

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: P572996

Luminaire Tested: **FLD4C-30-D010 FEU4C-X-90-35 F4X-W-X-H-BL85**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P572996
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P206636)
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-90-35 F4X-W-X-H-BL85
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 3500K, 90 CRI LEDS, 4LBWH TRIM
AND BOTTOM LENS, 0.187" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

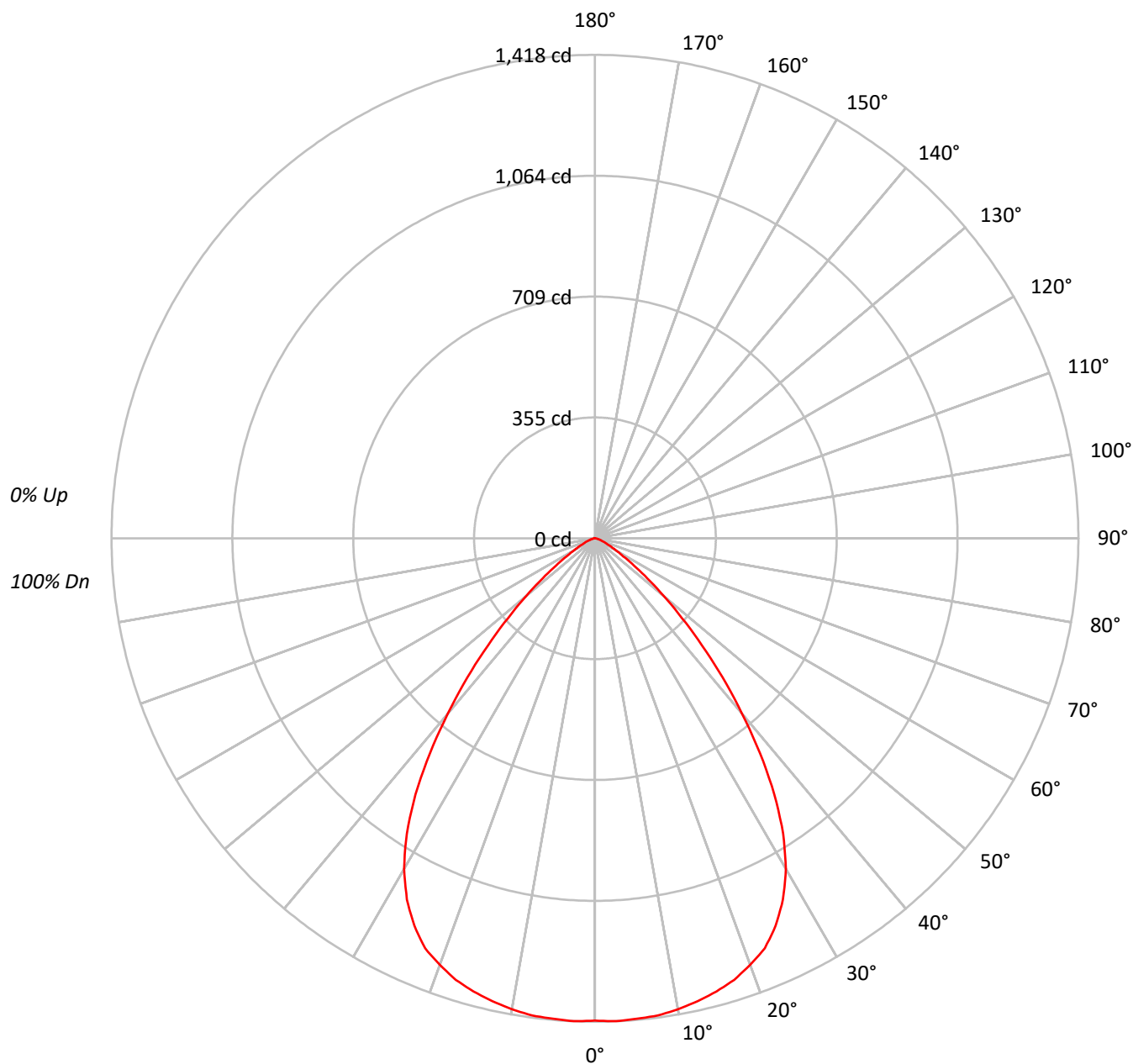
Lumens per Lamp: N/A
Luminaire Lumens: 2195.0 lumens
Efficiency: N/A
Efficacy: 69.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
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			0
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111			106	106	106			100
1	112	109	106	104		110	107	104	102		103	101	99			99	97	96			91
2	105	100	95	91		103	98	93	90		95	91	88			91	88	86			82
3	99	91	85	80		97	90	84	80		87	82	78			84	80	77			74
4	92	83	77	72		90	82	76	71		80	75	70			78	73	70			67
5	87	77	70	65		85	76	69	64		74	68	64			72	67	63			61
6	81	71	64	58		80	70	63	58		68	62	58			67	61	57			55
7	76	65	58	53		75	65	58	53		63	57	53			62	56	52			50
8	72	60	53	49		70	60	53	49		59	53	48			58	52	48			46
9	68	56	49	45		66	56	49	45		55	49	44			54	48	44			43
10	64	52	46	41		63	52	46	41		51	45	41			50	45	41			39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	173813
5°	174477
10°	175010
15°	175022
20°	174051
25°	169971
30°	158868
35°	137573
40°	107466
45°	77106
50°	50094
55°	29986
60°	17543
65°	11279
70°	7507
75°	5649
80°	4245
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.7	6.1
10°-20°	388.2	17.7
20°-30°	572.9	26.1
30°-40°	565.3	25.8
40°-50°	345.9	15.8
50°-60°	132.7	6.0
60°-70°	41.5	1.9
70°-80°	12.2	0.6
80°-90°	1.6	0.1
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°	1095.8	49.9
0°-40°	1661.1	75.7
0°-60°	2139.7	97.5
0°-90°	2195.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2195.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1415	
5°	1415	135
15°	1376	388
25°	1254	573
35°	917	565
45°	444	346
55°	140	133
65°	39	41
75°	12	12
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1414.8
2.5°	1417.8
5°	1414.8
7.5°	1411.8
10°	1402.9
12.5°	1391.0
15°	1376.1
17.5°	1358.2
20°	1331.3
22.5°	1301.7
25°	1253.9
27.5°	1194.3
30°	1119.9
32.5°	1027.6
35°	917.3
37.5°	795.2
40°	670.1
42.5°	554.0
45°	443.8
47.5°	345.4
50°	262.1
52.5°	193.7
55°	140.0
57.5°	98.3
60°	71.4
62.5°	53.7
65°	38.8
67.5°	29.8
70°	20.9
72.5°	14.9
75°	11.9
77.5°	6.0
80°	6.0
82.5°	3.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)