

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: P708803

Luminaire Tested: **22APR-34L940-X-UNV**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P708803
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 22APR-34L940-X-UNV
Description: ArcMed Patient Recessed 2x2 Fixture AMBIENT Light
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

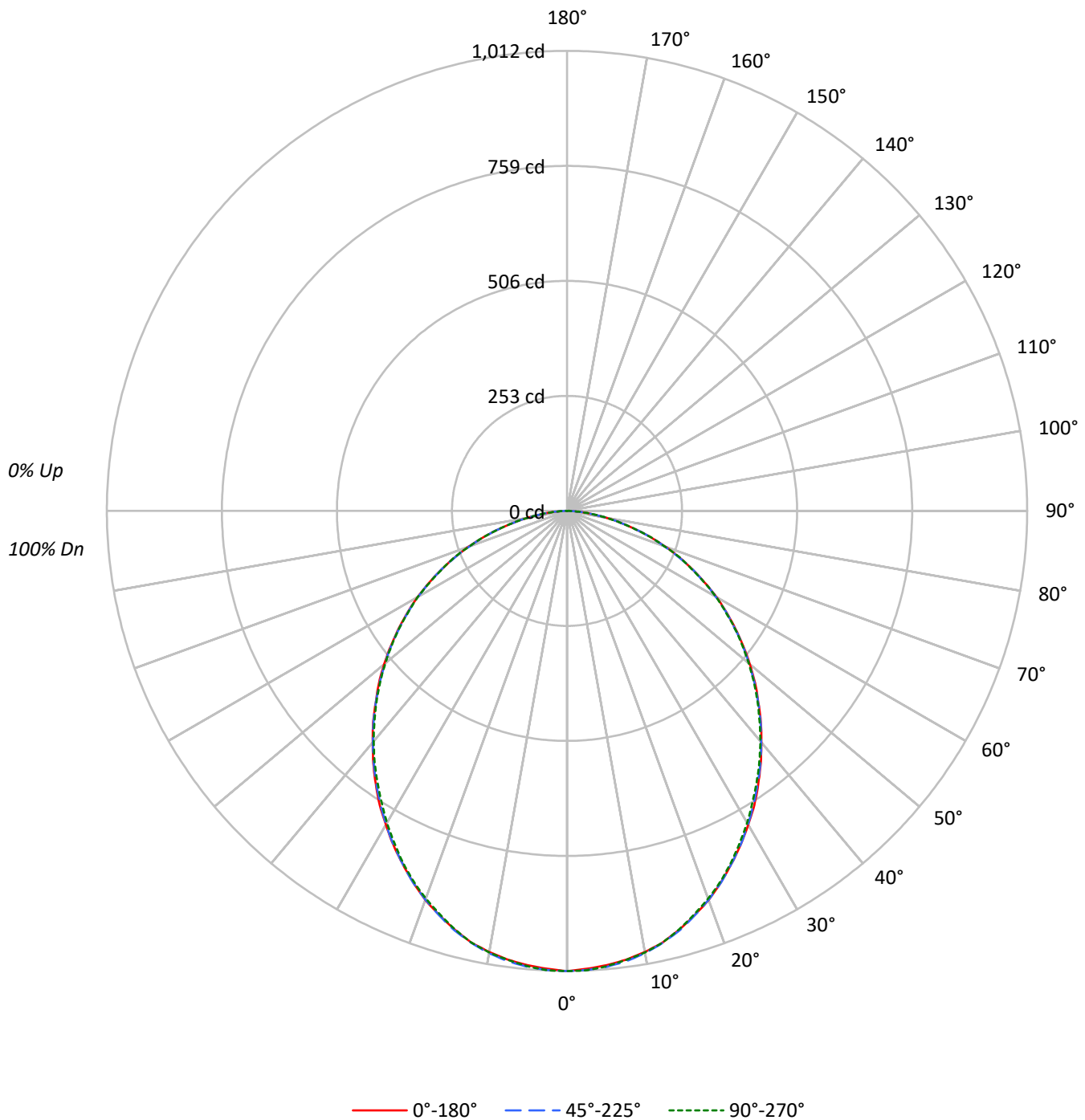
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2586.3 lumens
Efficiency: N/A
Efficacy: 75.0 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 (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°	2724	2724	2724
5°	2710	2719	2716
10°	2692	2699	2696
15°	2657	2662	2655
20°	2609	2607	2599
25°	2543	2543	2534
30°	2476	2474	2461
35°	2409	2402	2389
40°	2336	2333	2323
45°	2264	2262	2254
50°	2198	2189	2183
55°	2122	2112	2112
60°	2043	2035	2039
65°	1936	1941	1927
70°	1810	1799	1799
75°	1614	1621	1621
80°	1365	1365	1376
85°	1037	1037	1059



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.5	3.7
10°-20°	269.0	10.4
20°-30°	394.4	15.2
30°-40°	457.5	17.7
40°-50°	458.7	17.7
50°-60°	403.4	15.6
60°-70°	301.1	11.6
70°-80°	165.7	6.4
80°-90°	41.0	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°	758.8	29.3
0°-40°	1216.4	47.0
0°-60°	2078.5	80.4
0°-90°	2586.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2586.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1012	1012	1012	1012	1012	
5°	1003	1007	1007	1007	1005	95
15°	954	958	956	954	953	269
25°	856	860	856	856	854	395
35°	733	734	731	729	727	459
45°	595	597	594	594	592	460
55°	452	453	450	451	450	405
65°	304	304	305	303	303	301
75°	155	156	156	154	156	166
85°	34	34	34	34	34	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1012.3	1012.3	1012.3	1012.3	1012.3
2.5°	1008.1	1011.6	1010.9	1013.0	1011.6
5°	1003.2	1006.7	1006.7	1006.7	1005.3
7.5°	995.6	999.0	999.0	999.0	996.3
10°	985.1	988.6	987.9	987.9	986.5
12.5°	972.5	974.6	973.2	973.2	972.5
15°	953.6	957.8	955.7	954.3	952.9
17.5°	932.6	936.8	933.3	932.6	930.5
20°	911.0	913.8	910.3	910.3	907.5
22.5°	884.4	887.2	885.1	883.7	882.3
25°	856.4	859.9	856.4	855.7	853.6
27.5°	827.8	830.6	827.1	824.3	822.9
30°	797.0	799.1	796.3	794.2	792.1
32.5°	766.9	766.9	764.1	762.0	759.2
35°	733.4	734.1	731.3	729.2	727.1
37.5°	699.8	701.2	698.4	696.3	694.9
40°	664.9	666.3	664.2	662.1	661.4
42.5°	631.3	631.3	629.9	627.8	626.4
45°	595.0	597.1	594.3	593.6	592.2
47.5°	561.4	561.4	558.6	557.2	557.2
50°	525.0	526.4	522.9	522.2	521.5
52.5°	488.7	488.0	487.3	486.6	485.9
55°	452.3	453.0	450.2	450.9	450.2
57.5°	416.0	415.3	414.6	413.9	413.2
60°	379.6	378.9	378.2	377.5	378.9
62.5°	341.9	342.6	340.5	342.6	339.8
65°	304.1	304.1	304.8	303.4	302.7
67.5°	267.8	267.8	266.4	266.4	269.2
70°	230.0	230.7	228.6	231.4	228.6
72.5°	193.0	193.7	193.0	192.3	193.7
75°	155.2	155.9	155.9	154.5	155.9
77.5°	120.9	121.6	120.9	120.2	120.9
80°	88.1	88.8	88.1	87.4	88.8
82.5°	58.7	59.4	58.7	58.7	59.4
85°	33.6	34.3	33.6	33.6	34.3
87.5°	13.3	14.0	14.0	14.0	14.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)