

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: P573211

Luminaire Tested: **FLD4C-35-D010 FEU4C-X-90-40 F4X-W-X-H-BL84**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573211
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-35-D010 FEU4C-X-90-40 F4X-W-X-H-BL84
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 4LBWH TRIM
AND BOTTOM LENS, 0.125" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

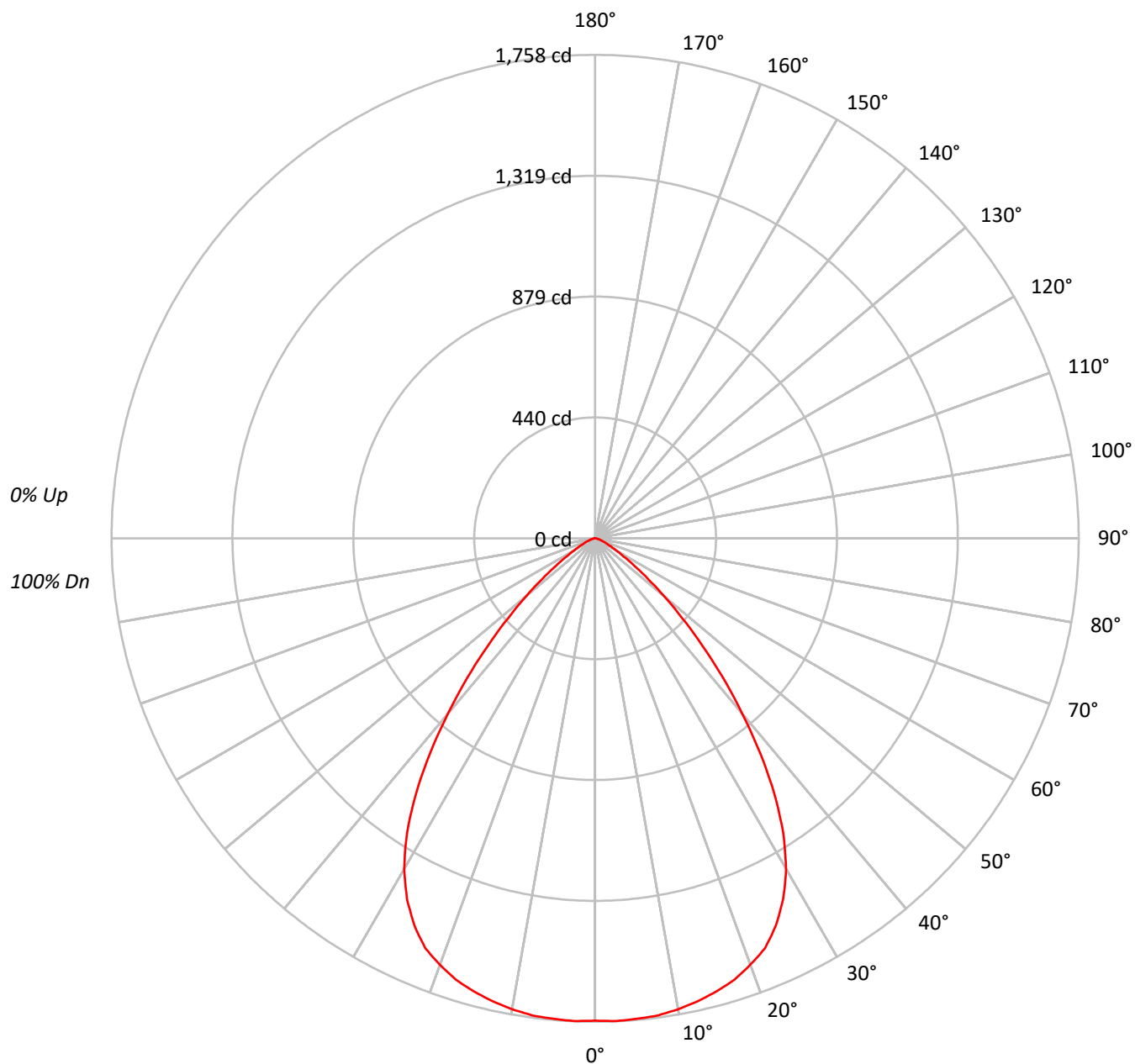
Lumens per Lamp: N/A
Luminaire Lumens: 2721.0 lumens
Efficiency: N/A
Efficacy: 67.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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	112	109	106	104	110	107	104	102	103	101	99		99	97	96		96
2	105	100	95	91	103	98	93	90	95	91	88		91	88	86		89
3	99	91	85	80	97	90	84	80	87	82	78		84	80	77		82
4	92	83	77	72	90	82	76	71	80	75	70		78	73	70		76
5	87	77	70	65	85	76	69	64	74	68	64		72	67	63		70
6	81	71	64	58	80	70	63	58	68	62	58		67	61	57		65
7	76	65	58	53	75	65	58	53	63	57	53		62	56	52		61
8	72	60	53	49	70	60	53	49	59	53	48		58	52	48		57
9	68	56	49	45	66	56	49	45	55	49	44		54	48	44		53
10	64	52	46	41	63	52	46	41	51	45	41		50	45	41		49

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	215460
5°	216283
10°	216950
15°	216956
20°	215770
25°	210705
30°	196943
35°	170538
40°	133223
45°	95592
50°	62097
55°	37162
60°	21745
65°	13953
70°	9303
75°	7025
80°	5235
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.0	6.1
10°-20°	481.3	17.7
20°-30°	710.2	26.1
30°-40°	700.8	25.8
40°-50°	428.9	15.8
50°-60°	164.4	6.0
60°-70°	51.4	1.9
70°-80°	15.1	0.6
80°-90°	2.0	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°	1358.4	49.9
0°-40°	2059.2	75.7
0°-60°	2652.5	97.5
0°-90°	2721.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2721.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1754	
5°	1754	167
15°	1706	481
25°	1554	710
35°	1137	701
45°	550	429
55°	174	164
65°	48	51
75°	15	15
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1753.8
2.5°	1757.5
5°	1753.8
7.5°	1750.2
10°	1739.1
12.5°	1724.3
15°	1705.8
17.5°	1683.6
20°	1650.4
22.5°	1613.6
25°	1554.4
27.5°	1480.5
30°	1388.3
32.5°	1273.9
35°	1137.1
37.5°	985.8
40°	830.7
42.5°	686.8
45°	550.2
47.5°	428.2
50°	324.9
52.5°	240.1
55°	173.5
57.5°	121.8
60°	88.5
62.5°	66.5
65°	48.0
67.5°	37.0
70°	25.9
72.5°	18.5
75°	14.8
77.5°	7.4
80°	7.4
82.5°	3.7
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)