

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: P578288

Luminaire Tested: **FLD6C-55-D010 FEU6C-X-90-50 F6X-W-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P578288
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P202739)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD6C-55-D010 FEU6C-X-90-50 F6X-W-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 6LBWH TRIM

Light Source: -
Ballast/Driver: -

Summary

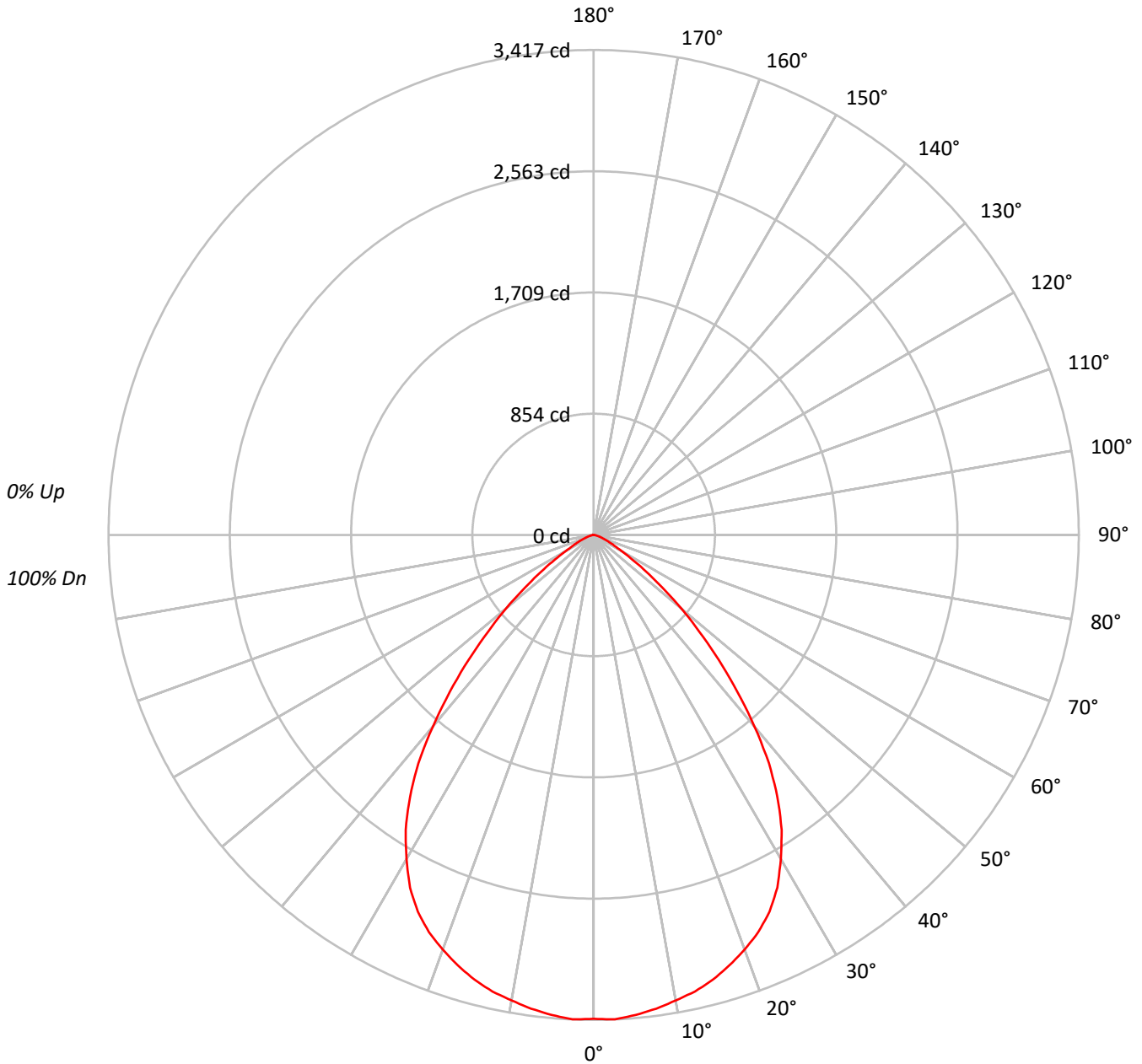
Lumens per Lamp: N/A
Luminaire Lumens: 5528.0 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 63.9
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	112	109	106	103	110	107	104	101	103	100	98	99	97	95	95	94	93	91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81			
3	98	90	84	79	96	89	83	78	86	81	77	83	79	76	81	78	75	73			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65			
5	86	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59			
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53			
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49			
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44			
9	66	55	48	43	65	54	47	43	53	47	43	52	47	42	51	46	42	41			
10	62	51	44	40	61	50	44	39	50	43	39	49	43	39	48	43	39	38			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	186909
5°	186842
10°	185406
15°	184161
20°	181357
25°	177216
30°	166861
35°	151005
40°	126093
45°	96622
50°	68424
55°	43143
60°	24340
65°	15799
70°	10322
75°	7583
80°	4546
85°	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.0	5.8
10°-20°	913.8	16.5
20°-30°	1339.8	24.2
30°-40°	1394.4	25.2
40°-50°	964.7	17.5
50°-60°	420.1	7.6
60°-70°	128.8	2.3
70°-80°	38.6	0.7
80°-90°	5.9	0.1
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°	2575.6	46.6
0°-40°	3970.0	71.8
0°-60°	5354.7	96.9
0°-90°	5528.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5528.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3410	
5°	3395	322
15°	3245	914
25°	2930	1340
35°	2256	1394
45°	1246	965
55°	451	420
65°	122	129
75°	36	39
85°	7	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3409.5
2.5°	3416.7
5°	3395.3
7.5°	3366.7
10°	3330.7
12.5°	3294.9
15°	3244.9
17.5°	3180.3
20°	3108.7
22.5°	3029.9
25°	2929.8
27.5°	2800.8
30°	2636.0
32.5°	2464.0
35°	2256.4
37.5°	2027.2
40°	1762.0
42.5°	1497.1
45°	1246.3
47.5°	1009.9
50°	802.3
52.5°	609.0
55°	451.4
57.5°	322.4
60°	222.0
62.5°	164.8
65°	121.8
67.5°	93.2
70°	64.4
72.5°	50.2
75°	35.8
77.5°	21.4
80°	14.4
82.5°	7.2
85°	7.2
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)