

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: P575958

Luminaire Tested: **FLD6C-20-D010 FEU6C-X-90-27 F6X-W-X-LI**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P575958
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205209)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD6C-20-D010 FEU6C-X-90-27 F6X-W-X-LI
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 6LBWLI TRIM

Light Source: -
Ballast/Driver: -

Summary

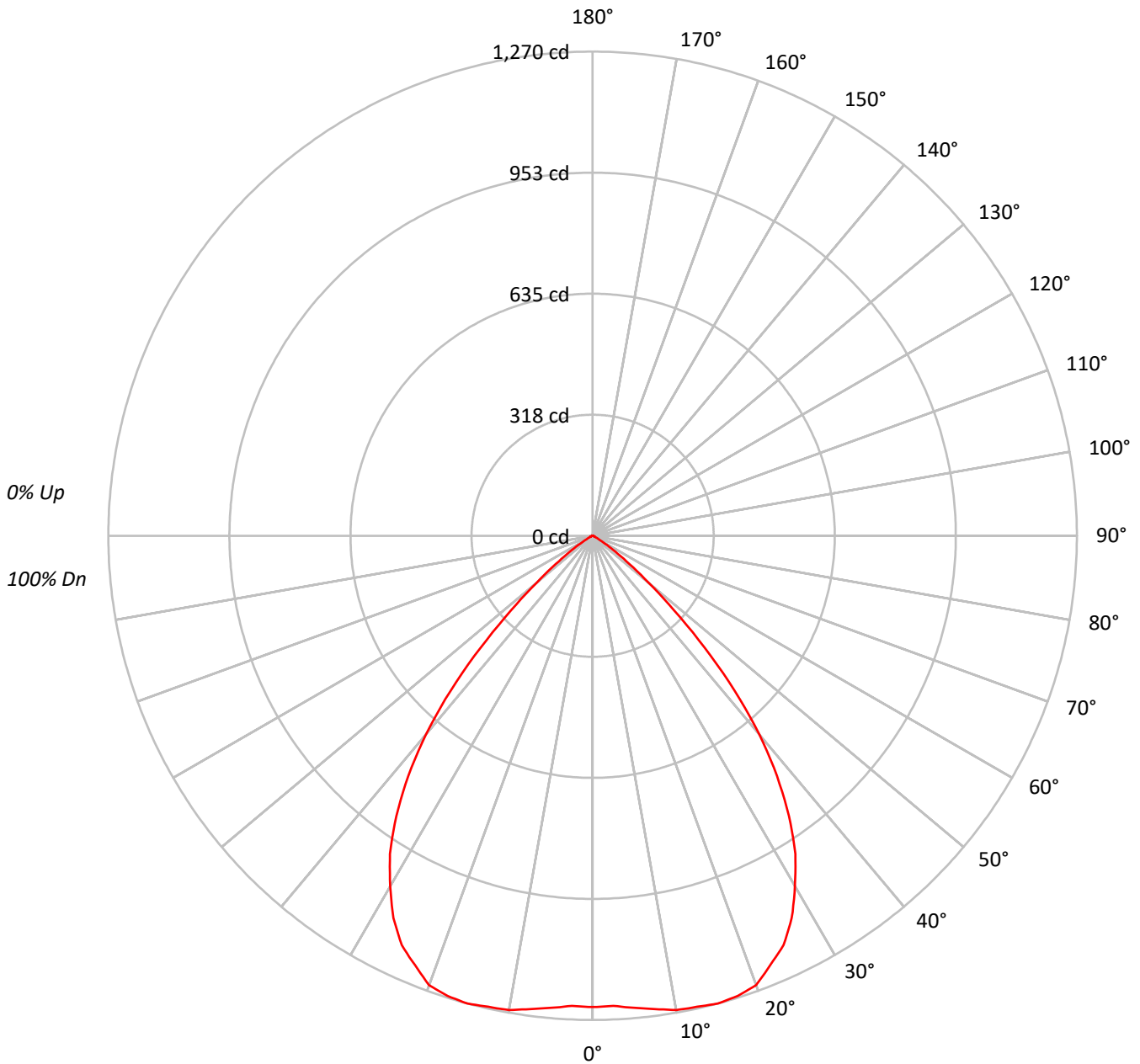
Lumens per Lamp: N/A
Luminaire Lumens: 1979.0 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.18
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
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									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	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													100															
1	113	110	107	104	110	107	105	103	103	101	99	100	98	97	96	95	94	92													92															
2	106	101	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83													83															
3	100	92	87	82	97	91	86	81	88	84	80	86	82	79	83	80	77	76													76															
4	93	85	78	73	92	84	78	73	81	76	72	79	75	71	77	74	70	69													69															
5	88	78	71	66	86	77	71	66	75	70	65	73	69	65	72	68	64	63													63															
6	82	72	65	60	81	71	65	60	70	64	59	68	63	59	67	62	59	57													57															
7	77	67	60	55	76	66	59	55	65	59	54	63	58	54	62	57	54	52													52															
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48													48															
9	69	57	51	46	67	57	50	46	56	50	46	55	50	46	54	49	46	44													44															
10	65	54	47	43	64	53	47	42	52	46	42	51	46	42	51	46	42	41													41															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	67774
5°	68402
10°	70317
15°	72078
20°	73168
25°	71659
30°	67181
35°	60063
40°	48648
45°	32182
50°	16264
55°	6862
60°	2215
65°	869
70°	721
75°	487
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.3	6.0
10°-20°	358.5	18.1
20°-30°	540.4	27.3
30°-40°	553.1	27.9
40°-50°	322.2	16.3
50°-60°	74.1	3.7
60°-70°	9.1	0.5
70°-80°	2.4	0.1
80°-90°	0.0	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°	1018.1	51.4
0°-40°	1571.3	79.4
0°-60°	1967.5	99.4
0°-90°	1979.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1979.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1236	
5°	1243	119
15°	1270	358
25°	1185	540
35°	898	553
45°	415	322
55°	72	74
65°	7	9
75°	2	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1236.3
2.5°	1234.1
5°	1243.0
7.5°	1252.0
10°	1263.2
12.5°	1265.5
15°	1270.0
17.5°	1265.5
20°	1254.2
22.5°	1218.3
25°	1184.7
27.5°	1130.9
30°	1061.3
32.5°	989.5
35°	897.5
37.5°	794.3
40°	679.8
42.5°	552.0
45°	415.1
47.5°	289.4
50°	190.7
52.5°	121.2
55°	71.8
57.5°	38.2
60°	20.2
62.5°	11.2
65°	6.7
67.5°	6.7
70°	4.5
72.5°	2.3
75°	2.3
77.5°	2.3
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180°







(END OF REPORT)