

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: P365649

Luminaire Tested: **FLD6BX50D010TE-FEU6B35-8035-F6LBXVM1-MW-BL89AM**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P365649  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-544-40)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FLD6BX50D010TE-FEU6B35-8035-F6LBXVM1-MW-BL89AM  
Description: VANDAL RESISTANT ENCLOSED BOTTOM LENS, MATTE WHITE REFLECTOR, BOTTOM LENS POLYCARBONATE, OPAL SMOOTH 0.125", 5000LM  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1771.0 lumens  
Efficiency: N/A  
Efficacy: 32.1 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37  
Luminous Opening: Circular (Dia: 0.71' x H: 0')  
CIE Type: Direct

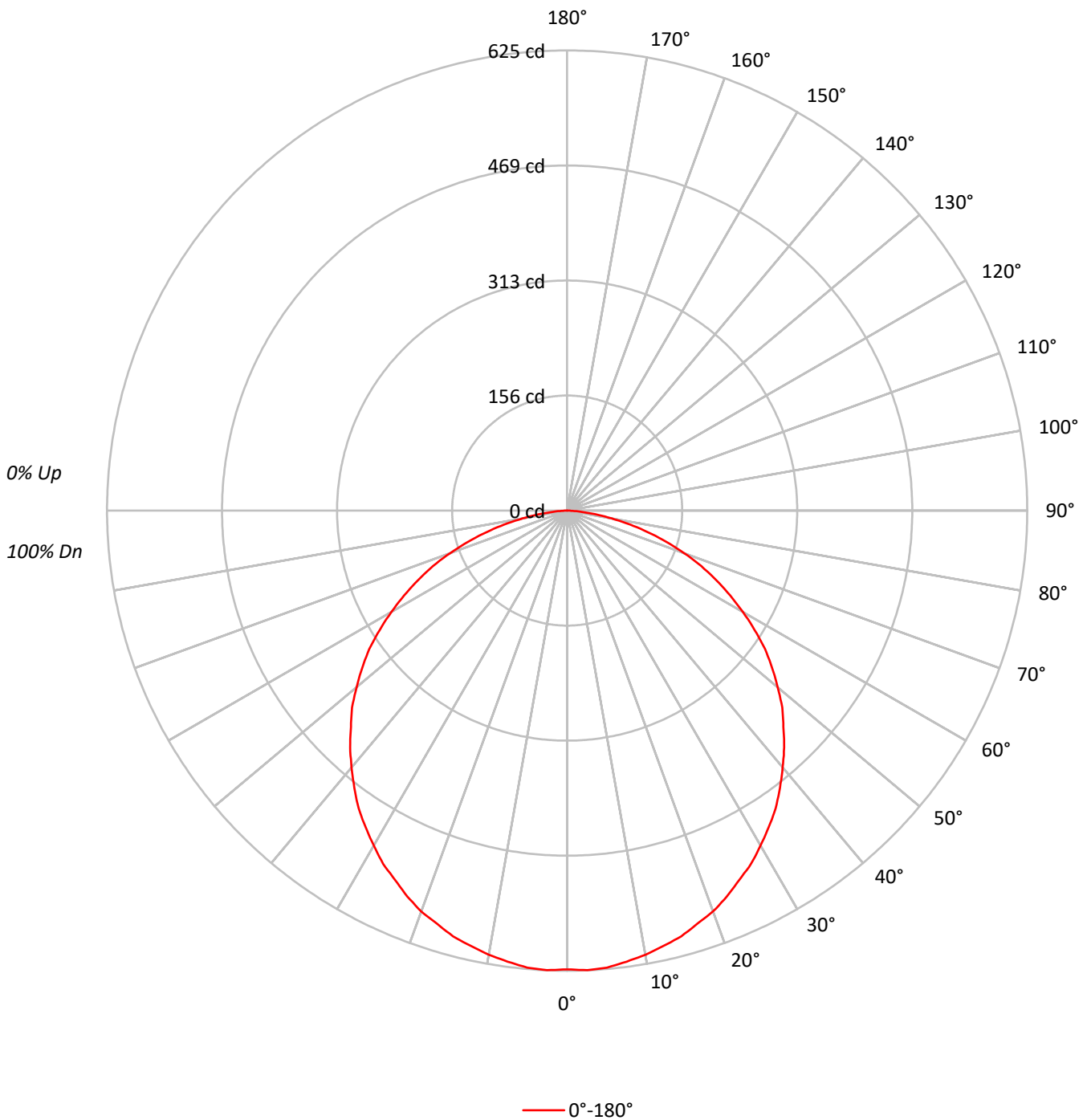
Input Watts (W): 55.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P365649

CATALOG NUMBER: FLD6BX50D010TE-FEU6B35-8035-F6LBXVM1-MW-BL89AM

### Luminous Intensity Polar Plot





TEST NUMBER: P365649

CATALOG NUMBER: FLD6BX50D010TE-FEU6B35-8035-F6LBXVM1-MW-BL89AM

**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	109	104	100	96	106	102	98	95	98	94	92		94	91	89		90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	75		82	78	74		79	75	72	70
3	90	80	71	65	88	78	70	64	75	69	63		72	67	62		70	65	61	59
4	82	70	62	55	80	69	61	55	67	59	54		64	58	53		62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46		58	51	46		56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41		52	45	40		51	45	40	38
7	65	51	42	36	63	50	42	36	49	41	36		47	41	36		46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29		40	33	29		39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26		37	31	26		36	30	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	17020
5°	17085
10°	16991
15°	16931
20°	16845
25°	16676
30°	16572
35°	16469
40°	16242
45°	16047
50°	15872
55°	15625
60°	15067
65°	14439
70°	13521
75°	11968
80°	9611
85°	5485



TEST NUMBER: P365649

CATALOG NUMBER: FLD6BX50D010TE-FEU6B35-8035-F6LBXVM1-MW-BL89AM

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.1	3.3
10°-20°	168.8	9.5
20°-30°	255.5	14.4
30°-40°	308.3	17.4
40°-50°	321.0	18.1
50°-60°	292.0	16.5
60°-70°	220.9	12.5
70°-80°	120.5	6.8
80°-90°	24.9	1.4
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°	483.4	27.3
0°-40°	791.7	44.7
0°-60°	1404.7	79.3
0°-90°	1771.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1771.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	623	
5°	623	59
15°	599	169
25°	553	255
35°	494	308
45°	415	321
55°	328	292
65°	223	221
75°	113	121
85°	18	25
90°	0	



TEST NUMBER: P365649

CATALOG NUMBER: FLD6BX50D010TE-FEU6B35-8035-F6LBXVM1-MW-BL89AM

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	623.1
2.5°	624.8
5°	623.1
7.5°	617.9
10°	612.6
12.5°	605.6
15°	598.7
17.5°	588.2
20°	579.5
22.5°	567.2
25°	553.3
27.5°	541.1
30°	525.4
32.5°	509.7
35°	493.9
37.5°	474.7
40°	455.5
42.5°	436.3
45°	415.4
47.5°	396.2
50°	373.5
52.5°	350.8
55°	328.1
57.5°	302.0
60°	275.8
62.5°	249.6
65°	223.4
67.5°	197.2
70°	169.3
72.5°	141.4
75°	113.4
77.5°	87.3
80°	61.1
82.5°	38.4
85°	17.5
87.5°	5.2
90°	0.0

(END OF REPORT)