

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: P489409

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-1LO-27-120-EDD**

Issue Date: 3/11/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P489409
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-115-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: CLM-24-4-INS-A12125-LD4-1LO-27-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

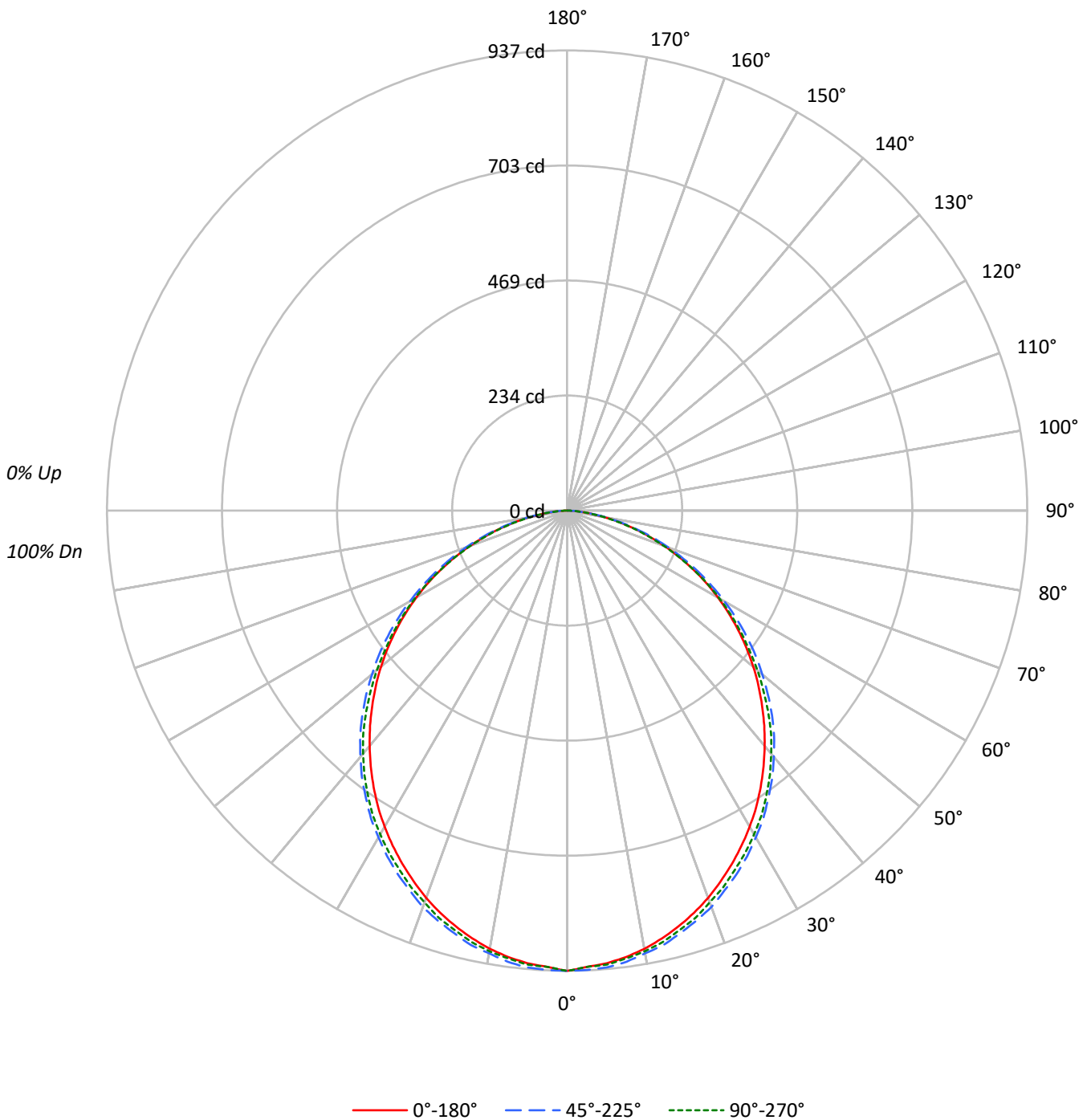
Lumens per Lamp: N/A
Luminaire Lumens: 2464.3 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
Input Voltage (V): NR
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	0
RW	70	50	30	10	70	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	100
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1261	1261	1261
5°	1249	1261	1254
10°	1238	1251	1245
15°	1221	1241	1232
20°	1202	1230	1215
25°	1178	1212	1199
30°	1155	1194	1183
35°	1128	1173	1162
40°	1099	1150	1135
45°	1068	1122	1101
50°	1036	1086	1058
55°	999	1045	1013
60°	956	996	965
65°	901	936	902
70°	829	862	820
75°	730	763	719
80°	594	619	587
85°	414	440	429



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.3	3.6
10°-20°	250.2	10.2
20°-30°	373.1	15.1
30°-40°	442.1	17.9
40°-50°	447.4	18.2
50°-60°	390.7	15.9
60°-70°	285.5	11.6
70°-80°	151.9	6.2
80°-90°	35.1	1.4
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°	711.5	28.9
0°-40°	1153.7	46.8
0°-60°	1991.8	80.8
0°-90°	2464.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2464.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	937	937	937	937	937	
5°	925	927	934	936	928	88
15°	876	882	891	896	884	247
25°	794	803	817	820	807	366
35°	687	698	714	719	708	430
45°	561	571	590	590	579	433
55°	426	434	446	439	432	381
65°	283	289	294	288	283	280
75°	140	144	147	141	138	149
85°	27	27	28	29	28	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	937.3	937.3	937.3	937.3	937.3
2.5°	930.0	933.0	936.2	937.5	929.9
5°	925.1	926.9	933.8	936.0	928.1
7.5°	917.1	919.8	926.5	927.5	919.9
10°	906.2	910.9	915.4	920.2	911.0
12.5°	892.2	898.6	906.2	907.1	900.0
15°	876.5	882.3	890.7	896.0	884.4
17.5°	858.9	864.6	875.3	876.3	869.3
20°	839.3	846.3	859.2	861.5	848.9
22.5°	817.0	826.5	837.2	839.4	830.1
25°	793.7	803.4	816.7	819.8	807.3
27.5°	769.3	778.6	793.6	795.7	785.3
30°	743.1	751.9	768.3	771.9	761.3
32.5°	716.5	725.3	743.5	746.5	736.2
35°	687.0	697.8	714.3	719.3	707.6
37.5°	657.0	667.4	686.2	690.6	678.1
40°	625.8	636.2	654.6	658.3	646.3
42.5°	594.0	604.3	624.0	624.6	614.7
45°	561.4	571.4	589.8	590.3	578.6
47.5°	528.4	538.5	554.9	553.0	542.1
50°	495.0	504.6	519.0	515.2	505.4
52.5°	460.5	469.7	483.3	477.3	468.0
55°	425.7	434.3	445.6	439.2	431.9
57.5°	390.6	399.3	408.0	401.5	395.2
60°	355.3	362.9	370.0	363.4	358.6
62.5°	319.3	325.9	332.0	325.7	321.2
65°	283.0	288.8	293.9	288.0	283.2
67.5°	246.9	251.8	256.5	250.4	245.4
70°	210.7	214.9	219.2	213.0	208.4
72.5°	175.1	178.8	182.6	176.6	172.6
75°	140.4	143.7	146.8	141.4	138.3
77.5°	107.3	110.1	112.2	108.8	105.8
80°	76.6	78.6	79.9	78.5	75.7
82.5°	49.2	50.7	51.4	51.3	49.4
85°	26.8	27.2	28.5	28.8	27.8
87.5°	10.4	11.0	11.3	12.2	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)