

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: P646328

Luminaire Tested: **FLDSQ4C60D010 FEU4C609030 F4LC-SQ-H-D2W**

Issue Date: 12/13/2022

Test Information

Test Method: LM-79-08
Report Number: P646328
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: FLDSQ4C60D010 FEU4C609030 F4LC-SQ-H-D2W
Description: 4 INCH 6000 LUMEN FAIL-SAFE LED DOWNLIGHT WITH, 3000K, 90CRI LEDS AND F4LC-SQ TRIM WITH H FINISH, DIM TO WARM
Light Source: -
Ballast/Driver: -

Summary

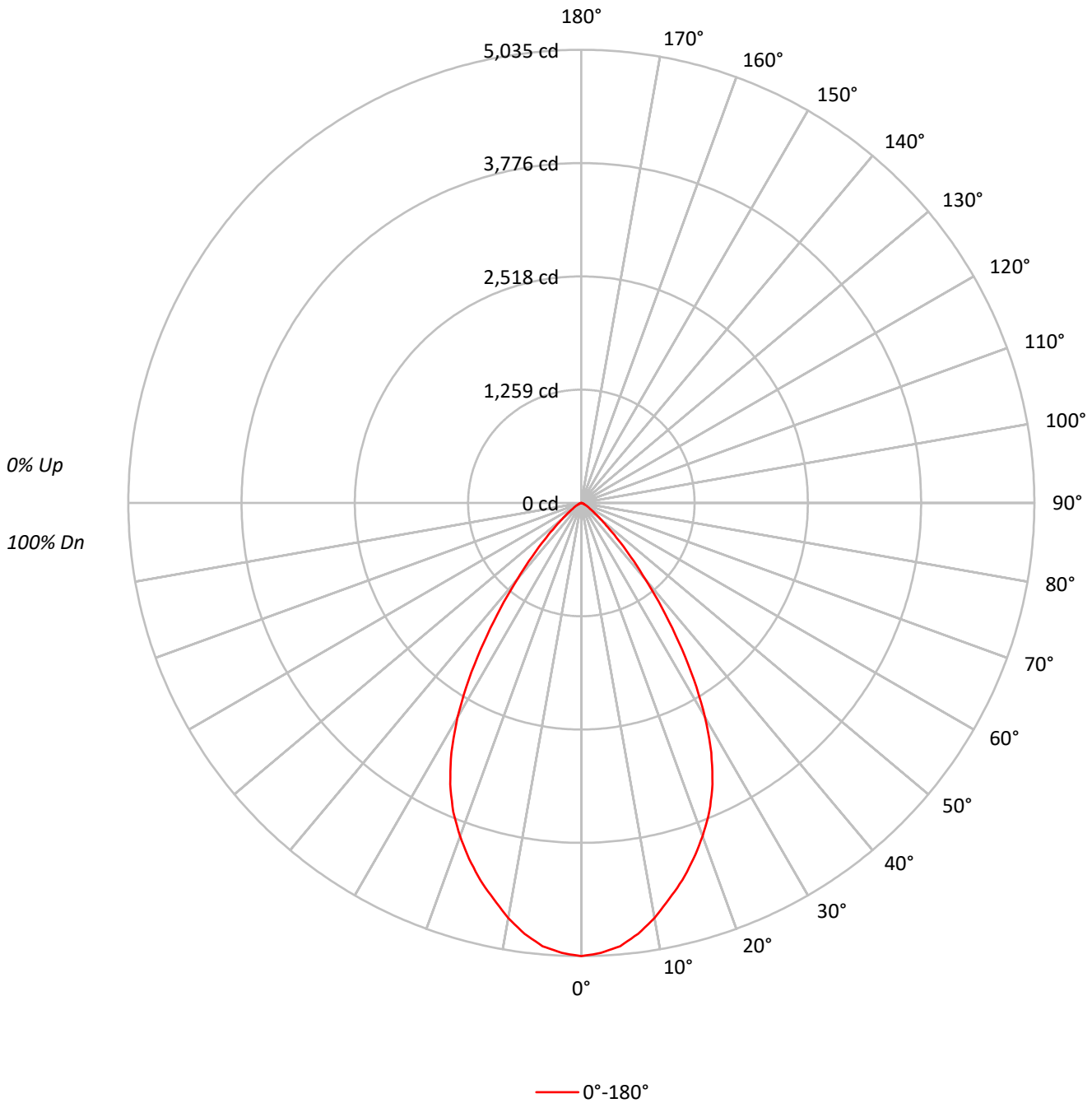
Lumens per Lamp: N/A
Luminaire Lumens: 5078.0 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 72
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°	485841
5°	478776
10°	458779
15°	433314
20°	404472
25°	367172
30°	306549
35°	222084
40°	139019
45°	79458
50°	41430
55°	23215
60°	14801
65°	8744
70°	6489
75°	2871
80°	4279
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	463.3	9.1
10°-20°	1215.5	23.9
20°-30°	1562.1	30.8
30°-40°	1175.3	23.1
40°-50°	472.0	9.3
50°-60°	134.2	2.6
60°-70°	42.5	0.8
70°-80°	12.1	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°	3240.9	63.8
0°-40°	4416.2	87.0
0°-60°	5022.4	98.9
0°-90°	5078.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5078.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5035	
5°	4943	463
15°	4338	1215
25°	3449	1562
35°	1885	1175
45°	582	472
55°	138	134
65°	38	42
75°	8	12
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5035.2
2.5°	5004.5
5°	4943.1
7.5°	4828.1
10°	4682.5
12.5°	4506.5
15°	4337.8
17.5°	4146.1
20°	3939.1
22.5°	3717.1
25°	3448.8
27.5°	3126.8
30°	2751.4
32.5°	2329.7
35°	1885.4
37.5°	1471.4
40°	1103.7
42.5°	812.4
45°	582.3
47.5°	398.7
50°	276.0
52.5°	191.7
55°	138.0
57.5°	99.7
60°	76.7
62.5°	53.7
65°	38.3
67.5°	30.7
70°	23.0
72.5°	15.3
75°	7.7
77.5°	7.7
80°	7.7
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)