

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: P708792

Luminaire Tested: **22APR-38L930-X-UNV**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P708792
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 22APR-38L930-X-UNV
Description: ArcMed Patient Recessed 2x2 Fixture AMBIENT Light
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

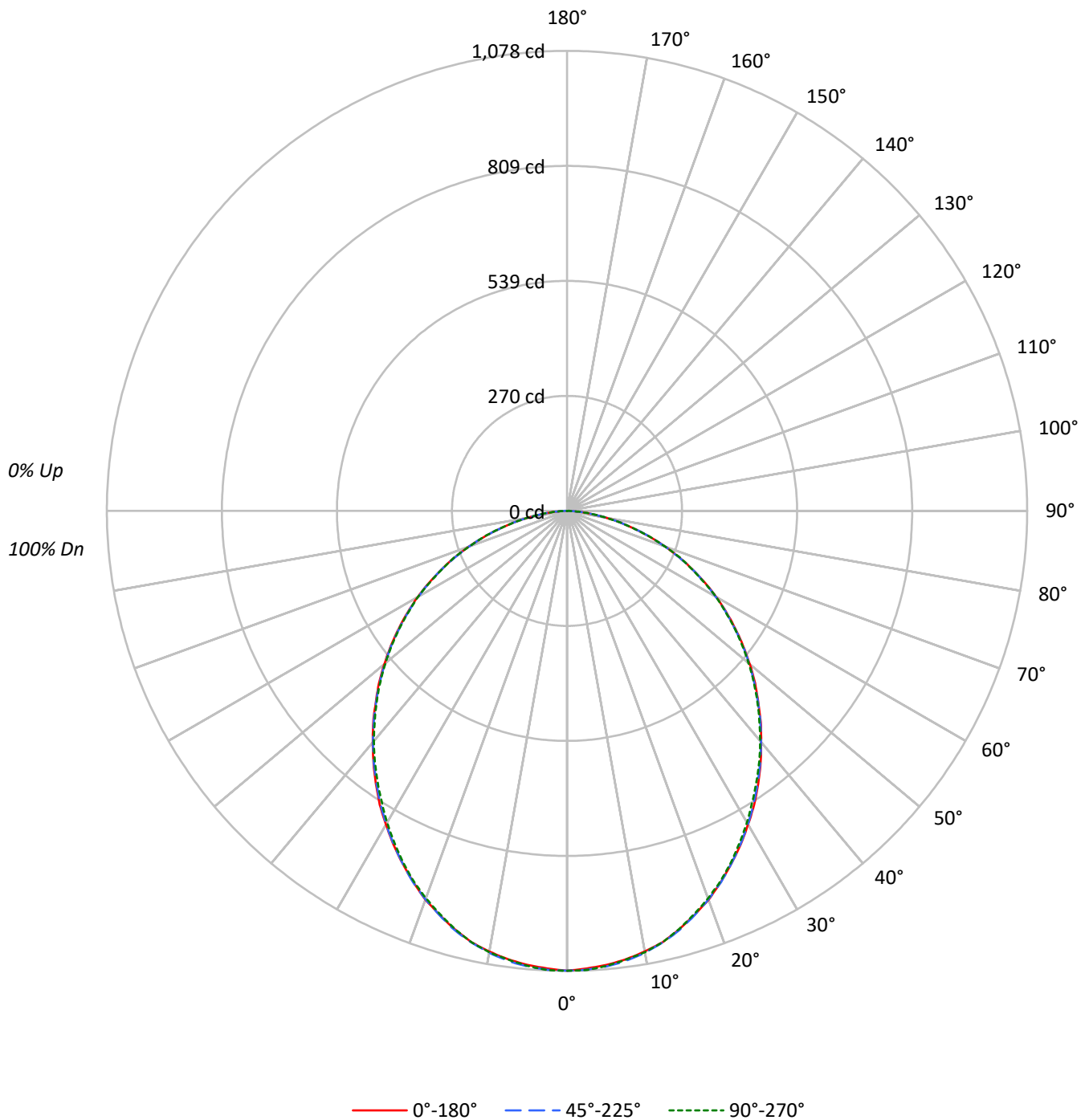
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2752.9 lumens
Efficiency: N/A
Efficacy: 70.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 39
Input Voltage (V): 120
Input Current (A_{in}): 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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	95	98	95	92		94	91	89		90
2	99	91	85	79	97	89	83	78	86	81	76		83	78	74		80
3	91	80	72	66	88	79	71	65	76	69	64		73	68	63		71
4	83	71	63	56	81	70	62	56	68	61	55		65	59	54		63
5	77	64	55	49	75	63	54	48	61	53	48		59	52	47		57
6	71	58	49	43	69	57	48	42	55	47	42		53	47	42		52
7	66	52	44	38	64	52	43	38	50	43	37		49	42	37		47
8	61	48	39	34	60	47	39	34	46	39	33		45	38	33		43
9	57	44	36	30	56	43	36	30	42	35	30		41	35	30		40
10	54	41	33	28	53	40	33	28	39	32	27		38	32	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2900	2900	2900
5°	2884	2895	2891
10°	2865	2873	2869
15°	2828	2834	2826
20°	2777	2775	2766
25°	2707	2707	2698
30°	2636	2634	2620
35°	2564	2557	2542
40°	2486	2483	2473
45°	2410	2407	2399
50°	2340	2330	2324
55°	2259	2248	2248
60°	2175	2167	2171
65°	2061	2066	2052
70°	1926	1914	1914
75°	1718	1725	1725
80°	1454	1454	1464
85°	1102	1102	1127



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.6	3.7
10°-20°	286.3	10.4
20°-30°	419.8	15.2
30°-40°	487.0	17.7
40°-50°	488.3	17.7
50°-60°	429.4	15.6
60°-70°	320.5	11.6
70°-80°	176.3	6.4
80°-90°	43.7	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°	807.7	29.3
0°-40°	1294.7	47.0
0°-60°	2212.4	80.4
0°-90°	2752.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2752.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1078	1078	1078	1078	1078	
5°	1068	1072	1072	1072	1070	101
15°	1015	1020	1017	1016	1014	286
25°	912	915	912	911	909	420
35°	781	781	778	776	774	488
45°	633	636	632	632	630	489
55°	482	482	479	480	479	431
65°	324	324	324	323	322	321
75°	165	166	166	164	166	176
85°	36	36	36	36	36	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1077.5	1077.5	1077.5	1077.5	1077.5
2.5°	1073.1	1076.8	1076.0	1078.3	1076.8
5°	1067.8	1071.6	1071.6	1071.6	1070.1
7.5°	1059.7	1063.4	1063.4	1063.4	1060.4
10°	1048.5	1052.2	1051.5	1051.5	1050.0
12.5°	1035.1	1037.3	1035.8	1035.8	1035.1
15°	1015.0	1019.5	1017.2	1015.8	1014.3
17.5°	992.7	997.2	993.4	992.7	990.5
20°	969.6	972.6	968.9	968.9	965.9
22.5°	941.3	944.3	942.1	940.6	939.1
25°	911.6	915.3	911.6	910.8	908.6
27.5°	881.1	884.0	880.3	877.3	875.9
30°	848.3	850.6	847.6	845.3	843.1
32.5°	816.3	816.3	813.4	811.1	808.1
35°	780.6	781.4	778.4	776.1	773.9
37.5°	744.9	746.4	743.4	741.2	739.7
40°	707.7	709.2	706.9	704.7	704.0
42.5°	672.0	672.0	670.5	668.2	666.8
45°	633.3	635.5	632.5	631.8	630.3
47.5°	597.5	597.5	594.6	593.1	593.1
50°	558.9	560.3	556.6	555.9	555.1
52.5°	520.2	519.4	518.7	517.9	517.2
55°	481.5	482.2	479.2	480.0	479.2
57.5°	442.8	442.0	441.3	440.5	439.8
60°	404.1	403.3	402.6	401.8	403.3
62.5°	363.9	364.6	362.4	364.6	361.7
65°	323.7	323.7	324.4	323.0	322.2
67.5°	285.0	285.0	283.5	283.5	286.5
70°	244.8	245.6	243.3	246.3	243.3
72.5°	205.4	206.1	205.4	204.6	206.1
75°	165.2	165.9	165.9	164.5	165.9
77.5°	128.7	129.5	128.7	128.0	128.7
80°	93.8	94.5	93.8	93.0	94.5
82.5°	62.5	63.3	62.5	62.5	63.3
85°	35.7	36.5	35.7	35.7	36.5
87.5°	14.1	14.9	14.9	14.9	14.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)