

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: P708777

Luminaire Tested: **22APR-38L835-X-UNV**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P708777
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 22APR-38L835-X-UNV
Description: ArcMed Patient Recessed 2x2 Fixture AMBIENT Light
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

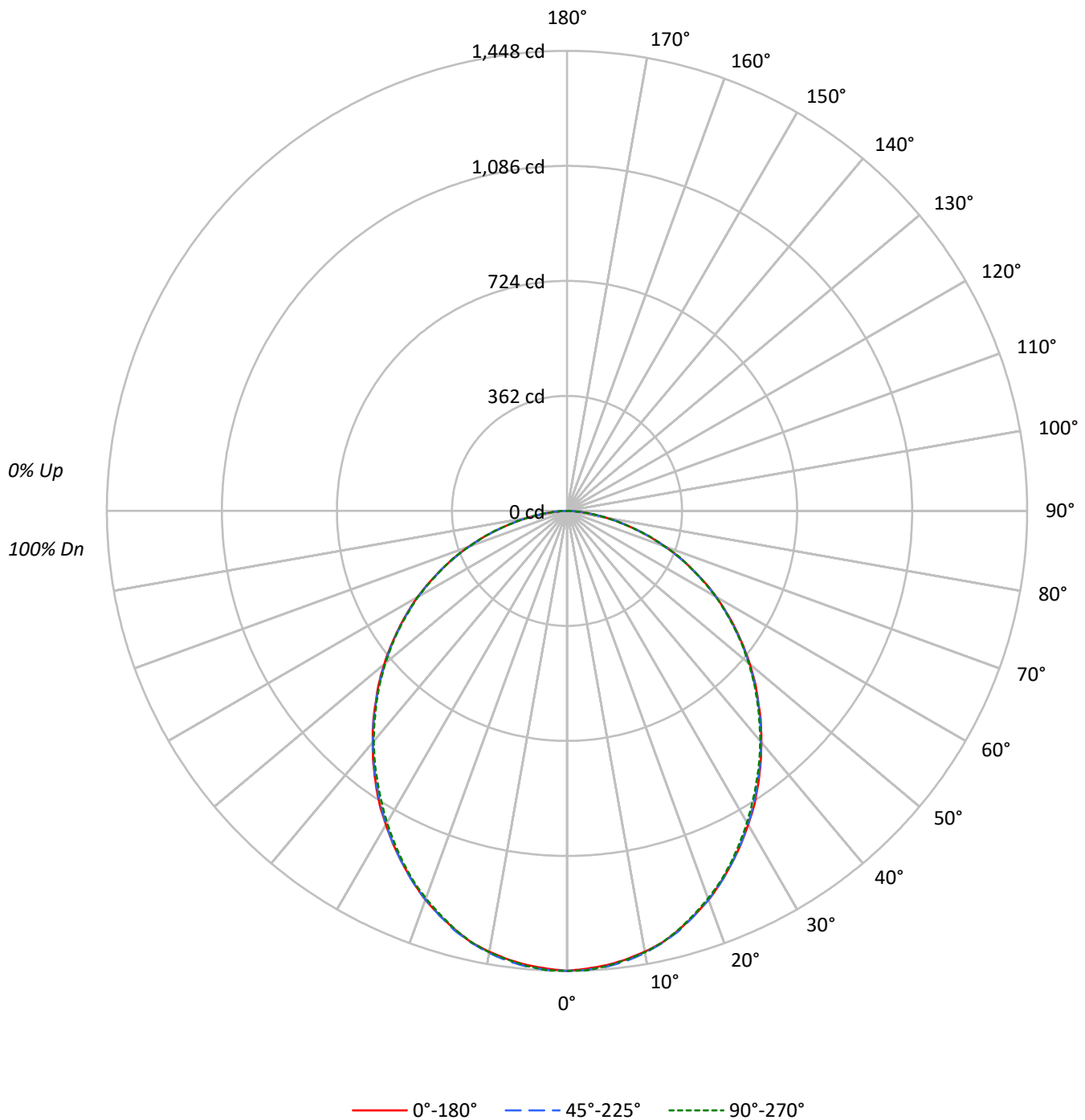
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3699.4 lumens
Efficiency: N/A
Efficacy: 94.9 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 (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
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°	3897	3897	3897
5°	3876	3890	3884
10°	3850	3861	3856
15°	3800	3808	3797
20°	3731	3729	3717
25°	3637	3637	3625
30°	3542	3539	3521
35°	3446	3436	3416
40°	3341	3337	3323
45°	3239	3235	3223
50°	3144	3131	3123
55°	3035	3021	3021
60°	2922	2912	2917
65°	2770	2776	2757
70°	2589	2573	2573
75°	2308	2319	2319
80°	1953	1953	1968
85°	1482	1482	1513



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.5	3.7
10°-20°	384.7	10.4
20°-30°	564.1	15.2
30°-40°	654.4	17.7
40°-50°	656.2	17.7
50°-60°	577.1	15.6
60°-70°	430.6	11.6
70°-80°	237.0	6.4
80°-90°	58.7	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°	1085.4	29.3
0°-40°	1739.8	47.0
0°-60°	2973.1	80.4
0°-90°	3699.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3699.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1448	1448	1448	1448	1448	
5°	1435	1440	1440	1440	1438	136
15°	1364	1370	1367	1365	1363	384
25°	1225	1230	1225	1224	1221	564
35°	1049	1050	1046	1043	1040	656
45°	851	854	850	849	847	658
55°	647	648	644	645	644	579
65°	435	435	436	434	433	431
75°	222	223	223	221	223	237
85°	48	49	48	48	49	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1448	1448	1448	1448	1448
2.5°	1442	1447	1446	1449	1447
5°	1435	1440	1440	1440	1438
7.5°	1424	1429	1429	1429	1425
10°	1409	1414	1413	1413	1411
12.5°	1391	1394	1392	1392	1391
15°	1364	1370	1367	1365	1363
17.5°	1334	1340	1335	1334	1331
20°	1303	1307	1302	1302	1298
22.5°	1265	1269	1266	1264	1262
25°	1225	1230	1225	1224	1221
27.5°	1184	1188	1183	1179	1177
30°	1140	1143	1139	1136	1133
32.5°	1097	1097	1093	1090	1086
35°	1049	1050	1046	1043	1040
37.5°	1001	1003	999	996	994
40°	951	953	950	947	946
42.5°	903	903	901	898	896
45°	851	854	850	849	847
47.5°	803	803	799	797	797
50°	751	753	748	747	746
52.5°	699	698	697	696	695
55°	647	648	644	645	644
57.5°	595	594	593	592	591
60°	543	542	541	540	542
62.5°	489	490	487	490	486
65°	435	435	436	434	433
67.5°	383	383	381	381	385
70°	329	330	327	331	327
72.5°	276	277	276	275	277
75°	222	223	223	221	223
77.5°	173	174	173	172	173
80°	126	127	126	125	127
82.5°	84	85	84	84	85
85°	48	49	48	48	49
87.5°	19	20	20	20	20
90°	0	0	0	0	0

(END OF REPORT)