

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: P579828

Luminaire Tested: **FLD6C-90-D010 FEU6C-X-90-27 F6X-N-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P579828
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P203666)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD6C-90-D010 FEU6C-X-90-27 F6X-N-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 6LBNH TRIM

Light Source: -
Ballast/Driver: -

Summary

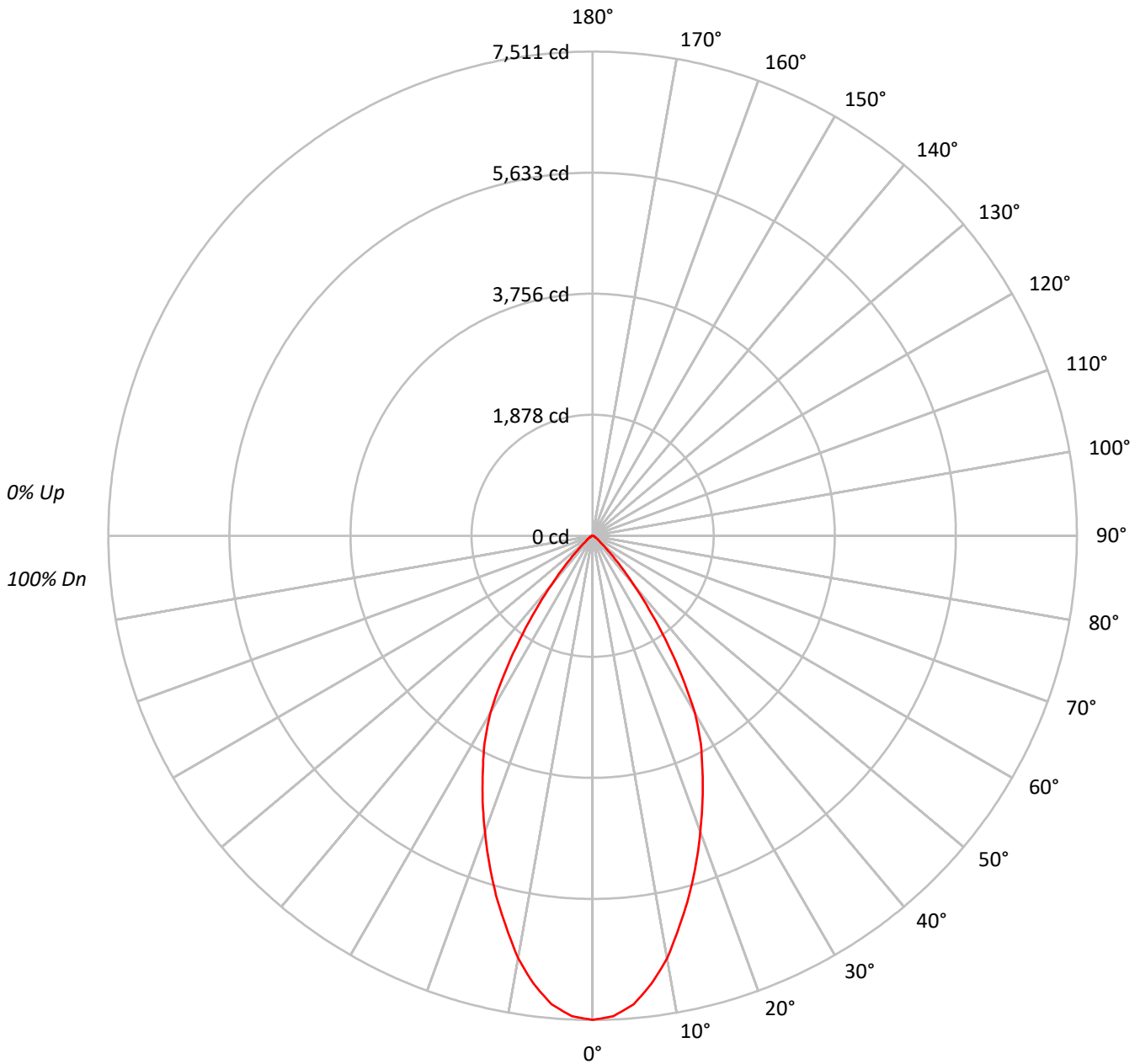
Lumens per Lamp: N/A
Luminaire Lumens: 5858.9 lumens
Efficiency: N/A
Efficacy: 60.3 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.78 / 0.84
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 97.1
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				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	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	111	108	106	111	109	106	104	104	103	101	101	99	98	97	96	95	93			
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87			
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81			
4	97	90	84	80	95	89	83	79	86	82	78	84	81	78	83	79	77	75			
5	92	84	78	74	91	83	78	73	81	76	73	80	75	72	78	74	72	70			
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	65			
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61			
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58			
9	76	66	60	56	75	66	60	56	65	59	56	64	59	56	63	59	55	54			
10	72	62	57	53	71	62	57	53	61	56	53	60	56	52	60	55	52	51			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	411732
5°	401545
10°	370512
15°	328033
20°	284820
25°	243619
30°	200854
35°	132267
40°	71105
45°	31476
50°	12767
55°	9204
60°	5844
65°	4177
70°	3446
75°	2266
80°	3378
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	675.4	11.5
10°-20°	1610.6	27.5
20°-30°	1845.2	31.5
30°-40°	1239.7	21.2
40°-50°	354.2	6.0
50°-60°	86.7	1.5
60°-70°	32.9	0.6
70°-80°	12.7	0.2
80°-90°	1.4	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°	4131.2	70.5
0°-40°	5370.9	91.7
0°-60°	5811.8	99.2
0°-90°	5858.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5858.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7511	
5°	7297	675
15°	5780	1611
25°	4028	1845
35°	1976	1240
45°	406	354
55°	96	87
65°	32	33
75°	11	13
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	7510.6
2.5°	7457.3
5°	7296.9
7.5°	7008.3
10°	6656.0
12.5°	6207.0
15°	5779.9
17.5°	5331.3
20°	4882.2
22.5°	4455.1
25°	4027.6
27.5°	3632.3
30°	3173.0
32.5°	2563.9
35°	1976.4
37.5°	1442.2
40°	993.6
42.5°	651.6
45°	406.0
47.5°	245.6
50°	149.7
52.5°	117.4
55°	96.3
57.5°	74.8
60°	53.3
62.5°	42.6
65°	32.2
67.5°	21.5
70°	21.5
72.5°	10.7
75°	10.7
77.5°	10.7
80°	10.7
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)