

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: P277657

Luminaire Tested: **FLD4B15D010 EU4B1/28040 F4LBM1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277657
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35269)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD4B15D010 EU4B1/28040 F4LBM1LI
Description: FAILSAFE 4 INCH RECESSED LED DOWNLIGHT
4 INCH LED SEALED MEDICAL, MEDIUM (50DEGREE BEAM), SPECULAR CLEAR
Light Source: (1) 4000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1453.0 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 0.71 / 0.76
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

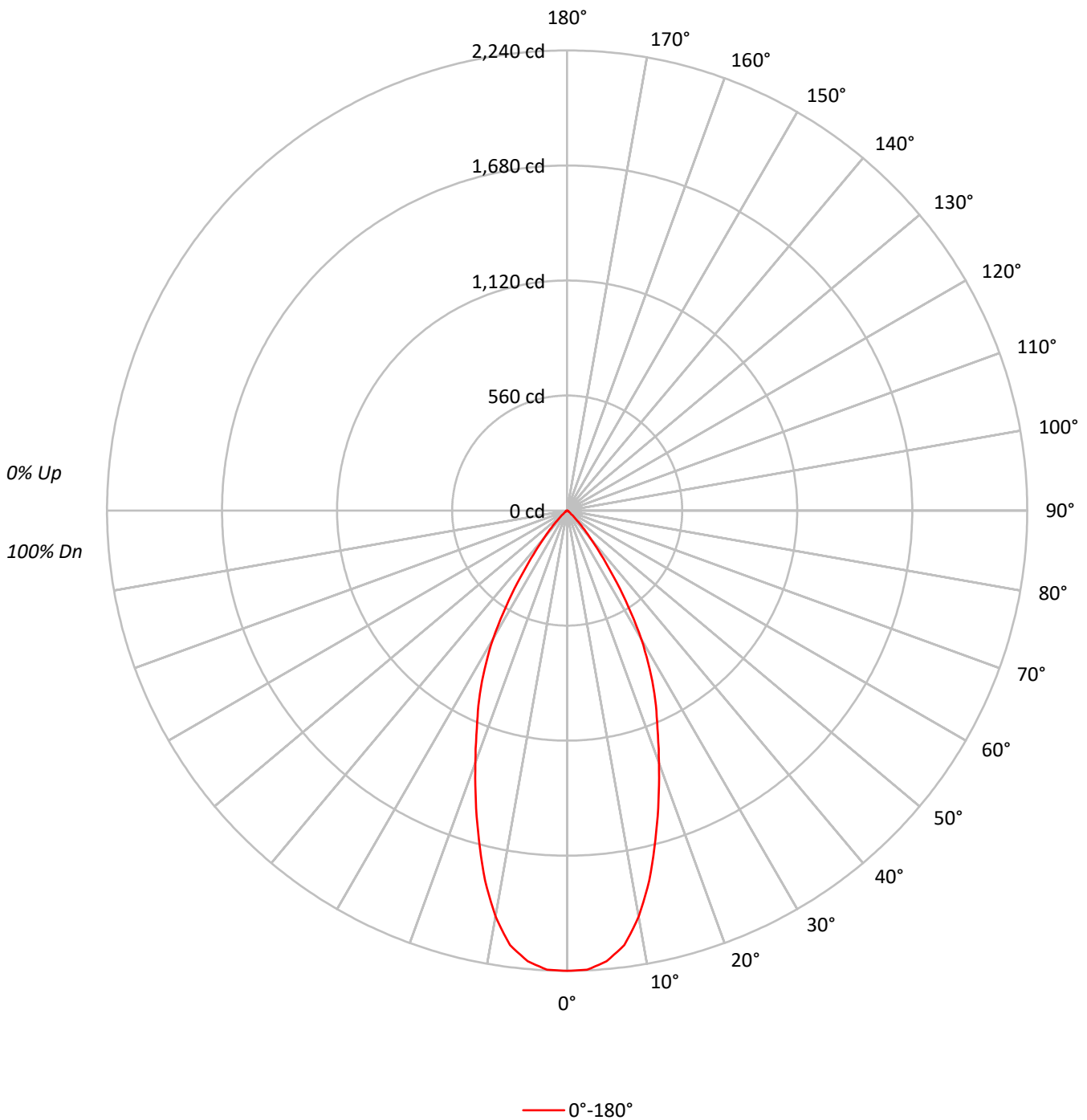
Input Watts (W): 14.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P277657

CATALOG NUMBER: FLD4B15D010 EU4B1/28040 F4LBM1LI

Luminous Intensity Polar Plot





TEST NUMBER: P277657

CATALOG NUMBER: FLD4B15D010 EU4B1/28040 F4LBM1LI

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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	92	90	88
3	104	98	93	89	102	96	92	88	94	90	87	91	88	86	89	87	84	83
4	99	92	87	83	97	91	86	82	88	84	81	87	83	80	85	82	79	78
5	94	86	81	77	93	85	80	77	84	79	76	82	78	75	81	77	75	73
6	90	82	76	72	88	81	76	72	79	75	71	78	74	71	77	73	70	69
7	86	77	72	68	85	76	71	67	75	70	67	74	70	67	73	69	66	65
8	82	73	68	64	81	73	67	64	71	67	63	71	66	63	70	66	63	61
9	78	69	64	60	77	69	64	60	68	63	60	67	63	60	66	62	59	58
10	75	66	61	57	74	66	60	57	65	60	57	64	60	57	63	59	56	55

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	244777
5°	241511
10°	222603
15°	187658
20°	151864
25°	122340
30°	91103
35°	52726
40°	25360
45°	10569
50°	3485
55°	1562
60°	1202
65°	698
70°	447
75°	591
80°	0
85°	0



TEST NUMBER: P277657

CATALOG NUMBER: FLD4B15D010 EU4B1/28040 F4LBM1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.2	14.1
10°-20°	460.2	31.7
20°-30°	460.6	31.7
30°-40°	255.0	17.6
40°-50°	60.2	4.1
50°-60°	8.6	0.6
60°-70°	3.2	0.2
70°-80°	0.9	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°	1125.0	77.4
0°-40°	1380.0	95.0
0°-60°	1448.9	99.7
0°-90°	1453.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1453.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2240	
5°	2202	204
15°	1659	460
25°	1015	461
35°	395	255
45°	68	60
55°	8	9
65°	3	3
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P277657

CATALOG NUMBER: FLD4B15D010 EU4B1/28040 F4LBM1LI

CANDELA DISTRIBUTION (FULL):

	0°
0°	2240.3
2.5°	2237.5
5°	2202.0
7.5°	2133.6
10°	2006.4
12.5°	1845.0
15°	1659.0
17.5°	1478.5
20°	1306.1
22.5°	1147.5
25°	1014.8
27.5°	871.2
30°	722.1
32.5°	553.9
35°	395.3
37.5°	268.1
40°	177.8
42.5°	112.2
45°	68.4
47.5°	39.7
50°	20.5
52.5°	10.9
55°	8.2
57.5°	6.8
60°	5.5
62.5°	4.1
65°	2.7
67.5°	2.7
70°	1.4
72.5°	1.4
75°	1.4
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)