

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: P646274

Luminaire Tested: **FLDSQ4C55D010 FEU4C559030 F4LC-SQ-H-D2W**

Issue Date: 12/13/2022

Test Information

Test Method: LM-79-08
Report Number: P646274
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: FLDSQ4C55D010 FEU4C559030 F4LC-SQ-H-D2W
Description: 4 INCH 5500 LUMEN FAIL-SAFE LED DOWNLIGHT WITH, 3000K, 90CRI LEDS AND F4LC-SQ TRIM WITH H FINISH, DIM TO WARM
Light Source: -
Ballast/Driver: -

Summary

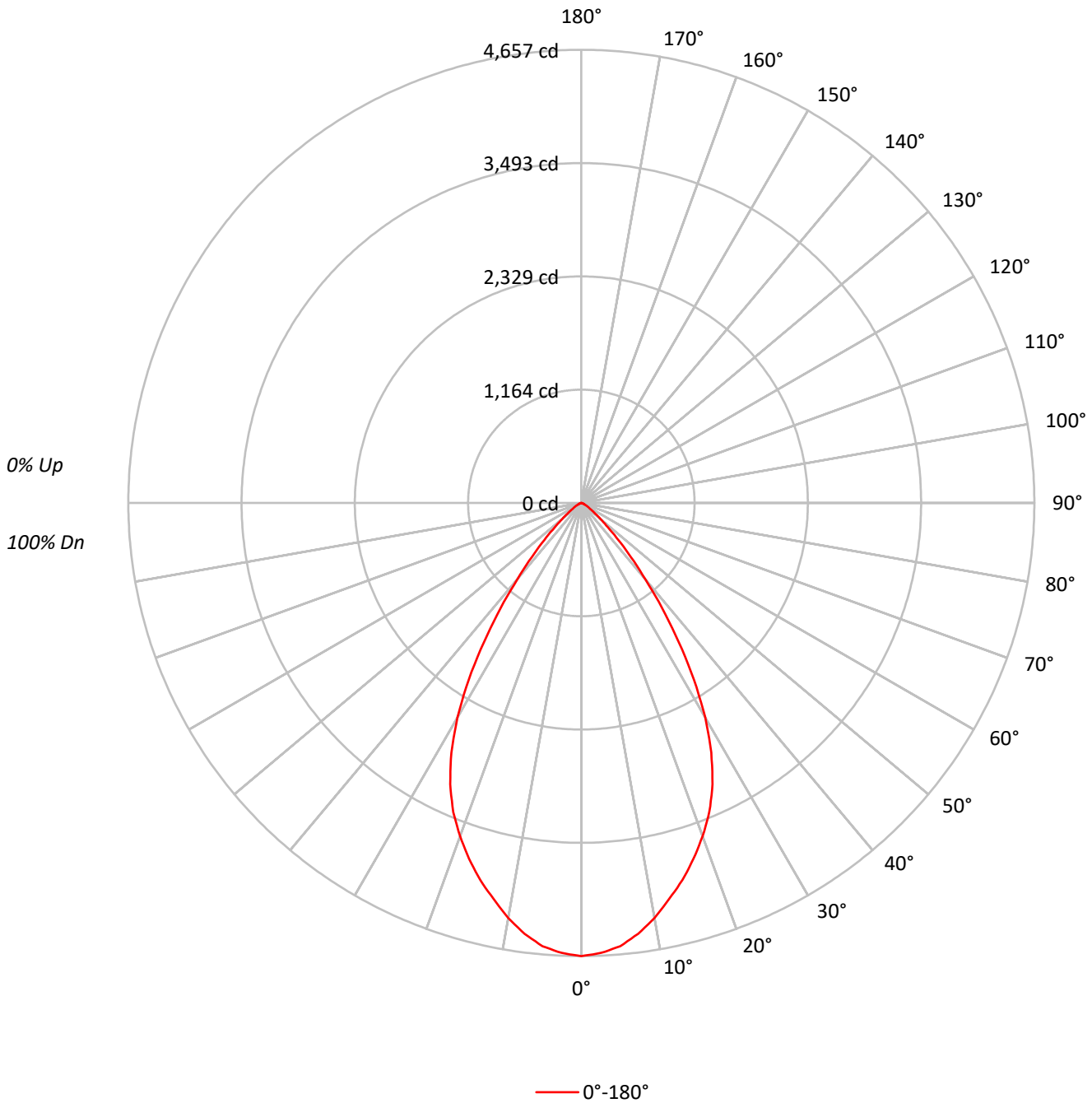
Lumens per Lamp: N/A
Luminaire Lumens: 4697.0 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 63.9
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°	449387
5°	442861
10°	424350
15°	400799
20°	374130
25°	339619
30°	283553
35°	205416
40°	128590
45°	73509
50°	38323
55°	21482
60°	13682
65°	8105
70°	6009
75°	2647
80°	3945
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.5	9.1
10°-20°	1124.3	23.9
20°-30°	1444.9	30.8
30°-40°	1087.1	23.1
40°-50°	436.6	9.3
50°-60°	124.1	2.6
60°-70°	39.3	0.8
70°-80°	11.2	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°	2997.7	63.8
0°-40°	4084.8	87.0
0°-60°	4645.6	98.9
0°-90°	4697.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4697.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4657	
5°	4572	429
15°	4012	1124
25°	3190	1445
35°	1744	1087
45°	539	437
55°	128	124
65°	36	39
75°	7	11
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4657.4
2.5°	4629.0
5°	4572.3
7.5°	4465.9
10°	4331.1
12.5°	4168.4
15°	4012.3
17.5°	3835.0
20°	3643.6
22.5°	3438.2
25°	3190.0
27.5°	2892.2
30°	2545.0
32.5°	2154.9
35°	1743.9
37.5°	1361.0
40°	1020.9
42.5°	751.4
45°	538.7
47.5°	368.8
50°	255.3
52.5°	177.3
55°	127.7
57.5°	92.2
60°	70.9
62.5°	49.6
65°	35.5
67.5°	28.4
70°	21.3
72.5°	14.2
75°	7.1
77.5°	7.1
80°	7.1
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)