

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: P277658

Luminaire Tested: **FLD4B20D010 EU4B1/28040 F4LBM1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277658
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: FLD4B20D010 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: 1968.0 lumens
Efficiency: N/A
Efficacy: 94.6 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

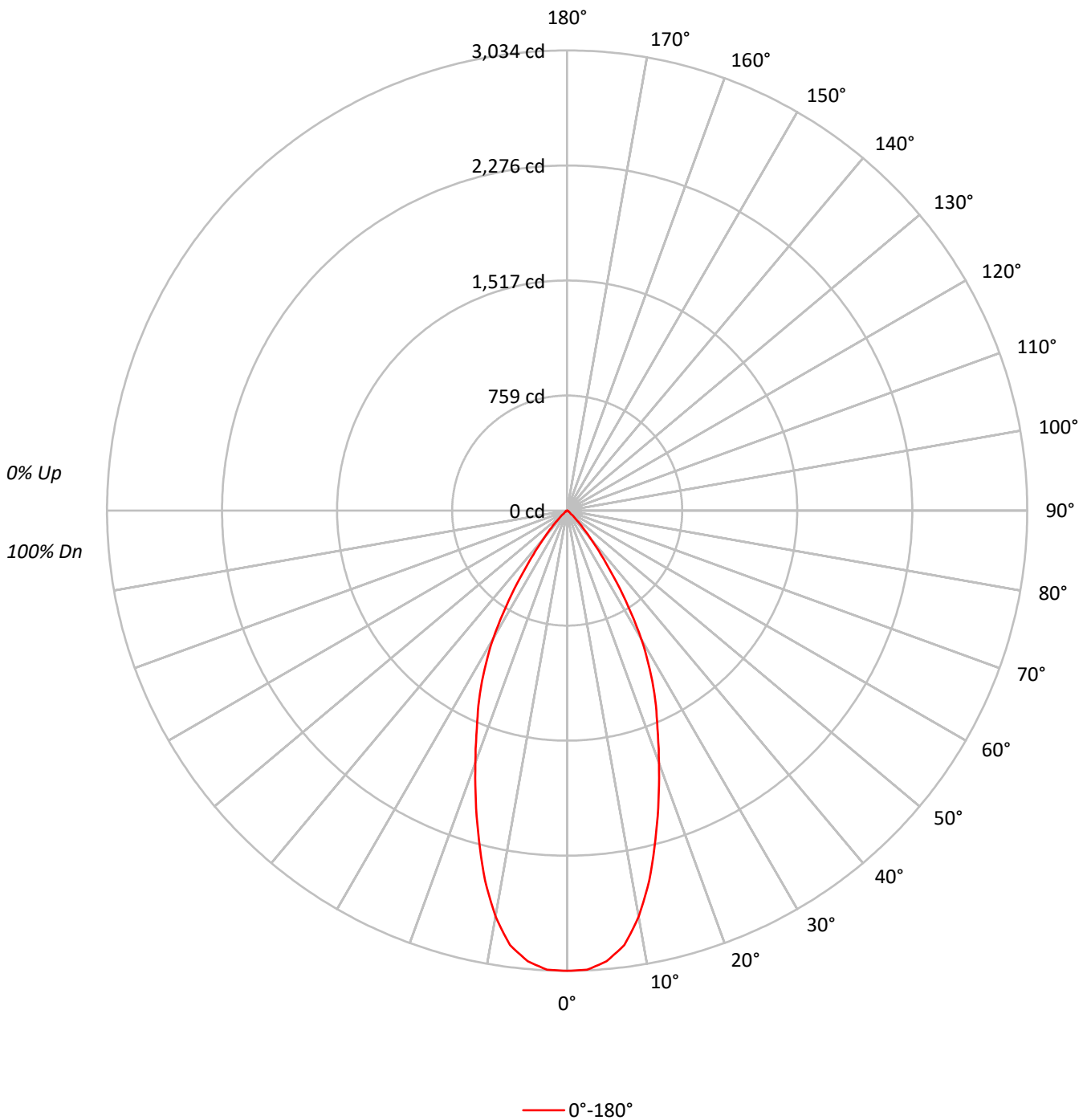
Input Watts (W): 20.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	331530
5°	327104
10°	301497
15°	254170
20°	205698
25°	165704
30°	123400
35°	71413
40°	34345
45°	14308
50°	4725
55°	2114
60°	1617
65°	957
70°	607
75°	802
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.6	14.1
10°-20°	623.3	31.7
20°-30°	623.9	31.7
30°-40°	345.4	17.6
40°-50°	81.5	4.1
50°-60°	11.7	0.6
60°-70°	4.3	0.2
70°-80°	1.2	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°	1523.8	77.4
0°-40°	1869.2	95.0
0°-60°	1962.4	99.7
0°-90°	1968.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1968.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3034	
5°	2982	277
15°	2247	623
25°	1374	624
35°	535	345
45°	93	82
55°	11	12
65°	4	4
75°	2	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3034.3
2.5°	3030.6
5°	2982.4
7.5°	2889.8
10°	2717.5
12.5°	2499.0
15°	2247.0
17.5°	2002.5
20°	1769.1
22.5°	1554.2
25°	1374.5
27.5°	1180.0
30°	978.1
32.5°	750.2
35°	535.4
37.5°	363.1
40°	240.8
42.5°	151.9
45°	92.6
47.5°	53.7
50°	27.8
52.5°	14.8
55°	11.1
57.5°	9.3
60°	7.4
62.5°	5.6
65°	3.7
67.5°	3.7
70°	1.9
72.5°	1.9
75°	1.9
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)