

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: P236137

Luminaire Tested: **FLD6B70D010 EU6B6/78040 F6LBM1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236137
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35319)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD6B70D010 EU6B6/78040 F6LBM1LI
Description: FAILSAFE 6 INCH RECESSED LED DOWNLIGHT
6" LED Sealed Medical, Medium (50° Beam), Specular Clear
Light Source: (1) 4000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6569.0 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.91
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

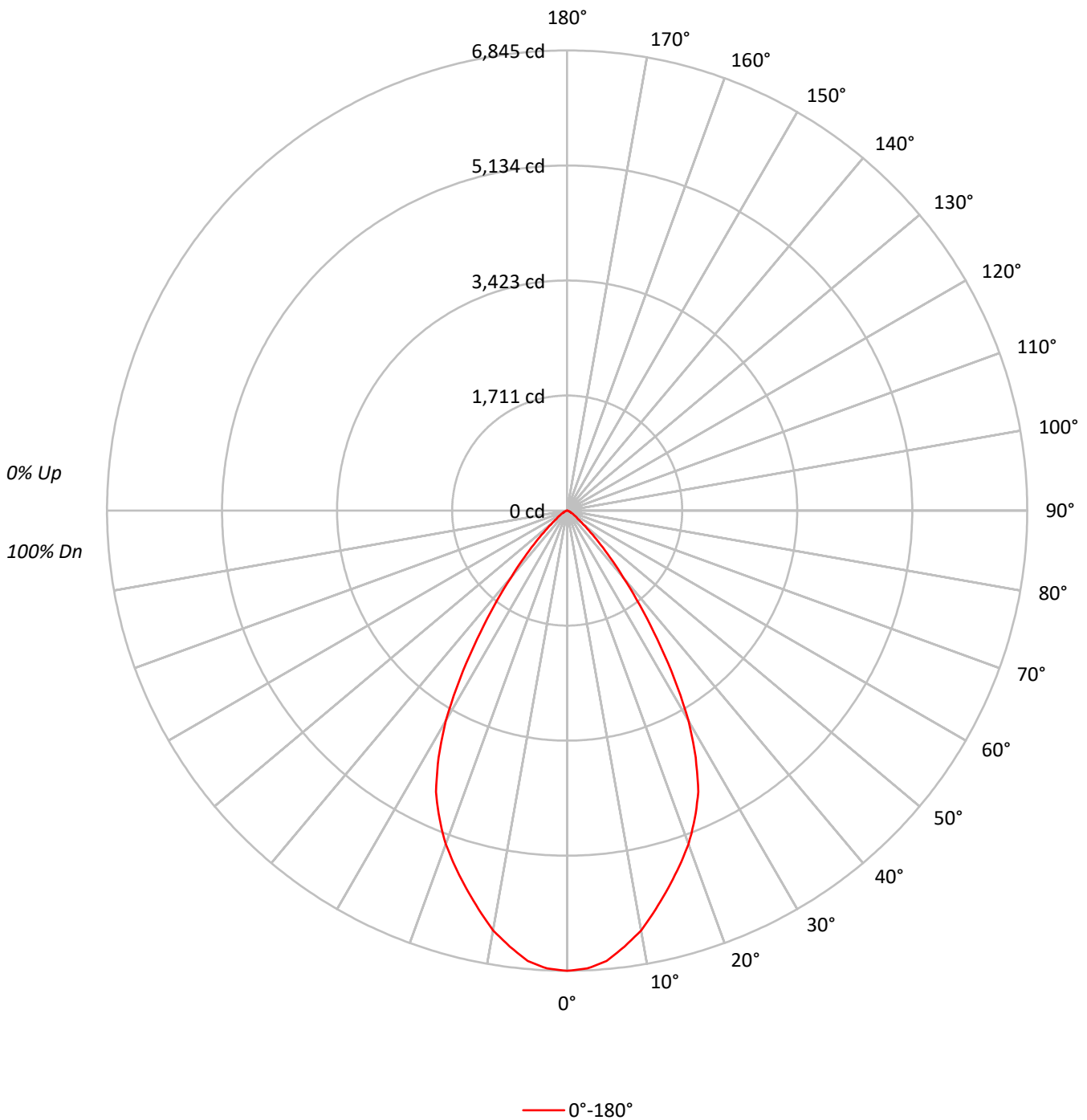
Input Watts (W): 79.45
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86
3	102	95	90	85	100	93	89	85	91	87	83	88	85	82	86	83	81	79
4	96	88	82	78	94	87	82	77	85	80	77	83	79	76	81	78	75	73
5	91	82	76	72	89	81	76	71	79	74	71	78	73	70	76	72	69	68
6	86	77	71	66	85	76	70	66	74	69	65	73	68	65	72	68	64	63
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59
8	77	68	61	57	76	67	61	57	66	60	57	65	60	56	64	59	56	55
9	74	64	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51
10	70	60	54	50	69	59	54	50	59	53	50	58	53	49	57	53	49	48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	446585
5°	440472
10°	420079
15°	392453
20°	366571
25°	332326
30°	271825
35°	185953
40°	110724
45°	59972
50°	29627
55°	18108
60°	12122
65°	8197
70°	5055
75°	3353
80°	4997
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	628.8	9.6
10°-20°	1631.8	24.8
20°-30°	2079.1	31.6
30°-40°	1469.3	22.4
40°-50°	536.4	8.2
50°-60°	148.7	2.3
60°-70°	53.9	0.8
70°-80°	19.2	0.3
80°-90°	1.8	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°	4339.7	66.1
0°-40°	5809.0	88.4
0°-60°	6494.1	98.9
0°-90°	6569.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6569.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6845	
5°	6726	629
15°	5810	1632
25°	4617	2079
35°	2335	1469
45°	650	536
55°	159	149
65°	53	54
75°	13	19
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6845.2
2.5°	6818.7
5°	6725.8
7.5°	6540.1
10°	6341.1
12.5°	6075.8
15°	5810.5
17.5°	5545.2
20°	5279.9
22.5°	4961.5
25°	4616.6
27.5°	4139.0
30°	3608.3
32.5°	2971.6
35°	2334.8
37.5°	1777.6
40°	1300.1
42.5°	941.9
45°	650.0
47.5°	437.8
50°	291.9
52.5°	199.0
55°	159.2
57.5°	119.4
60°	92.9
62.5°	66.3
65°	53.1
67.5°	39.8
70°	26.5
72.5°	26.5
75°	13.3
77.5°	13.3
80°	13.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)