

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: P708778

Luminaire Tested: **22APR-34L835-X-UNV**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P708778
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 22APR-34L835-X-UNV
Description: ArcMed Patient Recessed 2x2 Fixture AMBIENT Light
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

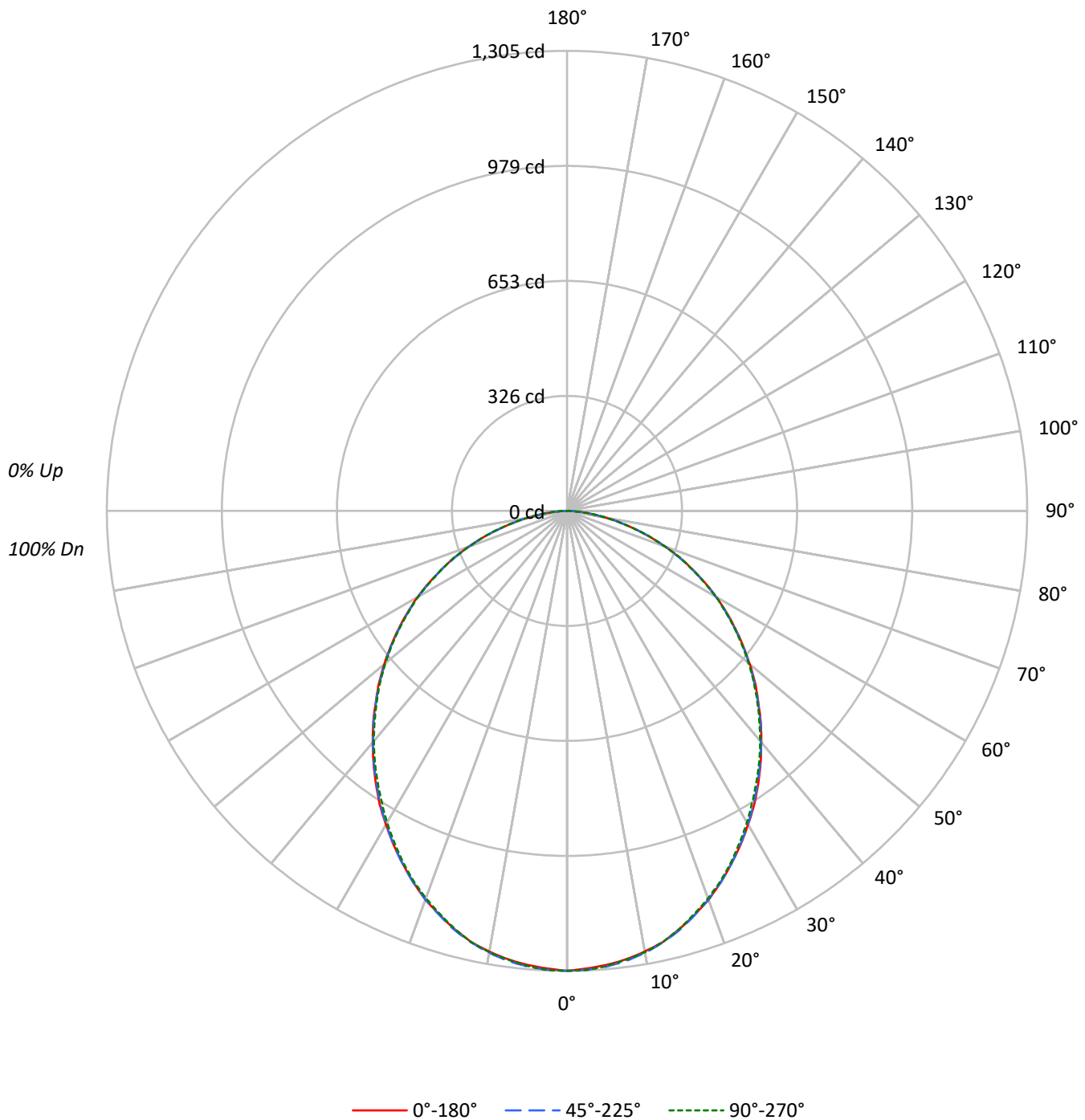
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3333.0 lumens
Efficiency: N/A
Efficacy: 96.6 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): 34.5
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

TEST NUMBER: P708778
CATALOG NUMBER: 22APR-34L835-X-UNV

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°	3511	3511	3511
5°	3492	3505	3500
10°	3469	3479	3474
15°	3424	3431	3421
20°	3362	3359	3349
25°	3277	3277	3266
30°	3191	3189	3172
35°	3105	3096	3078
40°	3010	3007	2994
45°	2918	2914	2904
50°	2833	2821	2814
55°	2735	2722	2722
60°	2633	2623	2628
65°	2495	2501	2484
70°	2332	2318	2318
75°	2079	2089	2089
80°	1759	1759	1773
85°	1334	1334	1362



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.0	3.7
10°-20°	346.6	10.4
20°-30°	508.3	15.2
30°-40°	589.6	17.7
40°-50°	591.2	17.7
50°-60°	519.9	15.6
60°-70°	388.0	11.6
70°-80°	213.5	6.4
80°-90°	52.8	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°	977.9	29.3
0°-40°	1567.5	47.0
0°-60°	2678.6	80.4
0°-90°	3333.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3333.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1305	1305	1305	1305	1305	
5°	1293	1297	1297	1297	1296	123
15°	1229	1234	1232	1230	1228	346
25°	1104	1108	1104	1103	1100	508
35°	945	946	942	940	937	591
45°	767	769	766	765	763	593
55°	583	584	580	581	580	521
65°	392	392	393	391	390	388
75°	200	201	201	199	201	213
85°	43	44	43	43	44	52
90°	0	0	0	0	0	

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CATALOG NUMBER: 22APR-34L835-X-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1304.6	1304.6	1304.6	1304.6	1304.6
2.5°	1299.2	1303.7	1302.8	1305.5	1303.7
5°	1292.9	1297.4	1297.4	1297.4	1295.6
7.5°	1283.0	1287.5	1287.5	1287.5	1283.9
10°	1269.4	1274.0	1273.1	1273.1	1271.3
12.5°	1253.2	1255.9	1254.1	1254.1	1253.2
15°	1228.9	1234.3	1231.6	1229.8	1228.0
17.5°	1201.9	1207.3	1202.8	1201.9	1199.2
20°	1173.9	1177.6	1173.0	1173.0	1169.4
22.5°	1139.7	1143.3	1140.6	1138.8	1137.0
25°	1103.7	1108.2	1103.7	1102.8	1100.1
27.5°	1066.7	1070.3	1065.8	1062.2	1060.4
30°	1027.1	1029.8	1026.2	1023.5	1020.8
32.5°	988.3	988.3	984.7	982.0	978.4
35°	945.1	946.0	942.4	939.7	937.0
37.5°	901.9	903.7	900.1	897.4	895.6
40°	856.8	858.6	855.9	853.2	852.3
42.5°	813.6	813.6	811.8	809.1	807.3
45°	766.7	769.4	765.8	764.9	763.1
47.5°	723.5	723.5	719.9	718.1	718.1
50°	676.6	678.4	673.9	673.0	672.1
52.5°	629.8	628.9	628.0	627.1	626.2
55°	582.9	583.8	580.2	581.1	580.2
57.5°	536.1	535.2	534.3	533.4	532.5
60°	489.2	488.3	487.4	486.5	488.3
62.5°	440.6	441.5	438.8	441.5	437.9
65°	391.9	391.9	392.8	391.0	390.1
67.5°	345.1	345.1	343.3	343.3	346.9
70°	296.4	297.3	294.6	298.2	294.6
72.5°	248.7	249.6	248.7	247.8	249.6
75°	200.0	200.9	200.9	199.1	200.9
77.5°	155.9	156.8	155.9	155.0	155.9
80°	113.5	114.4	113.5	112.6	114.4
82.5°	75.7	76.6	75.7	75.7	76.6
85°	43.2	44.1	43.2	43.2	44.1
87.5°	17.1	18.0	18.0	18.0	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)