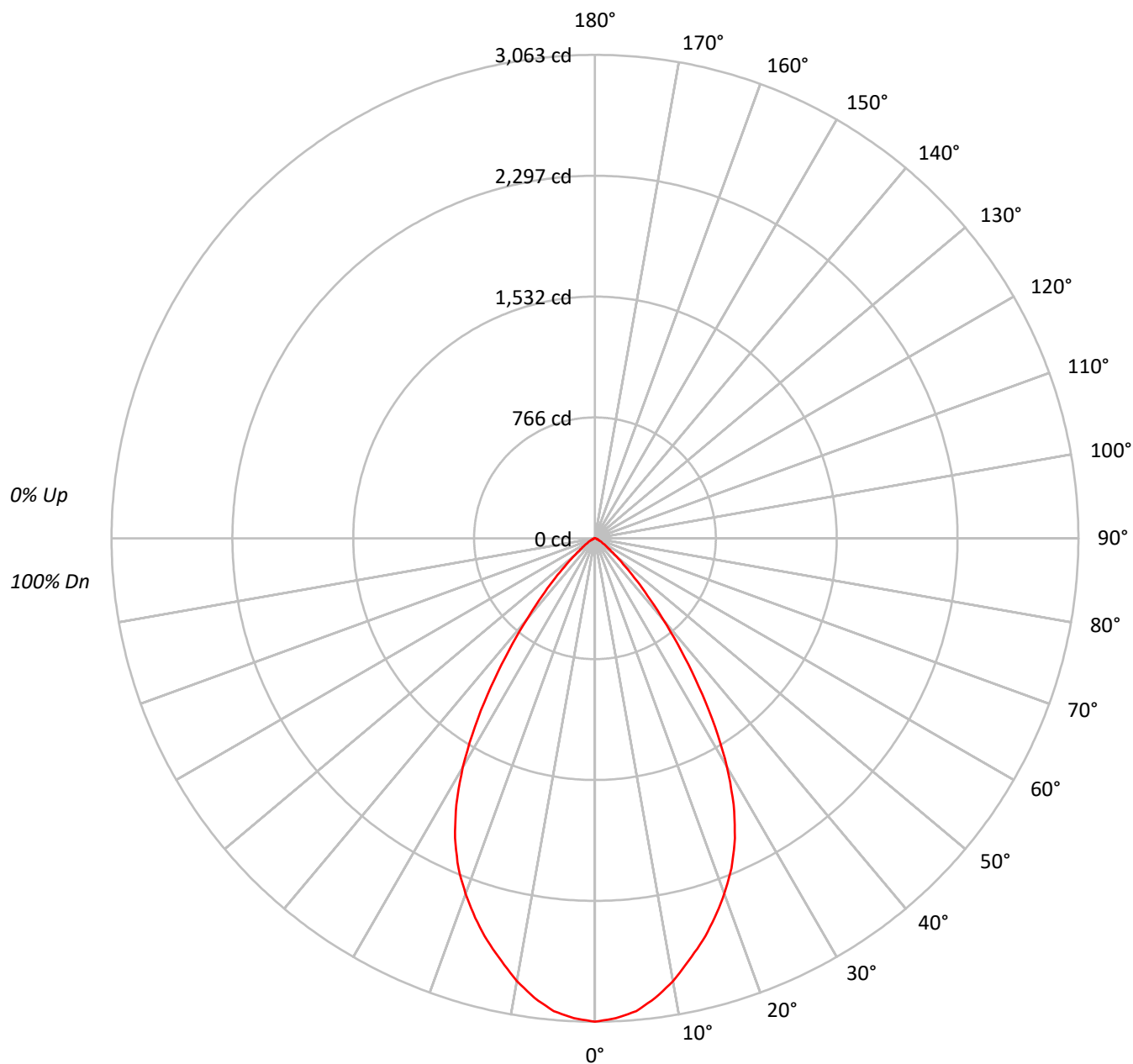
Lumens per Lamp: N/A
Luminaire Lumens: 3089.0 lumens
Efficiency: N/A
Efficacy: 62.3 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111			106	106	106			102
1	113	110	108	105		111	108	106	104		104	102	100			100	99	97			97
2	107	102	98	94		105	100	96	93		97	94	91			94	91	89			91
3	101	94	89	85		99	93	88	84		90	86	83			88	84	82			86
4	96	88	82	77		94	86	81	77		84	80	76			82	78	75			80
5	90	82	75	71		89	81	75	70		79	74	70			77	73	69			75
6	86	76	70	65		84	75	69	65		74	68	64			72	68	64			71
7	81	71	65	60		80	70	64	60		69	64	60			68	63	59			67
8	77	67	60	56		75	66	60	56		65	59	56			64	59	55			63
9	73	63	56	52		72	62	56	52		61	56	52			60	55	52			59
10	69	59	53	49		68	59	53	49		58	52	49			57	52	48			56

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	376288
5°	370832
10°	355334
15°	335609
20°	313274
25°	284378
30°	237429
35°	172008
40°	107675
45°	61539
50°	32090
55°	17992
60°	11450
65°	6773
70°	5029
75°	2231
80°	3325
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.8	9.1
10°-20°	739.4	23.9
20°-30°	950.2	30.8
30°-40°	714.9	23.1
40°-50°	287.1	9.3
50°-60°	81.6	2.6
60°-70°	25.8	0.8
70°-80°	7.4	0.2
80°-90°	0.6	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°	1971.5	63.8
0°-40°	2686.4	87.0
0°-60°	3055.1	98.9
0°-90°	3089.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3089.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3063	
5°	3007	282
15°	2639	739
25°	2098	950
35°	1147	715
45°	354	287
55°	84	82
65°	23	26
75°	5	7
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3062.9
2.5°	3044.3
5°	3007.0
7.5°	2937.0
10°	2848.4
12.5°	2741.3
15°	2638.7
17.5°	2522.1
20°	2396.2
22.5°	2261.2
25°	2097.9
27.5°	1902.0
30°	1673.7
32.5°	1417.2
35°	1146.9
37.5°	895.1
40°	671.4
42.5°	494.2
45°	354.2
47.5°	242.5
50°	167.9
52.5°	116.6
55°	84.0
57.5°	60.6
60°	46.6
62.5°	32.6
65°	23.3
67.5°	18.7
70°	14.0
72.5°	9.3
75°	4.7
77.5°	4.7
80°	4.7
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)