

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: P578188

Luminaire Tested: **FLD6C-55-D010 FEU6C-X-90-40 F6X-M-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P578188
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-90-40 F6X-M-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 6LBMH TRIM

Light Source: -
Ballast/Driver: -

Summary

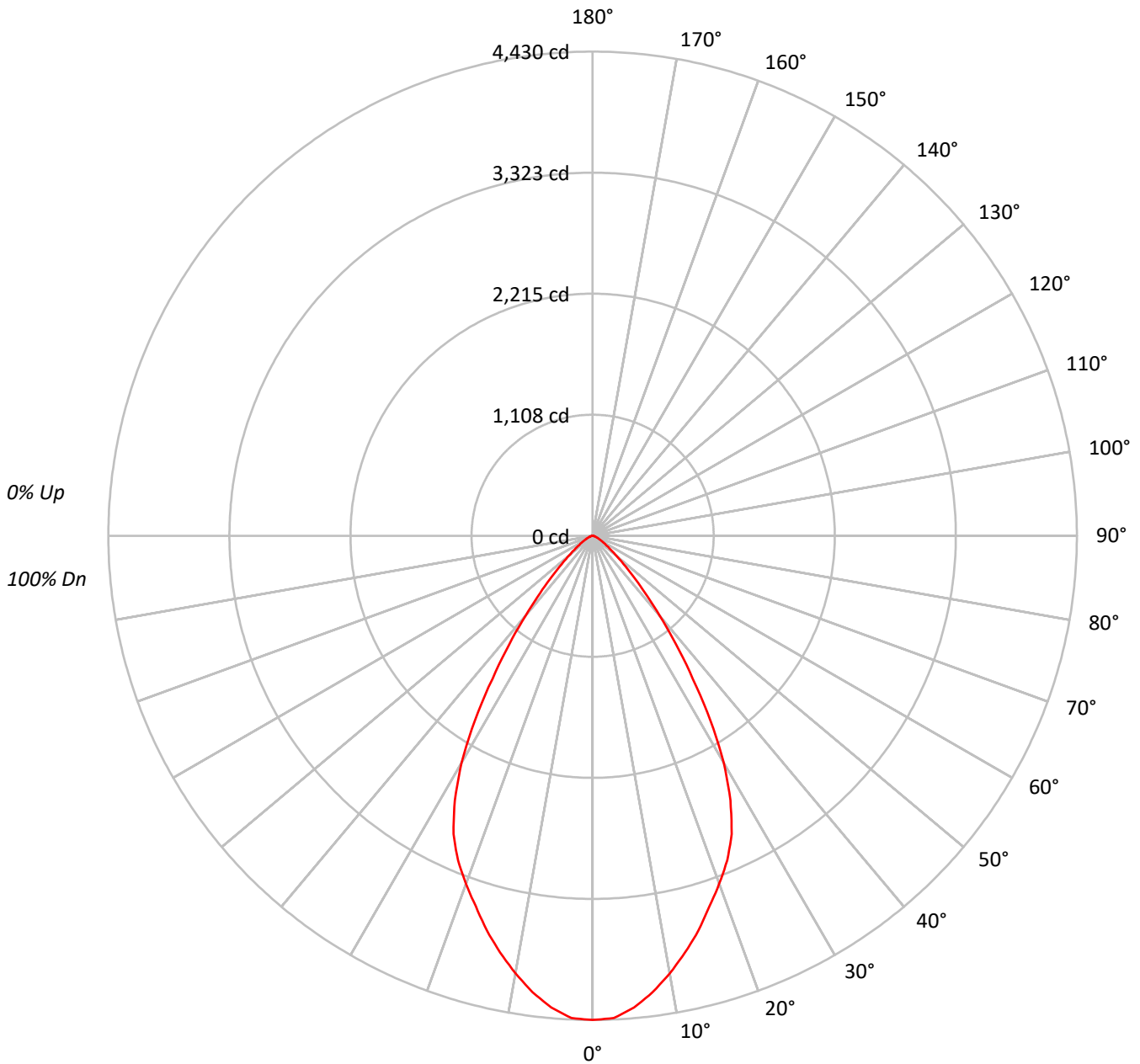
Lumens per Lamp: N/A
Luminaire Lumens: 4476.1 lumens
Efficiency: N/A
Efficacy: 70.0 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.93
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92																			
2	107	102	97	93	105	100	96	92	97	93	90	94	91	88	91	89	87	85																			
3	101	94	88	84	99	92	87	84	90	86	82	87	84	81	85	82	80	78																			
4	95	87	81	76	93	86	80	76	84	79	75	82	78	74	80	76	73	72																			
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66																			
6	85	75	69	64	83	75	69	64	73	68	64	72	67	63	70	66	63	61																			
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57																			
8	76	66	60	55	75	65	59	55	64	59	55	63	58	55	62	58	54	53																			
9	72	62	56	51	71	61	55	51	60	55	51	60	55	51	59	54	51	49																			
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	55	51	48	46																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	242837
5°	238487
10°	226304
15°	212215
20°	197633
25°	182103
30°	151732
35°	106943
40°	68156
45°	40648
50°	23991
55°	15263
60°	10515
65°	7459
70°	5129
75°	4067
80°	1989
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.0	9.0
10°-20°	1047.8	23.4
20°-30°	1357.6	30.3
30°-40°	1007.9	22.5
40°-50°	425.5	9.5
50°-60°	151.1	3.4
60°-70°	58.3	1.3
70°-80°	20.2	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°	2810.4	62.8
0°-40°	3818.4	85.3
0°-60°	4395.0	98.2
0°-90°	4476.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4476.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4430	
5°	4334	405
15°	3739	1048
25°	3011	1358
35°	1598	1008
45°	524	426
55°	160	151
65°	58	58
75°	19	20
85°	0	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4429.7
2.5°	4416.8
5°	4333.8
7.5°	4212.2
10°	4065.4
12.5°	3905.4
15°	3739.2
17.5°	3554.0
20°	3387.7
22.5°	3215.2
25°	3010.6
27.5°	2729.3
30°	2397.0
32.5°	2007.0
35°	1598.0
37.5°	1252.9
40°	952.4
42.5°	709.4
45°	524.3
47.5°	383.5
50°	281.3
52.5°	210.9
55°	159.7
57.5°	121.4
60°	95.9
62.5°	70.4
65°	57.5
67.5°	44.7
70°	32.0
72.5°	25.5
75°	19.2
77.5°	12.9
80°	6.3
82.5°	6.3
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)