

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: P578448

Luminaire Tested: **FLD6C-60-D010 FEU6C-X-90-35 F6X-N-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P578448
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-60-D010 FEU6C-X-90-35 F6X-N-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 3500K, 90 CRI LEDS, 6LBNH TRIM

Light Source: -
Ballast/Driver: -

Summary

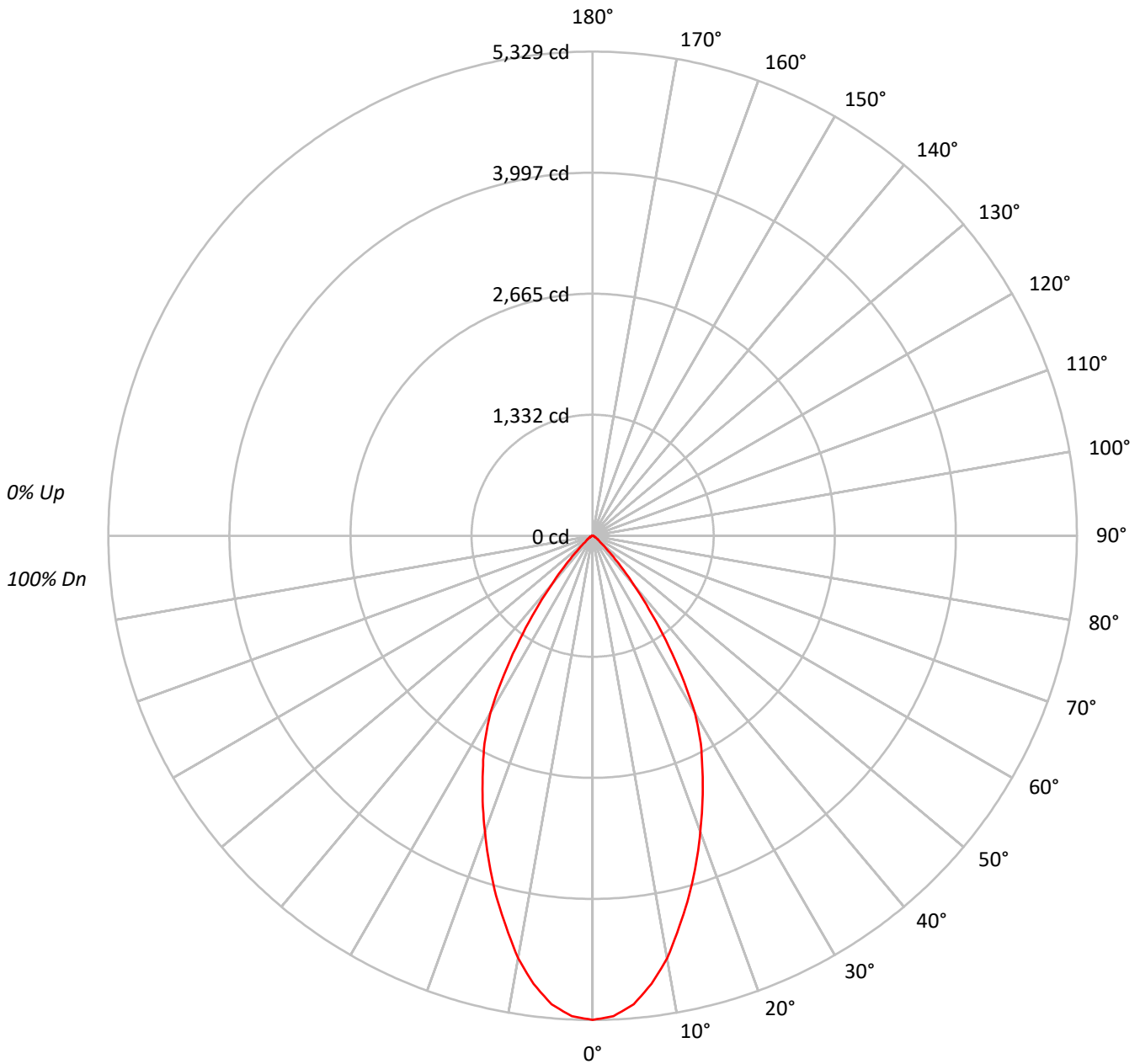
Lumens per Lamp: N/A
Luminaire Lumens: 4156.9 lumens
Efficiency: N/A
Efficacy: 57.7 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.78 / 0.84
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 72
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°	292131
5°	284899
10°	262882
15°	232743
20°	202084
25°	172849
30°	142503
35°	93846
40°	50445
45°	22336
50°	9057
55°	6528
60°	4144
65°	2970
70°	2436
75°	1610
80°	2399
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	479.2	11.5
10°-20°	1142.8	27.5
20°-30°	1309.2	31.5
30°-40°	879.6	21.2
40°-50°	251.3	6.0
50°-60°	61.5	1.5
60°-70°	23.4	0.6
70°-80°	9.0	0.2
80°-90°	1.0	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°	2931.1	70.5
0°-40°	3810.7	91.7
0°-60°	4123.5	99.2
0°-90°	4156.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4156.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5329	
5°	5177	479
15°	4101	1143
25°	2858	1309
35°	1402	880
45°	288	251
55°	68	62
65°	23	23
75°	8	9
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5328.9
2.5°	5291.0
5°	5177.2
7.5°	4972.4
10°	4722.5
12.5°	4403.9
15°	4100.9
17.5°	3782.6
20°	3464.0
22.5°	3160.9
25°	2857.6
27.5°	2577.2
30°	2251.2
32.5°	1819.1
35°	1402.3
37.5°	1023.2
40°	704.9
42.5°	462.3
45°	288.1
47.5°	174.3
50°	106.2
52.5°	83.3
55°	68.3
57.5°	53.1
60°	37.8
62.5°	30.2
65°	22.9
67.5°	15.2
70°	15.2
72.5°	7.6
75°	7.6
77.5°	7.6
80°	7.6
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)