

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: P578248

Luminaire Tested: **FLD6C-55-D010 FEU6C-X-90-50 F6X-M-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P578248
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P203254)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD6C-55-D010 FEU6C-X-90-50 F6X-M-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 6LBMH TRIM

Light Source: -
Ballast/Driver: -

Summary

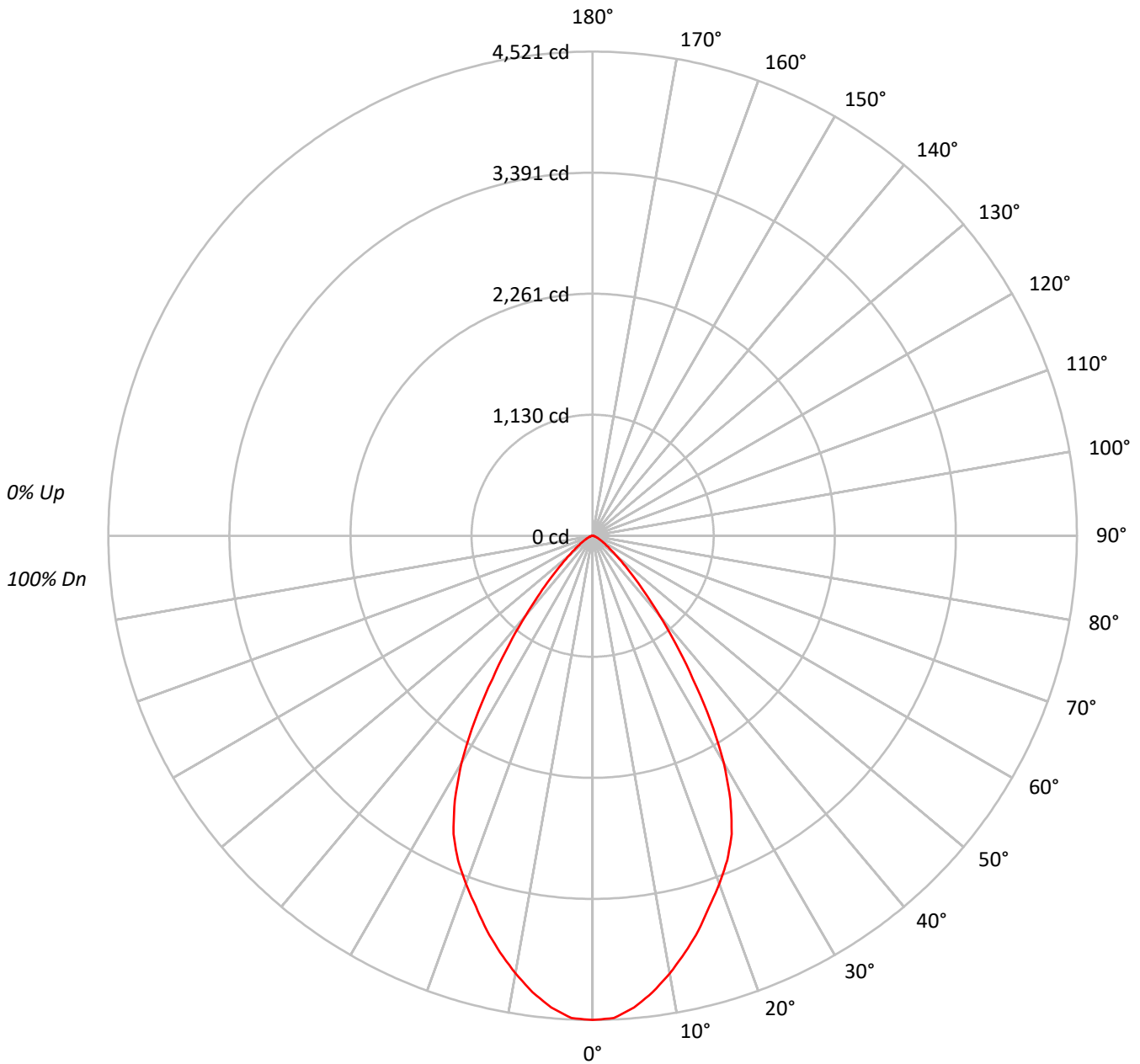
Lumens per Lamp: N/A
Luminaire Lumens: 4567.9 lumens
Efficiency: N/A
Efficacy: 71.5 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.93
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 63.9
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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	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						100													
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92						92													
2	107	102	97	93	105	100	96	92	97	93	90	94	91	88	91	89	87	85						85													
3	101	94	88	84	99	92	88	84	90	86	82	87	84	81	85	82	80	78						78													
4	95	87	81	76	93	86	80	76	84	79	75	82	78	74	80	76	73	72						72													
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66						66													
6	85	75	69	64	83	75	69	64	73	68	64	72	67	63	70	66	63	61						61													
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57						57													
8	76	66	60	55	75	65	59	55	64	59	55	63	58	55	62	58	54	53						53													
9	72	62	56	51	71	61	55	51	60	55	51	60	55	51	59	54	51	49						49													
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	55	51	48	46						46													

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	247826
5°	243390
10°	230958
15°	216573
20°	201699
25°	185841
30°	154853
35°	109138
40°	69559
45°	41477
50°	24485
55°	15579
60°	10723
65°	7614
70°	5241
75°	4151
80°	2020
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.3	9.0
10°-20°	1069.3	23.4
20°-30°	1385.5	30.3
30°-40°	1028.6	22.5
40°-50°	434.3	9.5
50°-60°	154.2	3.4
60°-70°	59.5	1.3
70°-80°	20.6	0.5
80°-90°	2.6	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°	2868.2	62.8
0°-40°	3896.8	85.3
0°-60°	4485.2	98.2
0°-90°	4567.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4567.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4521	
5°	4423	413
15°	3816	1069
25°	3072	1386
35°	1631	1029
45°	535	434
55°	163	154
65°	59	60
75°	20	21
85°	0	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4520.7
2.5°	4507.6
5°	4422.9
7.5°	4298.8
10°	4149.0
12.5°	3985.7
15°	3816.0
17.5°	3627.0
20°	3457.4
22.5°	3281.3
25°	3072.4
27.5°	2785.4
30°	2446.3
32.5°	2048.2
35°	1630.8
37.5°	1278.6
40°	972.0
42.5°	724.0
45°	535.0
47.5°	391.4
50°	287.1
52.5°	215.2
55°	163.0
57.5°	123.8
60°	97.8
62.5°	71.8
65°	58.7
67.5°	45.6
70°	32.7
72.5°	26.0
75°	19.6
77.5°	13.1
80°	6.4
82.5°	6.4
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180°







(END OF REPORT)