

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: P392560

Luminaire Tested: **MWL-3-00-57-UNV-L935-EDD**

Issue Date: 12/2/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P392560  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-565-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/2/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: MWL-3-00-57-UNV-L935-EDD  
Description: MWL 3FT MEDICAL LED FIXTURE  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

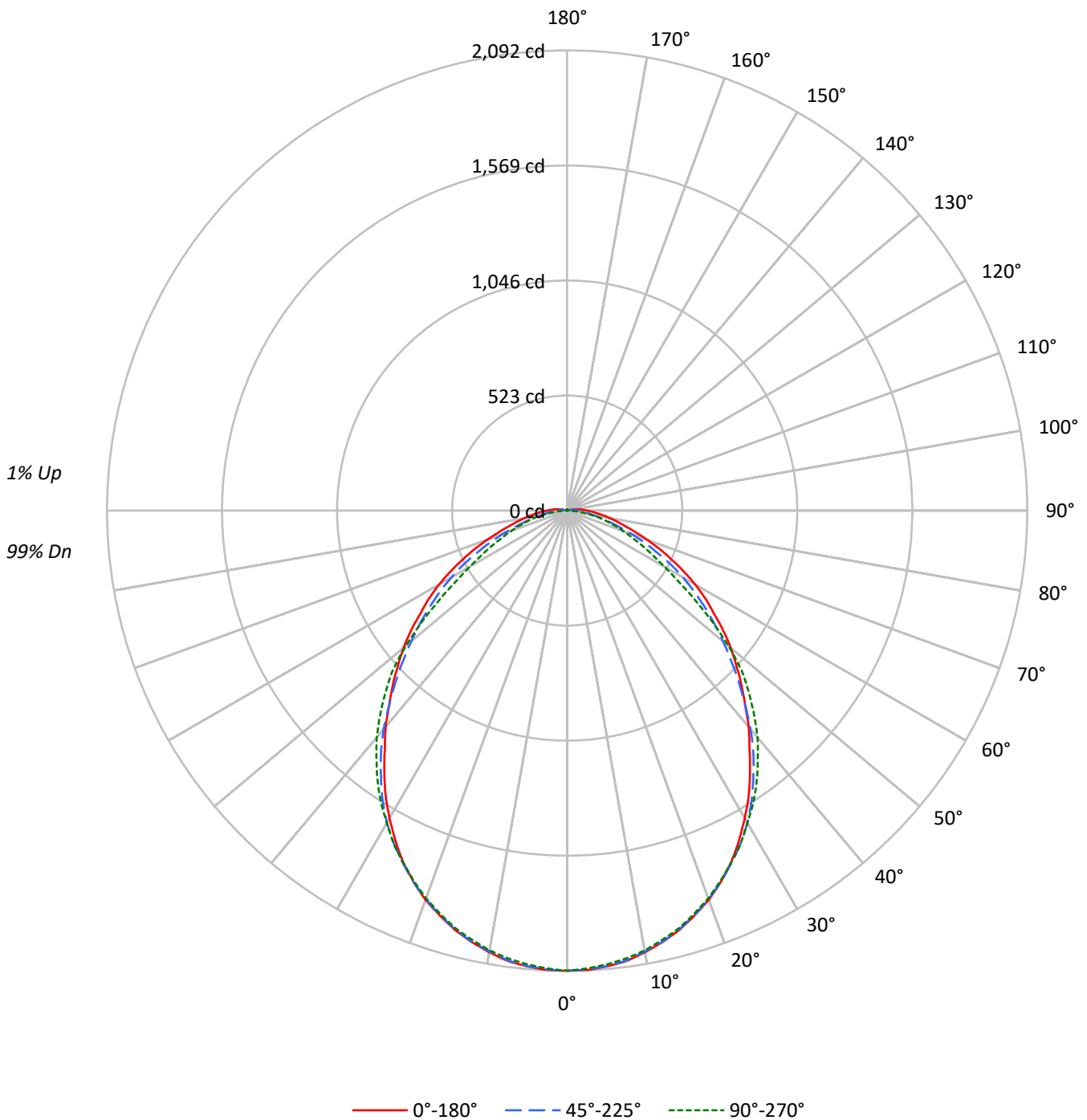
Lumens per Lamp: N/A  
Luminaire Lumens: 4863.3 lumens  
Efficiency: N/A  
Efficacy: 69.4 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.17 / 1.25  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 3' x H: 0.42')  
CIE Type: Direct

Input Watts (W): 70.094  
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



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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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	110	110	110	106	106	106	101	101	101	99				
1	109	105	101	97	106	102	99	96	98	95	92	94	92	89	90	88	86	84				
2	100	92	86	81	97	91	85	80	87	82	78	83	79	76	80	77	74	72				
3	92	82	74	68	89	80	73	68	77	71	66	74	69	65	72	67	64	62				
4	85	73	65	59	82	72	64	58	69	63	57	67	61	56	65	60	56	53				
5	78	66	57	51	76	65	57	51	63	56	50	61	54	50	59	53	49	47				
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	53	48	43	41				
7	67	54	46	40	66	54	46	40	52	45	40	50	44	39	49	43	39	37				
8	63	50	42	36	61	49	41	36	48	41	36	46	40	35	45	39	35	33				
9	59	46	38	33	57	45	38	33	44	37	32	43	37	32	42	36	32	30				
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	27				

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

	0°	45°	90°
0°	18013	18013	18013
5°	17763	16782	16458
10°	17398	15582	15090
15°	16959	14450	13819
20°	16428	13316	12601
25°	15738	12212	11439
30°	14862	11119	10338
35°	13884	9923	9290
40°	12924	8703	8231
45°	11987	7447	7104
50°	11158	6324	5846
55°	10198	5323	4388
60°	9335	4372	3218
65°	8187	3365	2423
70°	7031	2439	1812
75°	5982	1648	1306
80°	5434	1080	832
85°	5147	796	337



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	197.0	4.1
10°-20°	554.7	11.4
20°-30°	812.8	16.7
30°-40°	921.4	18.9
40°-50°	866.0	17.8
50°-60°	687.2	14.1
60°-70°	446.5	9.2
70°-80°	226.5	4.7
80°-90°	95.2	2.0
90°-100°	35.5	0.7
100°-110°	6.2	0.1
110°-120°	2.9	0.1
120°-130°	2.9	0.1
130°-140°	2.9	0.1
140°-150°	2.4	0.0
150°-160°	1.7	0.0
160°-170°	1.1	0.0
170°-180°	0.4	0.0
0°-30°	1564.4	32.2
0°-40°	2485.8	51.1
0°-60°	4039.0	83.1
0°-90°	4807.2	98.8
90°-120°	44.7	0.9
90°-150°	52.9	1.1
90°-180°	56.0	1.2
0°-180°	4863.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2092	2092	2092	2092	2092	
5°	2080	2081	2078	2074	2071	197
15°	1973	1969	1971	1968	1966	556
25°	1764	1764	1768	1770	1765	810
35°	1449	1451	1476	1500	1503	906
45°	1121	1101	1104	1140	1167	866
55°	814	801	762	743	710	732
65°	522	510	450	380	374	519
75°	273	235	198	172	186	296
85°	135	111	82	53	42	124
90°	90	81	57	30	1	50
95°	60	57	35	4	1	44
105°	11	7	2	2	2	15
115°	4	3	3	2	2	4
125°	4	3	3	2	2	4
135°	4	4	3	3	3	3
145°	4	4	4	3	3	3
155°	4	4	3	3	3	2
165°	4	3	4	4	4	1
175°	2	3	4	4	4	0
180°	3	3	3	3	3	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2091.8	2091.8	2091.8	2091.8	2091.8
2.5°	2091.0	2090.1	2088.5	2085.0	2083.4
5°	2079.9	2080.8	2078.3	2074.1	2070.6
7.5°	2065.5	2063.0	2063.0	2056.2	2053.7
10°	2038.4	2038.4	2035.1	2032.5	2030.0
12.5°	2008.7	2007.9	2007.0	2002.8	1998.6
15°	1973.1	1968.9	1970.6	1968.0	1965.5
17.5°	1929.0	1928.2	1927.4	1926.5	1921.4
20°	1883.3	1880.7	1879.1	1879.8	1875.6
22.5°	1826.4	1826.4	1827.3	1826.4	1822.2
25°	1763.7	1764.5	1767.9	1770.5	1765.4
27.5°	1691.6	1697.6	1706.9	1709.4	1707.8
30°	1614.5	1619.6	1638.2	1647.5	1639.9
32.5°	1536.5	1538.1	1561.1	1574.6	1574.6
35°	1449.2	1450.8	1476.2	1500.0	1502.6
37.5°	1361.7	1363.5	1390.6	1416.9	1423.7
40°	1283.7	1274.4	1297.4	1329.6	1346.6
42.5°	1197.3	1185.4	1197.3	1238.0	1258.4
45°	1121.0	1100.6	1104.0	1140.5	1166.7
47.5°	1043.0	1021.8	1011.6	1044.6	1076.9
50°	970.8	945.5	925.1	939.5	956.4
52.5°	893.7	872.6	842.9	844.5	833.5
55°	814.0	801.3	762.3	742.8	709.7
57.5°	745.4	730.9	684.3	641.0	598.7
60°	672.4	660.5	608.0	541.0	510.5
62.5°	596.1	587.6	530.0	453.6	437.5
65°	521.5	510.5	450.3	379.8	374.0
67.5°	452.8	435.9	379.8	317.1	316.3
70°	385.8	362.1	311.2	263.7	269.7
72.5°	323.9	295.9	251.0	214.5	223.0
75°	273.0	234.9	198.4	172.1	185.7
77.5°	232.3	192.5	153.5	132.3	148.4
80°	195.9	157.7	121.2	100.1	111.9
82.5°	166.2	130.6	98.4	72.1	77.1
85°	134.8	111.1	82.2	53.4	42.4
87.5°	111.1	94.1	68.7	41.6	12.7
90°	89.9	80.6	56.8	29.7	0.9
92.5°	72.9	68.7	46.6	17.0	0.9
95°	60.2	56.8	34.8	4.2	0.9
97.5°	48.3	45.0	19.5	1.7	0.9
100°	33.0	27.1	8.5	1.7	1.7
102.5°	20.4	16.1	2.5	1.7	1.7
105°	11.0	6.8	2.5	1.7	1.7
107.5°	6.0	4.2	2.5	1.7	1.7
110°	5.1	3.4	2.5	1.7	1.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	4.2	3.4	2.5	1.7	1.7
115°	4.2	3.4	3.4	2.5	1.7
117.5°	4.2	3.4	3.4	2.5	2.5
120°	4.2	3.4	3.4	2.5	2.5
122.5°	4.2	3.4	3.4	2.5	2.5
125°	4.2	3.4	3.4	2.5	2.5
127.5°	4.2	4.2	3.4	2.5	2.5
130°	4.2	4.2	3.4	3.4	2.5
132.5°	4.2	4.2	3.4	3.4	3.4
135°	4.2	4.2	3.4	3.4	3.4
137.5°	4.2	4.2	3.4	3.4	3.4
140°	4.2	4.2	3.4	3.4	3.4
142.5°	4.2	4.2	4.2	3.4	3.4
145°	4.2	4.2	4.2	3.4	3.4
147.5°	4.2	4.2	3.4	3.4	3.4
150°	4.2	4.2	3.4	4.2	3.4
152.5°	4.2	4.2	3.4	3.4	3.4
155°	4.2	4.2	3.4	3.4	3.4
157.5°	4.2	4.2	3.4	3.4	3.4
160°	4.2	3.4	3.4	3.4	3.4
162.5°	4.2	3.4	3.4	4.2	4.2
165°	4.2	3.4	4.2	4.2	4.2
167.5°	3.4	3.4	4.2	4.2	4.2
170°	2.5	3.4	4.2	4.2	4.2
172.5°	2.5	3.4	4.2	4.2	4.2
175°	2.5	3.4	4.2	4.2	4.2
177.5°	2.5	3.4	4.2	4.2	4.2
180°	3.4	3.4	3.4	3.4	3.4

(END OF REPORT)