

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: P277660

Luminaire Tested: **FLD4B40D010 EU4B3/58040 F4LBM1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277660
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: FLD4B40D010 EU4B3/58040 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: 3972.0 lumens
Efficiency: N/A
Efficacy: 95.0 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

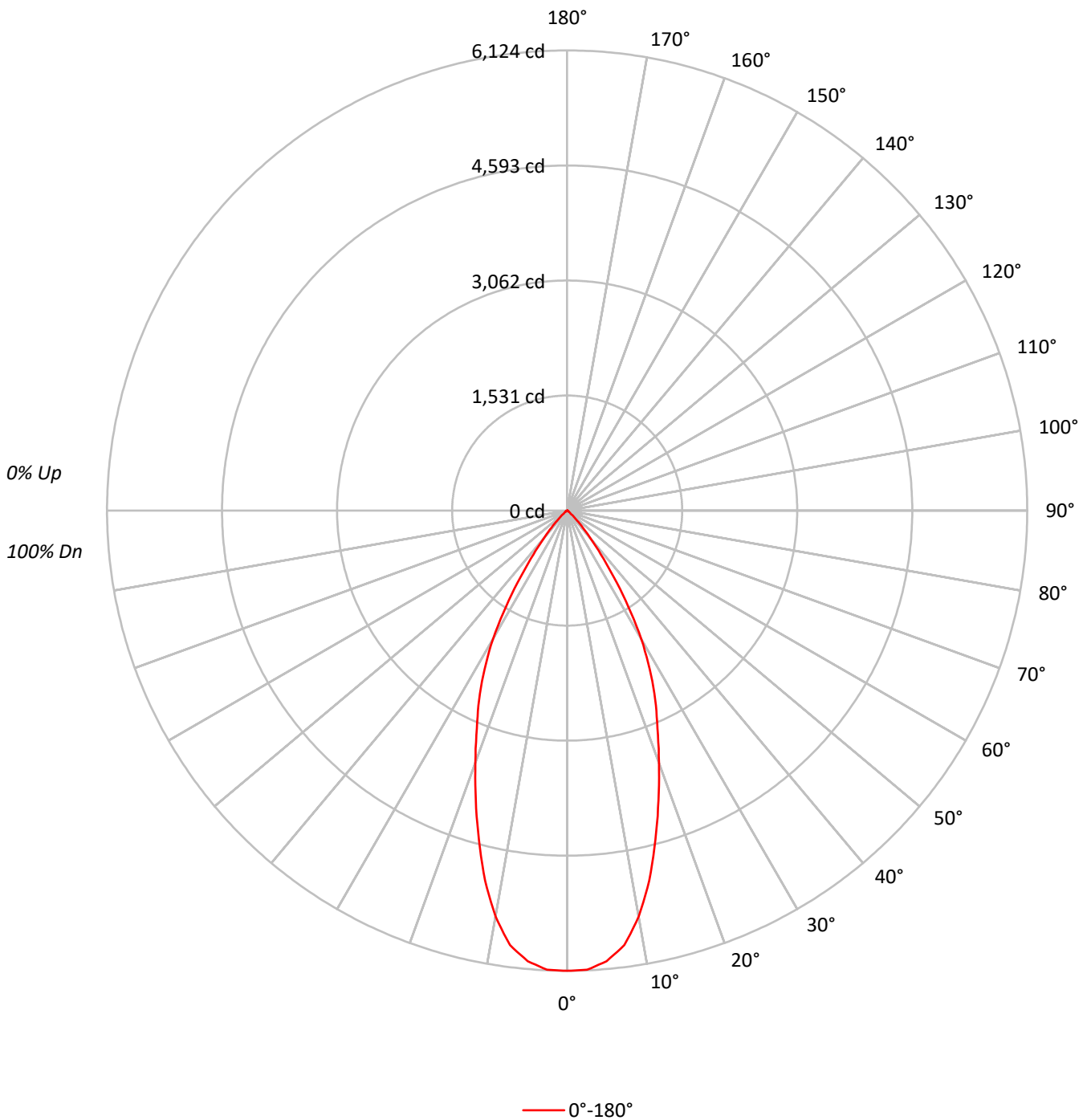
Input Watts (W): 41.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	669124
5°	660196
10°	608518
15°	512988
20°	415152
25°	334446
30°	249059
35°	144120
40°	69318
45°	28879
50°	9536
55°	4267
60°	3278
65°	1939
70°	1182
75°	1562
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	558.2	14.1
10°-20°	1257.9	31.7
20°-30°	1259.2	31.7
30°-40°	697.2	17.6
40°-50°	164.6	4.1
50°-60°	23.6	0.6
60°-70°	8.8	0.2
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°	3075.4	77.4
0°-40°	3772.6	95.0
0°-60°	3960.8	99.7
0°-90°	3972.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3972.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6124	
5°	6019	558
15°	4535	1258
25°	2774	1259
35°	1080	697
45°	187	165
55°	22	24
65°	8	9
75°	4	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	6124.1
2.5°	6116.6
5°	6019.4
7.5°	5832.5
10°	5484.8
12.5°	5043.6
15°	4535.1
17.5°	4041.6
20°	3570.5
22.5°	3136.8
25°	2774.2
27.5°	2381.6
30°	1974.1
32.5°	1514.2
35°	1080.5
37.5°	732.8
40°	486.0
42.5°	306.6
45°	186.9
47.5°	108.4
50°	56.1
52.5°	29.9
55°	22.4
57.5°	18.7
60°	15.0
62.5°	11.2
65°	7.5
67.5°	7.5
70°	3.7
72.5°	3.7
75°	3.7
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)