

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: P708876

Luminaire Tested: **22APR-22-52L930-UNV**

Issue Date: 09/12/2023



Test Information

Test Method: LM-79-08
Report Number: P708876
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/12/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 22APR-22-52L930-UNV
Description: ArcMed Patient Recessed 2x2 Fixture Ambient and Exam Light
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

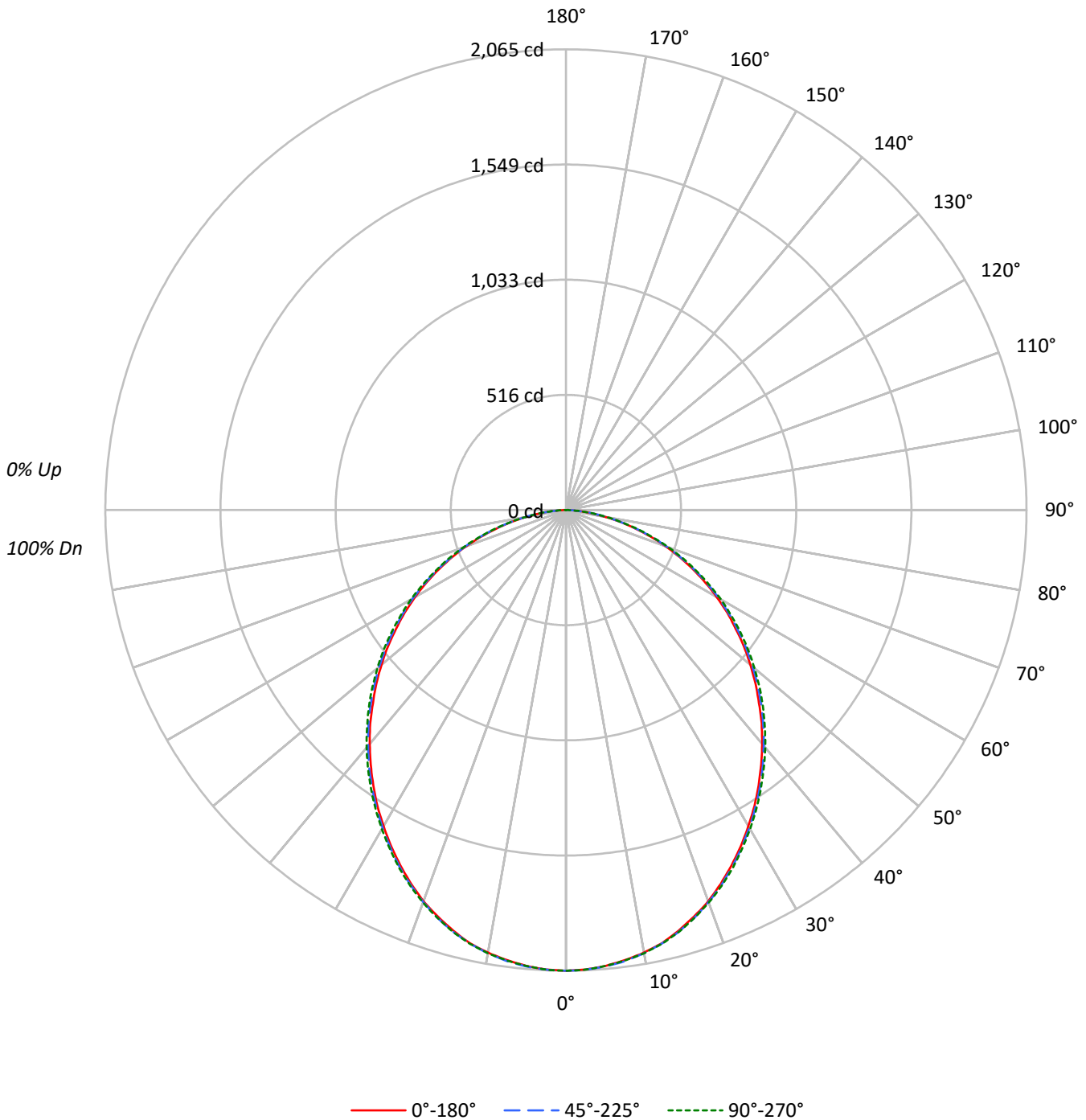
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5371.8 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.19 / 1.31
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 63.8
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				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	81	76	82	78	74	79	76	73	73	73	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	62	62	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	53	53	53	51
5	76	64	55	48	74	63	54	48	61	53	47	59	52	47	57	51	46	46	46	46	44
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	41	41	41	39
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	36	36	36	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	33	33	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	30	30	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	27	27	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5558	5558	5558
5°	5539	5546	5542
10°	5505	5513	5512
15°	5438	5452	5454
20°	5344	5355	5363
25°	5215	5240	5256
30°	5082	5110	5129
35°	4946	4980	5005
40°	4807	4845	4884
45°	4658	4715	4756
50°	4519	4573	4619
55°	4364	4422	4477
60°	4204	4260	4320
65°	3997	4062	4109
70°	3740	3791	3845
75°	3363	3426	3471
80°	2841	2913	2940
85°	2124	2217	2205



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.8	3.6
10°-20°	551.1	10.3
20°-30°	812.3	15.1
30°-40°	948.1	17.6
40°-50°	955.5	17.8
50°-60°	843.3	15.7
60°-70°	630.7	11.7
70°-80°	349.5	6.5
80°-90°	86.4	1.6
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°	1558.3	29.0
0°-40°	2506.4	46.7
0°-60°	4305.2	80.1
0°-90°	5371.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5371.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2065	2065	2065	2065	2065	
5°	2051	2053	2053	2054	2052	195
15°	1952	1955	1957	1959	1958	550
25°	1756	1760	1765	1768	1770	809
35°	1506	1509	1516	1522	1524	942
45°	1224	1232	1239	1248	1250	945
55°	930	936	943	951	954	833
65°	628	631	638	643	645	622
75°	324	325	330	333	334	344
85°	69	71	72	71	71	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2065.4	2065.4	2065.4	2065.4	2065.4
2.5°	2061.5	2063.6	2061.9	2063.6	2061.9
5°	2050.7	2053.3	2053.3	2053.7	2051.6
7.5°	2034.8	2037.8	2039.1	2039.5	2036.5
10°	2014.6	2017.6	2017.6	2019.3	2017.2
12.5°	1988.8	1990.5	1990.1	1992.7	1990.9
15°	1951.8	1955.2	1956.9	1958.7	1957.8
17.5°	1910.5	1914.8	1916.1	1919.1	1916.9
20°	1866.2	1869.2	1870.0	1874.8	1872.6
22.5°	1813.3	1816.3	1819.3	1823.6	1824.0
25°	1756.5	1760.4	1764.7	1768.1	1770.2
27.5°	1698.0	1701.8	1705.7	1710.0	1710.9
30°	1635.6	1640.3	1644.6	1649.8	1650.7
32.5°	1572.8	1574.5	1581.0	1586.6	1589.1
35°	1505.7	1509.1	1516.0	1522.0	1523.7
37.5°	1437.3	1442.4	1449.8	1456.2	1457.9
40°	1368.4	1372.7	1379.2	1387.8	1390.4
42.5°	1298.8	1301.8	1310.4	1317.7	1319.8
45°	1223.9	1231.6	1239.0	1247.6	1249.7
47.5°	1152.5	1158.5	1165.8	1174.0	1177.4
50°	1079.4	1086.7	1092.3	1101.3	1103.4
52.5°	1006.2	1011.0	1018.7	1026.4	1029.9
55°	930.1	935.7	942.6	951.2	954.2
57.5°	856.9	860.0	867.7	875.0	877.6
60°	781.2	784.2	791.6	799.3	802.7
62.5°	705.5	708.1	714.1	723.2	723.2
65°	627.7	630.7	638.0	643.1	645.3
67.5°	551.9	554.5	559.7	566.1	569.1
70°	475.4	477.5	481.8	488.3	488.7
72.5°	398.8	400.9	406.5	408.7	411.7
75°	323.5	325.2	329.5	333.0	333.8
77.5°	251.7	254.2	257.3	258.5	259.8
80°	183.3	185.8	188.0	189.3	189.7
82.5°	121.3	123.9	125.2	126.0	125.6
85°	68.8	71.0	71.8	71.0	71.4
87.5°	27.1	28.4	29.3	28.8	28.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)