

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: P646220

Luminaire Tested: **FLDSQ4C50D010 FEU4C509030 F4LC-SQ-H-D2W**

Issue Date: 12/13/2022

Test Information

Test Method: LM-79-08
Report Number: P646220
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P207151)
Test Lab: INNOVATION CENTER
Issue Date: 12/13/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLDSQ4C50D010 FEU4C509030 F4LC-SQ-H-D2W
Description: 4 INCH 5000 LUMEN FAIL-SAFE LED DOWNLIGHT WITH, 3000K, 90CRI LEDS AND F4LC-SQ TRIM WITH H FINISH, DIM TO WARM
Light Source: -
Ballast/Driver: -

Summary

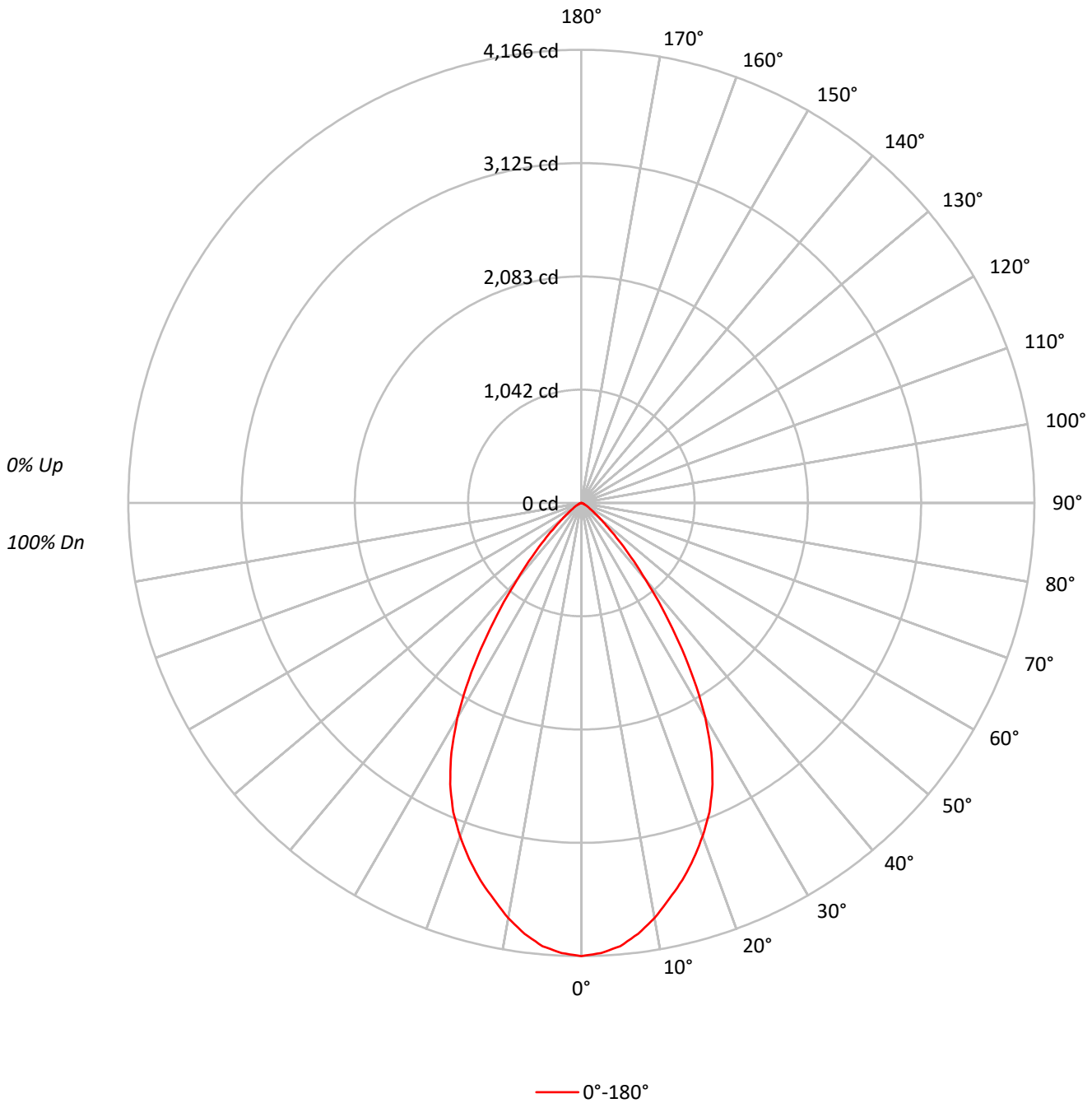
Lumens per Lamp: N/A
Luminaire Lumens: 4201.9 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
Input Voltage (V):
Input Current (Ain): 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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	113	110	108	105	111	108	106	104	104	102	100		100	99	97		97	96	95	93
2	107	102	98	94	105	100	96	93	97	94	91		94	91	89		91	89	87	85
3	101	94	89	85	99	93	88	84	90	86	83		88	84	82		86	83	80	79
4	96	88	82	77	94	86	81	77	84	80	76		82	78	75		80	77	74	73
5	90	82	75	71	89	81	75	70	79	74	70		77	73	69		75	72	69	67
6	86	76	70	65	84	75	69	65	74	68	64		72	68	64		71	67	64	62
7	81	71	65	60	80	70	64	60	69	64	60		68	63	59		67	62	59	58
8	77	67	60	56	75	66	60	56	65	59	56		64	59	55		63	58	55	54
9	73	63	56	52	72	62	56	52	61	56	52		60	55	52		59	55	52	50
10	69	59	53	49	68	59	53	49	58	52	49		57	52	48		56	52	48	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	402021
5°	396186
10°	379633
15°	358565
20°	334700
25°	303826
30°	253671
35°	183766
40°	115037
45°	65758
50°	34285
55°	19211
60°	12235
65°	7237
70°	5360
75°	2349
80°	3501
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.4	9.1
10°-20°	1005.8	23.9
20°-30°	1292.6	30.8
30°-40°	972.5	23.1
40°-50°	390.6	9.3
50°-60°	111.0	2.6
60°-70°	35.1	0.8
70°-80°	10.0	0.2
80°-90°	0.9	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°	2681.8	63.8
0°-40°	3654.3	87.0
0°-60°	4156.0	98.9
0°-90°	4201.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4201.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4166	
5°	4090	383
15°	3590	1006
25°	2854	1293
35°	1560	973
45°	482	391
55°	114	111
65°	32	35
75°	6	10
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4166.5
2.5°	4141.2
5°	4090.4
7.5°	3995.2
10°	3874.7
12.5°	3729.1
15°	3589.5
17.5°	3430.9
20°	3259.6
22.5°	3075.9
25°	2853.8
27.5°	2587.4
30°	2276.8
32.5°	1927.8
35°	1560.1
37.5°	1217.5
40°	913.3
42.5°	672.2
45°	481.9
47.5°	329.9
50°	228.4
52.5°	158.6
55°	114.2
57.5°	82.5
60°	63.4
62.5°	44.4
65°	31.7
67.5°	25.4
70°	19.0
72.5°	12.7
75°	6.3
77.5°	6.3
80°	6.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)