

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: P577638

Luminaire Tested: **FLD6C-45-D010 FEU6C-X-90-40 F6X-W-X-LI**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P577638
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-45-D010 FEU6C-X-90-40 F6X-W-X-LI
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 6LBWLI TRIM

Light Source: -
Ballast/Driver: -

Summary

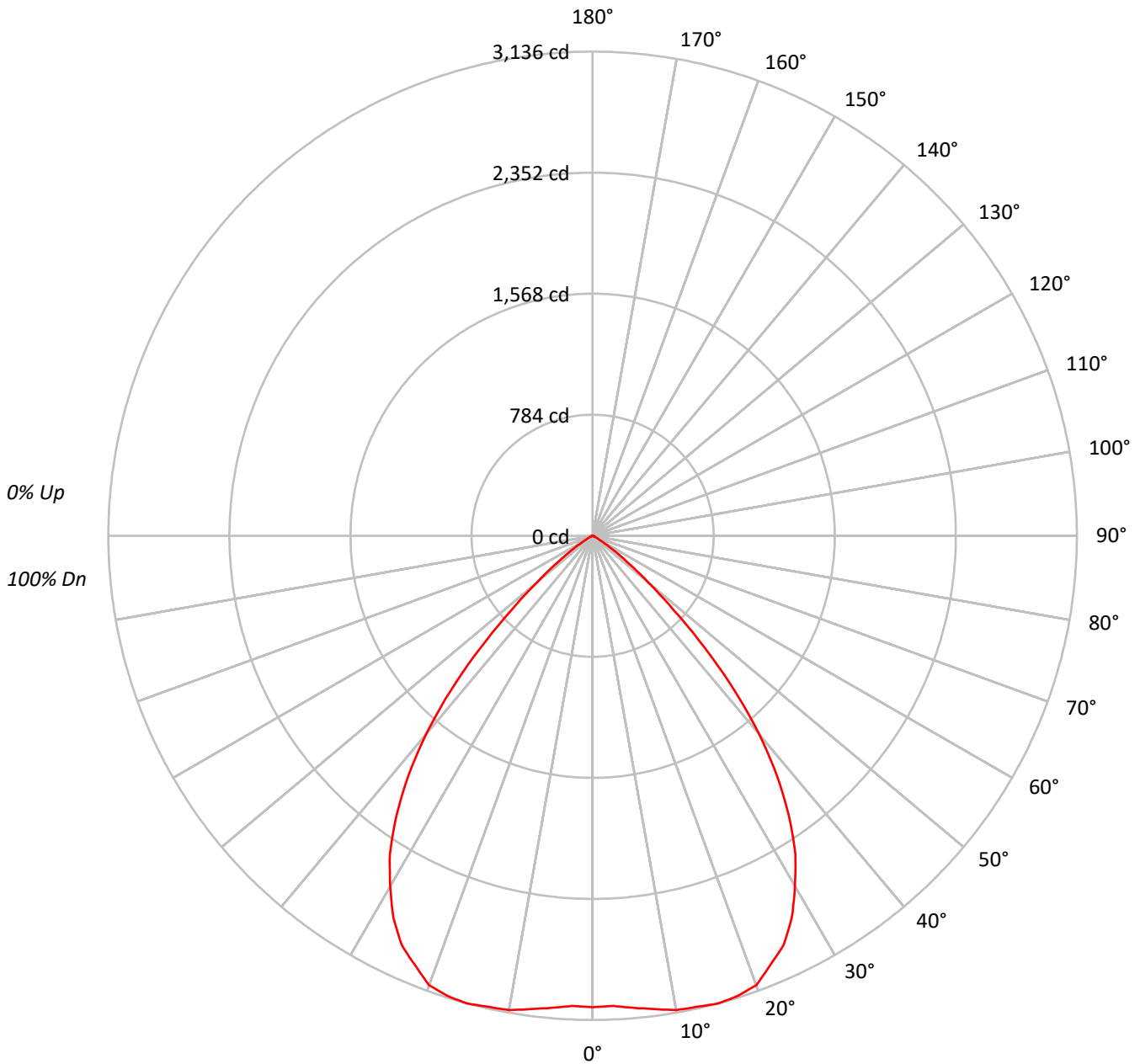
Lumens per Lamp: N/A
Luminaire Lumens: 4887.0 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.18
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
Input Voltage (V): NR
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	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	107	104	110	107	105	103	103	101	99	100	98	97	96	95	94	92			
2	106	101	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83			
3	100	92	87	82	97	91	86	81	88	84	80	86	82	79	83	80	77	76			
4	93	85	78	73	92	84	78	73	81	76	72	79	75	71	77	74	70	69			
5	88	78	71	66	86	77	71	66	75	70	65	73	69	65	72	68	64	63			
6	82	72	65	60	81	71	65	60	70	64	59	68	63	59	67	62	59	57			
7	77	67	60	55	76	66	59	55	65	59	54	63	58	54	62	57	54	52			
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			
9	69	57	51	46	67	57	50	46	56	50	46	55	50	46	54	49	46	44			
10	65	54	47	43	64	53	47	42	52	46	42	51	46	42	51	46	42	41			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	167366
5°	168919
10°	173644
15°	177986
20°	180692
25°	176956
30°	165905
35°	148328
40°	120139
45°	79473
50°	40169
55°	16946
60°	5460
65°	2140
70°	1795
75°	1186
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.5	6.0
10°-20°	885.3	18.1
20°-30°	1334.5	27.3
30°-40°	1365.9	27.9
40°-50°	795.7	16.3
50°-60°	182.8	3.7
60°-70°	22.4	0.5
70°-80°	5.9	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°	2514.2	51.4
0°-40°	3880.1	79.4
0°-60°	4858.7	99.4
0°-90°	4887.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4887.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3053	
5°	3070	295
15°	3136	885
25°	2926	1334
35°	2216	1366
45°	1025	796
55°	177	183
65°	16	22
75°	6	6
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3053.0
2.5°	3047.5
5°	3069.6
7.5°	3091.7
10°	3119.4
12.5°	3125.0
15°	3136.1
17.5°	3125.0
20°	3097.3
22.5°	3008.6
25°	2925.5
27.5°	2792.6
30°	2620.9
32.5°	2443.5
35°	2216.4
37.5°	1961.4
40°	1678.8
42.5°	1363.0
45°	1025.1
47.5°	714.7
50°	471.0
52.5°	299.3
55°	177.3
57.5°	94.2
60°	49.8
62.5°	27.7
65°	16.5
67.5°	16.5
70°	11.2
72.5°	5.6
75°	5.6
77.5°	5.6
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)