

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: P573446

Luminaire Tested: **FLD4C-45-D010 FEU4C-X-90-27 F4X-M-X-LI-BL85**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573446
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205108)
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-LI-BL85
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 4LBMLI TRIM
AND BOTTOM LENS, 0.187" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

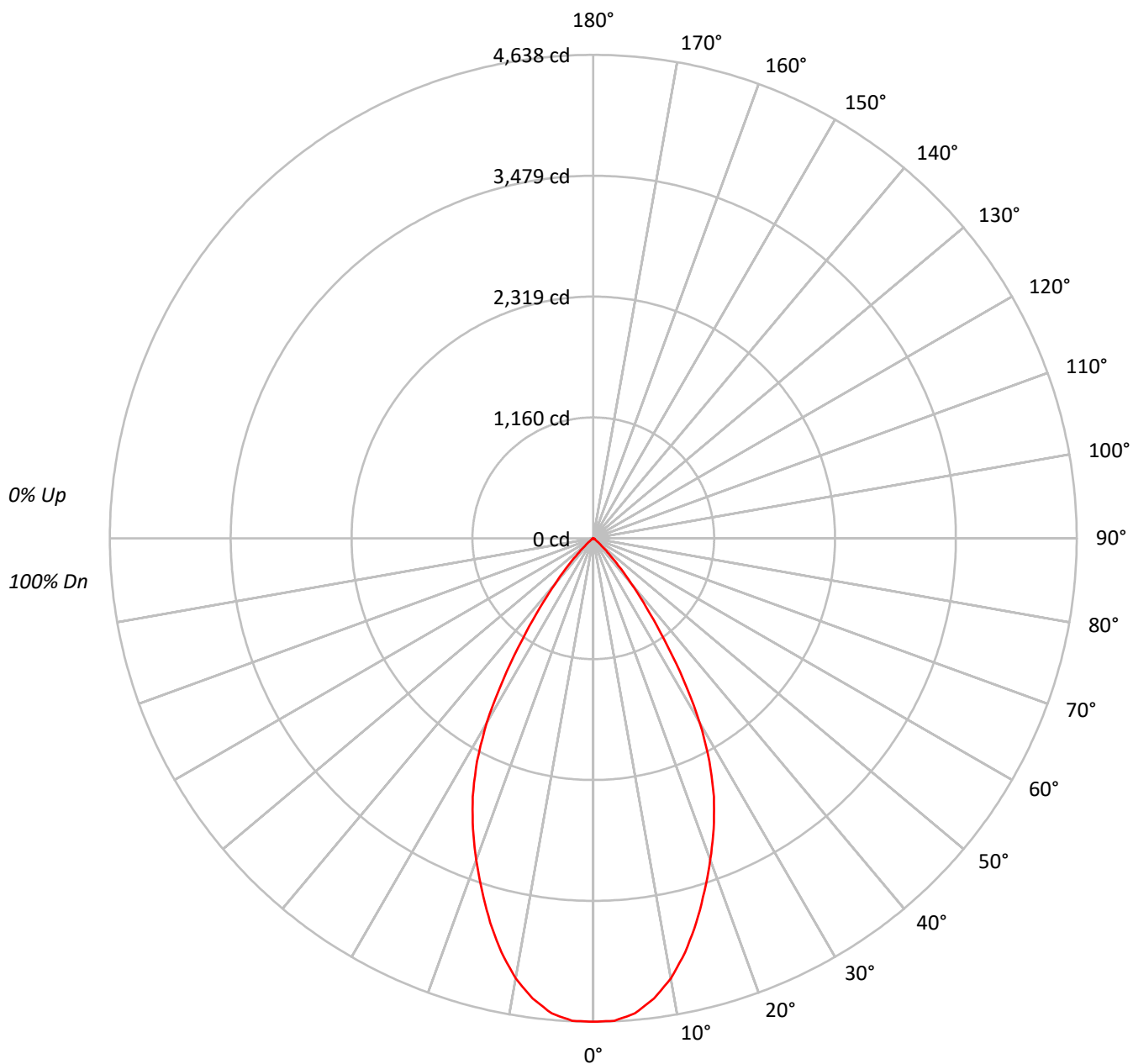
Lumens per Lamp: N/A
Luminaire Lumens: 3706.1 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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				0
RW	70	50	30	10	70	50	30	10	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	102	102	102	100			
1	114	111	109	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94			
2	108	103	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88			
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	85	83	82			
4	98	91	85	81	96	89	84	81	87	83	80	85	82	79	83	80	78	76			
5	93	85	79	75	91	84	79	75	82	78	74	81	77	73	79	76	73	71			
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67			
7	84	75	69	65	83	75	69	65	73	68	65	72	68	64	71	67	64	63			
8	80	71	65	61	79	70	65	61	69	64	61	68	64	60	67	63	60	59			
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55			
10	73	64	58	54	72	63	58	54	62	57	54	62	57	54	61	57	54	52			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	569782
5°	564362
10°	534785
15°	485537
20°	429043
25°	370916
30°	289946
35°	177812
40°	91269
45°	36260
50°	11773
55°	4048
60°	3489
65°	2791
70°	1724
75°	2278
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.2	11.5
10°-20°	1063.7	28.7
20°-30°	1236.5	33.4
30°-40°	757.2	20.4
40°-50°	188.0	5.1
50°-60°	22.0	0.6
60°-70°	8.3	0.2
70°-80°	3.1	0.1
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°	2727.5	73.6
0°-40°	3484.7	94.0
0°-60°	3694.7	99.7
0°-90°	3706.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3706.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4638	
5°	4576	427
15°	3818	1064
25°	2736	1237
35°	1186	757
45°	209	188
55°	19	22
65°	10	8
75°	5	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4637.9
2.5°	4633.1
5°	4576.3
7.5°	4452.9
10°	4286.9
12.5°	4068.8
15°	3817.5
17.5°	3547.2
20°	3281.7
22.5°	3016.0
25°	2736.3
27.5°	2413.8
30°	2043.9
32.5°	1612.3
35°	1185.6
37.5°	834.6
40°	569.1
42.5°	355.6
45°	208.7
47.5°	118.6
50°	61.6
52.5°	28.5
55°	18.9
57.5°	14.2
60°	14.2
62.5°	9.6
65°	9.6
67.5°	4.8
70°	4.8
72.5°	4.8
75°	4.8
77.5°	0.0
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)