

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: P576848

Luminaire Tested: **FLD6C-35-D010 FEU6C-X-90-27 F6X-W-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P576848
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P202739)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD6C-35-D010 FEU6C-X-90-27 F6X-W-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 6LBWH TRIM

Light Source: -
Ballast/Driver: -

Summary

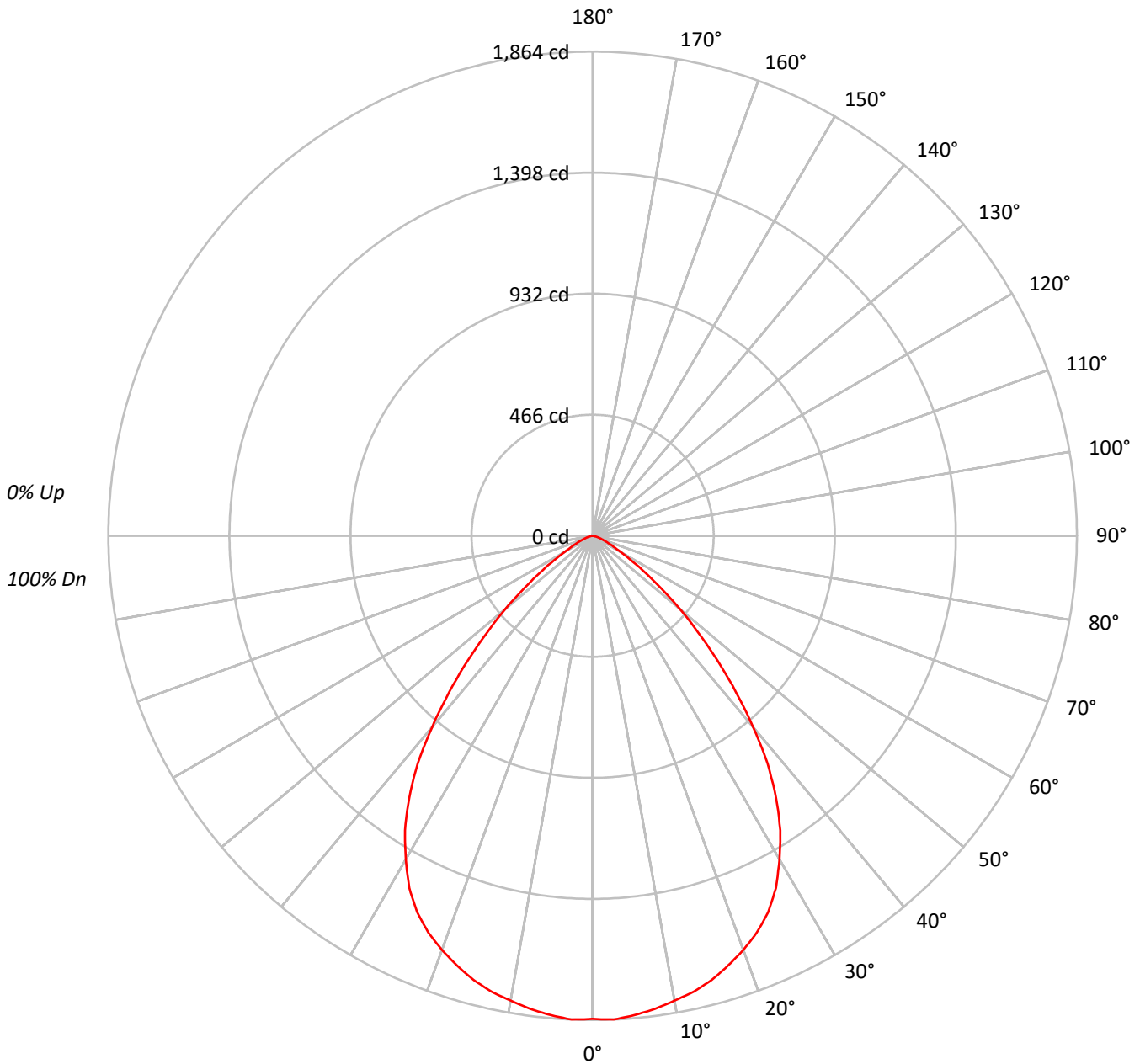
Lumens per Lamp: N/A
Luminaire Lumens: 3016.0 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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	112	109	106	103	110	107	104	101	103	100	98	99	97	95	95	94	93	91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81			
3	98	90	84	79	96	89	83	78	86	81	77	83	79	76	81	78	75	73			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65			
5	86	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59			
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53			
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49			
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44			
9	66	55	48	43	65	54	47	43	53	47	43	52	47	42	51	46	42	41			
10	62	51	44	40	61	50	44	39	50	43	39	49	43	39	48	43	39	38			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	101976
5°	101937
10°	101156
15°	100477
20°	98948
25°	96683
30°	91033
35°	82389
40°	68793
45°	52711
50°	37338
55°	23540
60°	13277
65°	8613
70°	5626
75°	4130
80°	2494
85°	2453



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.7	5.8
10°-20°	498.5	16.5
20°-30°	731.0	24.2
30°-40°	760.7	25.2
40°-50°	526.3	17.5
50°-60°	229.2	7.6
60°-70°	70.3	2.3
70°-80°	21.1	0.7
80°-90°	3.2	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°	1405.2	46.6
0°-40°	2165.9	71.8
0°-60°	2921.4	96.9
0°-90°	3016.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3016.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1860	
5°	1852	176
15°	1770	499
25°	1598	731
35°	1231	761
45°	680	526
55°	246	229
65°	66	70
75°	20	21
85°	4	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1860.2
2.5°	1864.1
5°	1852.4
7.5°	1836.8
10°	1817.2
12.5°	1797.6
15°	1770.4
17.5°	1735.1
20°	1696.1
22.5°	1653.1
25°	1598.4
27.5°	1528.1
30°	1438.1
32.5°	1344.3
35°	1231.1
37.5°	1106.0
40°	961.3
42.5°	816.8
45°	679.9
47.5°	551.0
50°	437.8
52.5°	332.2
55°	246.3
57.5°	175.9
60°	121.1
62.5°	89.9
65°	66.4
67.5°	50.9
70°	35.1
72.5°	27.4
75°	19.5
77.5°	11.7
80°	7.9
82.5°	3.9
85°	3.9
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)