

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: P645896

Luminaire Tested: **FLDSQ4C25D010 FEU4C259030 F4LC-SQ-H-D2W**

Issue Date: 12/13/2022

Test Information

Test Method: LM-79-08
Report Number: P645896
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: FLDSQ4C25D010 FEU4C259030 F4LC-SQ-H-D2W
Description: 4 INCH 2500 LUMEN FAIL-SAFE LED DOWNLIGHT WITH, 3000K, 90CRI LEDS AND F4LC-SQ TRIM WITH H FINISH, DIM TO WARM
Light Source: -
Ballast/Driver: -

Summary

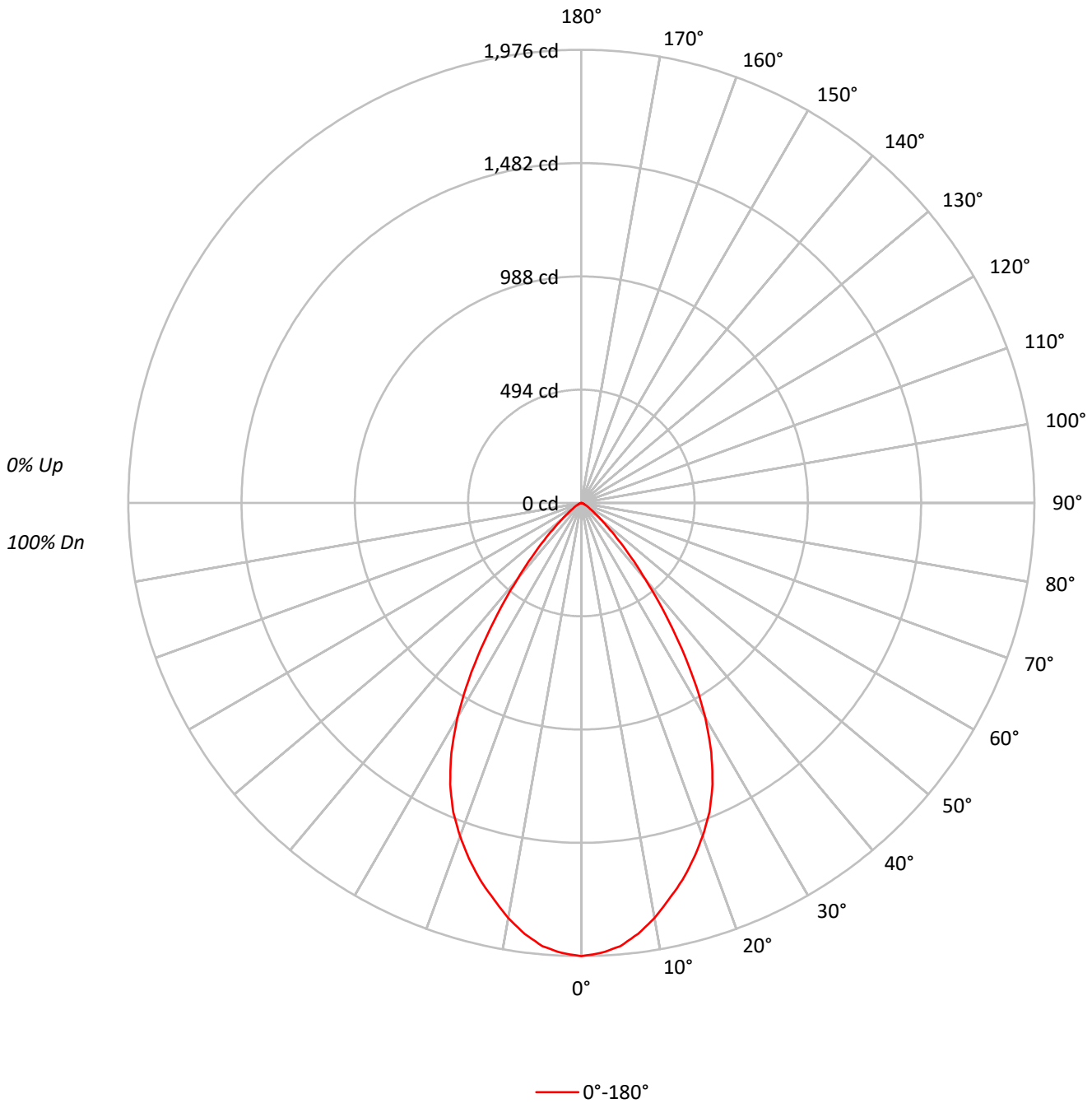
Lumens per Lamp: N/A
Luminaire Lumens: 1993.0 lumens
Efficiency: N/A
Efficacy: 63.3 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
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°	190681
5°	187913
10°	180063
15°	170067
20°	158745
25°	144109
30°	120318
35°	87165
40°	54565
45°	31194
50°	16257
55°	9118
60°	5809
65°	3425
70°	2539
75°	1118
80°	1667
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.8	9.1
10°-20°	477.1	23.9
20°-30°	613.1	30.8
30°-40°	461.3	23.1
40°-50°	185.3	9.3
50°-60°	52.7	2.6
60°-70°	16.7	0.8
70°-80°	4.7	0.2
80°-90°	0.4	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°	1272.0	63.8
0°-40°	1733.3	87.0
0°-60°	1971.2	98.9
0°-90°	1993.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1993.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1976	
5°	1940	182
15°	1702	477
25°	1354	613
35°	740	461
45°	229	185
55°	54	53
65°	15	17
75°	3	5
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1976.2
2.5°	1964.1
5°	1940.1
7.5°	1894.9
10°	1837.8
12.5°	1768.7
15°	1702.5
17.5°	1627.3
20°	1546.0
22.5°	1458.9
25°	1353.6
27.5°	1227.2
30°	1079.9
32.5°	914.4
35°	740.0
37.5°	577.5
40°	433.2
42.5°	318.8
45°	228.6
47.5°	156.5
50°	108.3
52.5°	75.2
55°	54.2
57.5°	39.1
60°	30.1
62.5°	21.1
65°	15.0
67.5°	12.0
70°	9.0
72.5°	6.0
75°	3.0
77.5°	3.0
80°	3.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)