

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: P277656

Luminaire Tested: **FLD4B10D010 EU4B1/28040 F4LBM1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277656
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: FLD4B10D010 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: 1043.0 lumens
Efficiency: N/A
Efficacy: 105.4 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

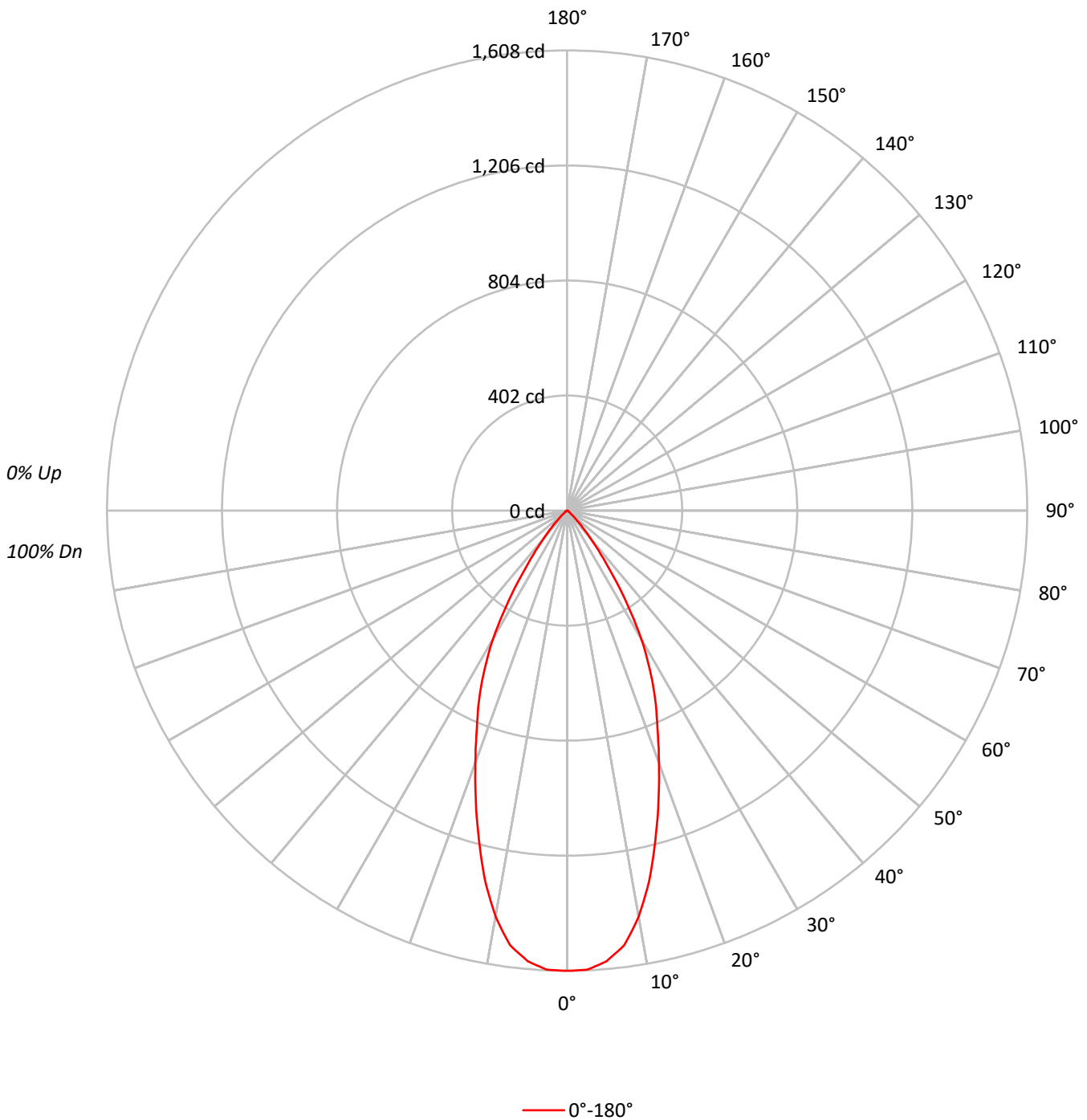
Input Watts (W): 9.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	175702
5°	173357
10°	159785
15°	134709
20°	109017
25°	87825
30°	65403
35°	37841
40°	18200
45°	7587
50°	2499
55°	1124
60°	852
65°	517
70°	319
75°	422
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.6	14.1
10°-20°	330.3	31.7
20°-30°	330.7	31.7
30°-40°	183.1	17.6
40°-50°	43.2	4.1
50°-60°	6.2	0.6
60°-70°	2.3	0.2
70°-80°	0.7	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°	807.6	77.4
0°-40°	990.6	95.0
0°-60°	1040.1	99.7
0°-90°	1043.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1043.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1608	
5°	1581	147
15°	1191	330
25°	728	331
35°	284	183
45°	49	43
55°	6	6
65°	2	2
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1608.1
2.5°	1606.2
5°	1580.6
7.5°	1531.5
10°	1440.2
12.5°	1324.4
15°	1190.9
17.5°	1061.3
20°	937.6
22.5°	823.7
25°	728.5
27.5°	625.4
30°	518.4
32.5°	397.6
35°	283.7
37.5°	192.4
40°	127.6
42.5°	80.5
45°	49.1
47.5°	28.5
50°	14.7
52.5°	7.9
55°	5.9
57.5°	4.9
60°	3.9
62.5°	2.9
65°	2.0
67.5°	2.0
70°	1.0
72.5°	1.0
75°	1.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)