

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: P708985

Luminaire Tested: **24APR-76L930-X-UNV**

Issue Date: 09/12/2023



Test Information

Test Method: LM-79-08
Report Number: P708985
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/12/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24APR-76L930-X-UNV
Description: ArcMed Patient Recessed 2x4 Fixture Ambient Light
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

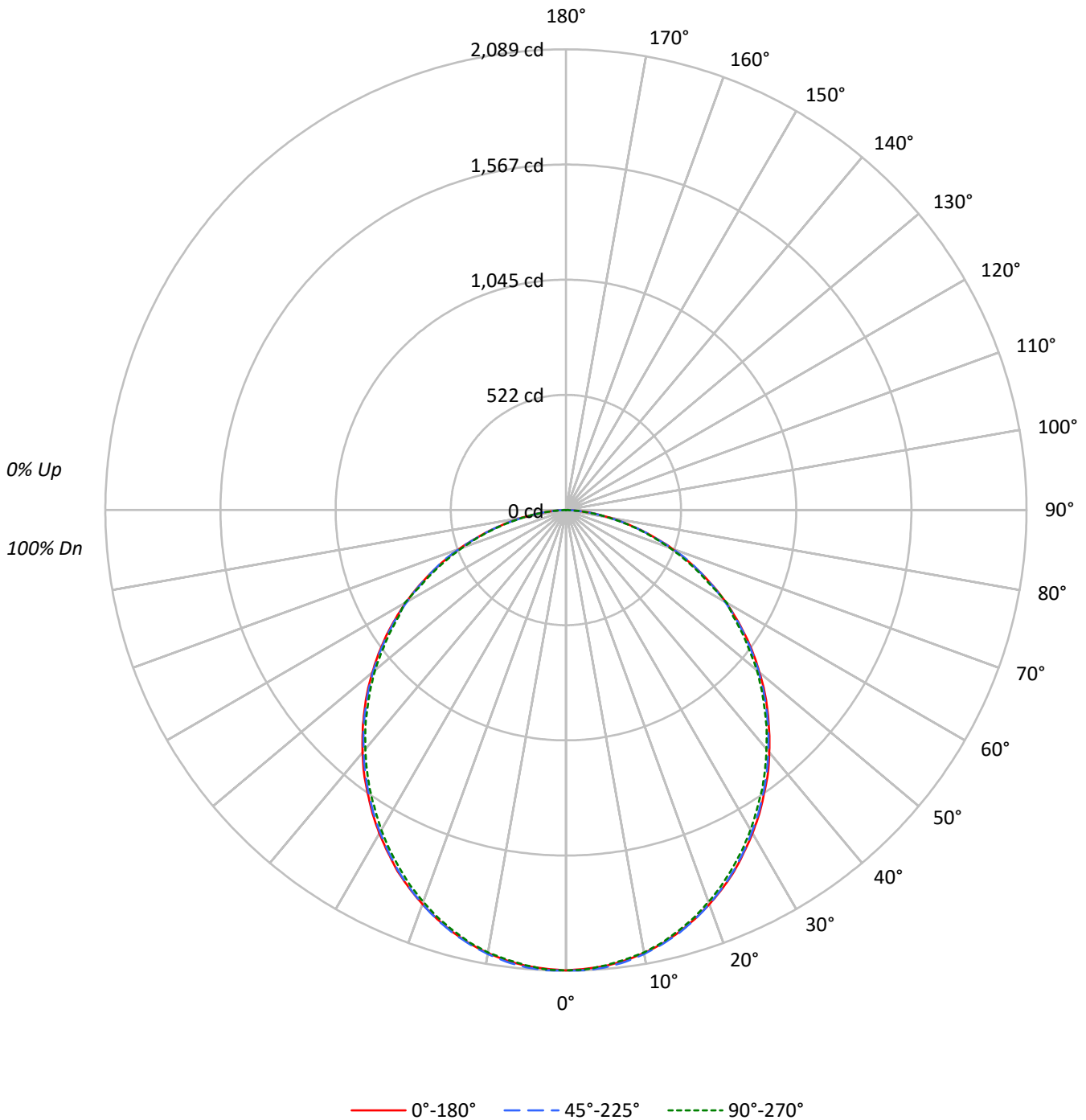
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5560.4 lumens
Efficiency: N/A
Efficacy: 80.1 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): 69.4
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°	2809	2809	2809
5°	2802	2811	2799
10°	2787	2793	2783
15°	2760	2765	2750
20°	2724	2723	2707
25°	2682	2677	2656
30°	2630	2621	2601
35°	2575	2566	2545
40°	2520	2507	2485
45°	2463	2450	2425
50°	2399	2389	2366
55°	2334	2321	2291
60°	2255	2241	2271
65°	2152	2146	2106
70°	2020	2022	1967
75°	1834	1820	1778
80°	1576	1555	1514
85°	1204	1193	1101



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.2	3.5
10°-20°	558.6	10.0
20°-30°	829.1	14.9
30°-40°	975.9	17.6
40°-50°	991.8	17.8
50°-60°	881.7	15.9
60°-70°	665.0	12.0
70°-80°	369.4	6.6
80°-90°	91.8	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°	1584.8	28.5
0°-40°	2560.7	46.1
0°-60°	4434.1	79.7
0°-90°	5560.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5560.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2088	2088	2088	2088	2088	
5°	2075	2078	2081	2078	2072	197
15°	1982	1984	1985	1980	1974	559
25°	1807	1806	1803	1795	1789	831
35°	1568	1568	1562	1553	1550	981
45°	1294	1294	1288	1277	1274	998
55°	995	988	990	979	977	889
65°	676	672	674	665	661	669
75°	353	348	350	347	342	374
85°	78	76	77	74	71	94
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2087.6	2087.6	2087.6	2087.6	2087.6
2.5°	2082.3	2086.3	2088.9	2085.6	2084.9
5°	2074.9	2078.3	2080.9	2077.6	2072.3
7.5°	2060.3	2064.3	2066.3	2062.9	2055.6
10°	2039.6	2043.6	2044.3	2040.9	2036.9
12.5°	2014.3	2016.9	2016.9	2014.3	2009.6
15°	1981.6	1983.6	1984.9	1980.3	1974.3
17.5°	1944.3	1947.6	1946.3	1938.9	1936.3
20°	1902.3	1904.9	1901.6	1896.9	1890.9
22.5°	1856.2	1856.9	1854.2	1848.9	1842.9
25°	1806.9	1805.6	1802.9	1794.9	1788.9
27.5°	1749.6	1752.2	1745.6	1738.2	1734.2
30°	1692.9	1693.6	1686.9	1677.6	1674.2
32.5°	1632.2	1630.9	1626.2	1616.2	1610.9
35°	1567.5	1568.2	1562.2	1552.9	1549.5
37.5°	1504.9	1500.9	1496.2	1485.5	1483.5
40°	1434.9	1434.2	1427.5	1418.2	1414.9
42.5°	1364.8	1364.2	1358.8	1349.5	1346.8
45°	1294.2	1294.2	1287.5	1276.8	1274.2
47.5°	1222.2	1219.5	1214.8	1205.5	1202.2
50°	1146.2	1144.2	1141.5	1130.8	1130.2
52.5°	1071.5	1070.1	1065.5	1056.1	1050.8
55°	994.8	987.5	989.5	978.8	976.8
57.5°	916.1	908.8	912.8	903.5	899.5
60°	838.1	830.8	832.8	826.8	844.1
62.5°	758.1	753.4	753.4	767.4	742.1
65°	676.1	672.1	674.1	665.4	661.4
67.5°	595.4	589.4	602.1	586.1	579.4
70°	513.4	509.4	514.1	504.7	500.1
72.5°	432.1	428.7	427.4	424.1	420.1
75°	352.7	348.0	350.0	347.4	342.0
77.5°	275.4	274.0	273.4	270.0	266.0
80°	203.4	202.0	200.7	198.0	195.4
82.5°	136.0	134.7	134.0	132.7	132.0
85°	78.0	76.0	77.3	74.0	71.3
87.5°	29.3	28.7	30.0	27.3	25.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)