

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: P708996

Luminaire Tested: **24APR-67L940-X-UNV**

Issue Date: 09/12/2023



Test Information

Test Method: LM-79-08
Report Number: P708996
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/12/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24APR-67L940-X-UNV
Description: ArcMed Patient Recessed 2x4 Fixture Ambient Light
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

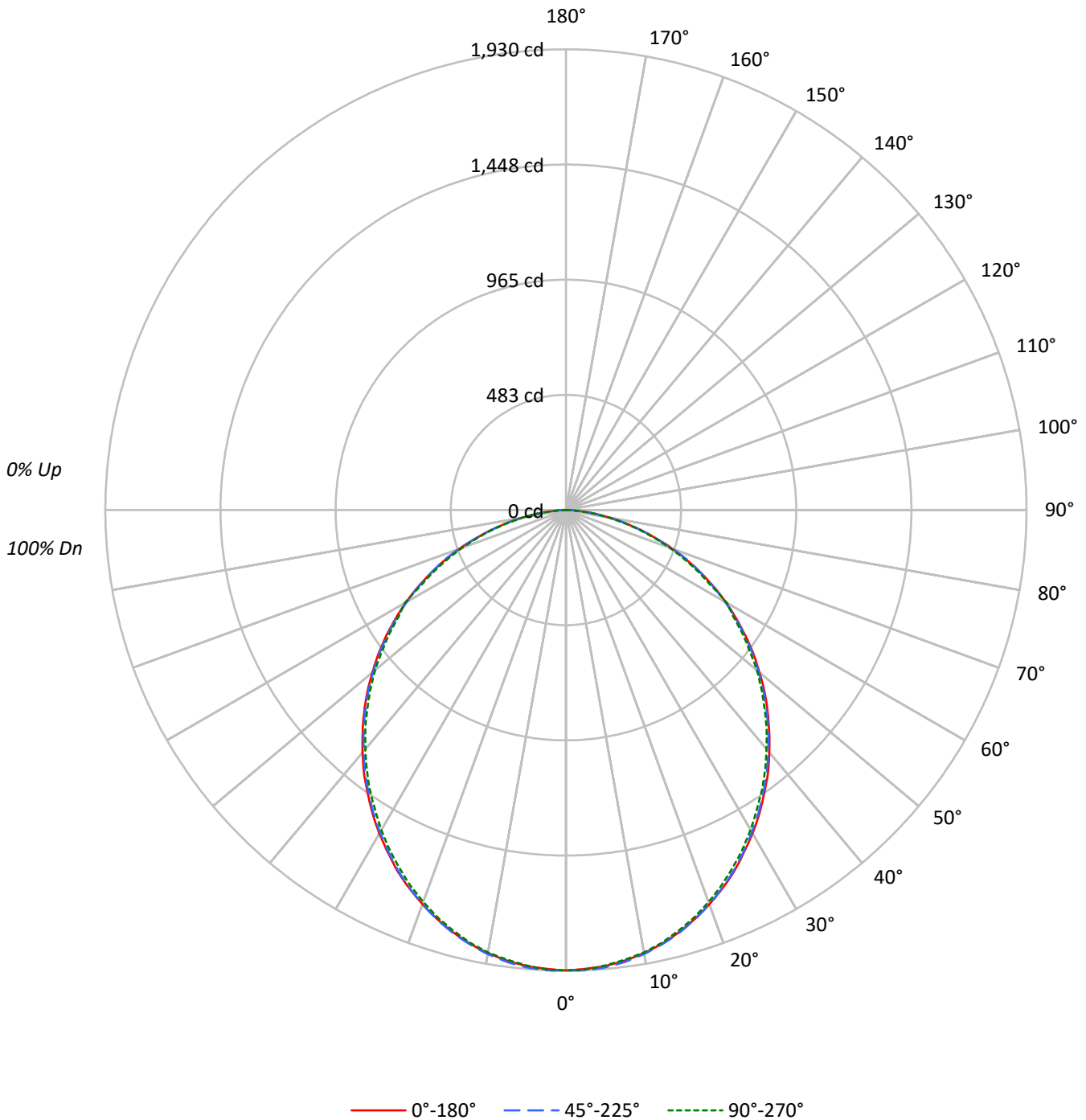
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5137.5 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 60.3
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				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	111	111	111	106	106	106	102	102	102	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	86	86	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	72	72	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	61	61	61	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	53	53	53	51
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	46	46	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	41	41	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	36	36	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	32	32	32	30
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	29	29	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	27	27	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2595	2595	2595
5°	2589	2597	2586
10°	2575	2581	2571
15°	2550	2555	2541
20°	2517	2516	2502
25°	2479	2473	2454
30°	2430	2421	2403
35°	2379	2371	2352
40°	2328	2317	2296
45°	2275	2264	2240
50°	2217	2208	2186
55°	2156	2145	2117
60°	2084	2070	2099
65°	1989	1983	1946
70°	1866	1869	1817
75°	1694	1681	1643
80°	1456	1437	1399
85°	1113	1104	1017



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.2	3.5
10°-20°	516.1	10.0
20°-30°	766.0	14.9
30°-40°	901.7	17.6
40°-50°	916.3	17.8
50°-60°	814.6	15.9
60°-70°	614.5	12.0
70°-80°	341.3	6.6
80°-90°	84.9	1.7
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°	1464.3	28.5
0°-40°	2366.0	46.1
0°-60°	4096.9	79.7
0°-90°	5137.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5137.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1929	1929	1929	1929	1929	
5°	1917	1920	1923	1920	1915	182
15°	1831	1833	1834	1830	1824	516
25°	1670	1668	1666	1658	1653	768
35°	1448	1449	1443	1435	1432	907
45°	1196	1196	1190	1180	1177	922
55°	919	912	914	904	902	821
65°	625	621	623	615	611	618
75°	326	322	323	321	316	346
85°	72	70	72	68	66	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1928.8	1928.8	1928.8	1928.8	1928.8
2.5°	1923.9	1927.6	1930.1	1927.0	1926.4
5°	1917.1	1920.2	1922.7	1919.6	1914.7
7.5°	1903.6	1907.3	1909.1	1906.0	1899.3
10°	1884.5	1888.2	1888.8	1885.7	1882.0
12.5°	1861.1	1863.5	1863.5	1861.1	1856.8
15°	1830.9	1832.7	1834.0	1829.7	1824.1
17.5°	1796.4	1799.5	1798.2	1791.5	1789.0
20°	1757.6	1760.0	1757.0	1752.6	1747.1
22.5°	1715.1	1715.7	1713.2	1708.3	1702.7
25°	1669.5	1668.2	1665.8	1658.4	1652.8
27.5°	1616.5	1619.0	1612.8	1606.0	1602.3
30°	1564.1	1564.8	1558.6	1550.0	1546.9
32.5°	1508.1	1506.8	1502.5	1493.3	1488.4
35°	1448.3	1448.9	1443.4	1434.8	1431.7
37.5°	1390.4	1386.7	1382.4	1372.5	1370.7
40°	1325.7	1325.1	1319.0	1310.3	1307.2
42.5°	1261.0	1260.4	1255.5	1246.9	1244.4
45°	1195.7	1195.7	1189.6	1179.7	1177.3
47.5°	1129.2	1126.7	1122.4	1113.8	1110.7
50°	1059.0	1057.1	1054.7	1044.8	1044.2
52.5°	990.0	988.8	984.4	975.8	970.9
55°	919.1	912.4	914.2	904.4	902.5
57.5°	846.4	839.7	843.4	834.7	831.0
60°	774.4	767.6	769.4	763.9	779.9
62.5°	700.4	696.1	696.1	709.1	685.7
65°	624.7	621.0	622.8	614.8	611.1
67.5°	550.1	544.6	556.3	541.5	535.3
70°	474.4	470.7	475.0	466.3	462.0
72.5°	399.2	396.1	394.9	391.8	388.1
75°	325.9	321.6	323.4	321.0	316.0
77.5°	254.4	253.2	252.6	249.5	245.8
80°	187.9	186.7	185.4	183.0	180.5
82.5°	125.7	124.4	123.8	122.6	122.0
85°	72.1	70.2	71.5	68.4	65.9
87.5°	27.1	26.5	27.7	25.3	23.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)