

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: P489413

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-1LO-35-120-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: P489413
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-35-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

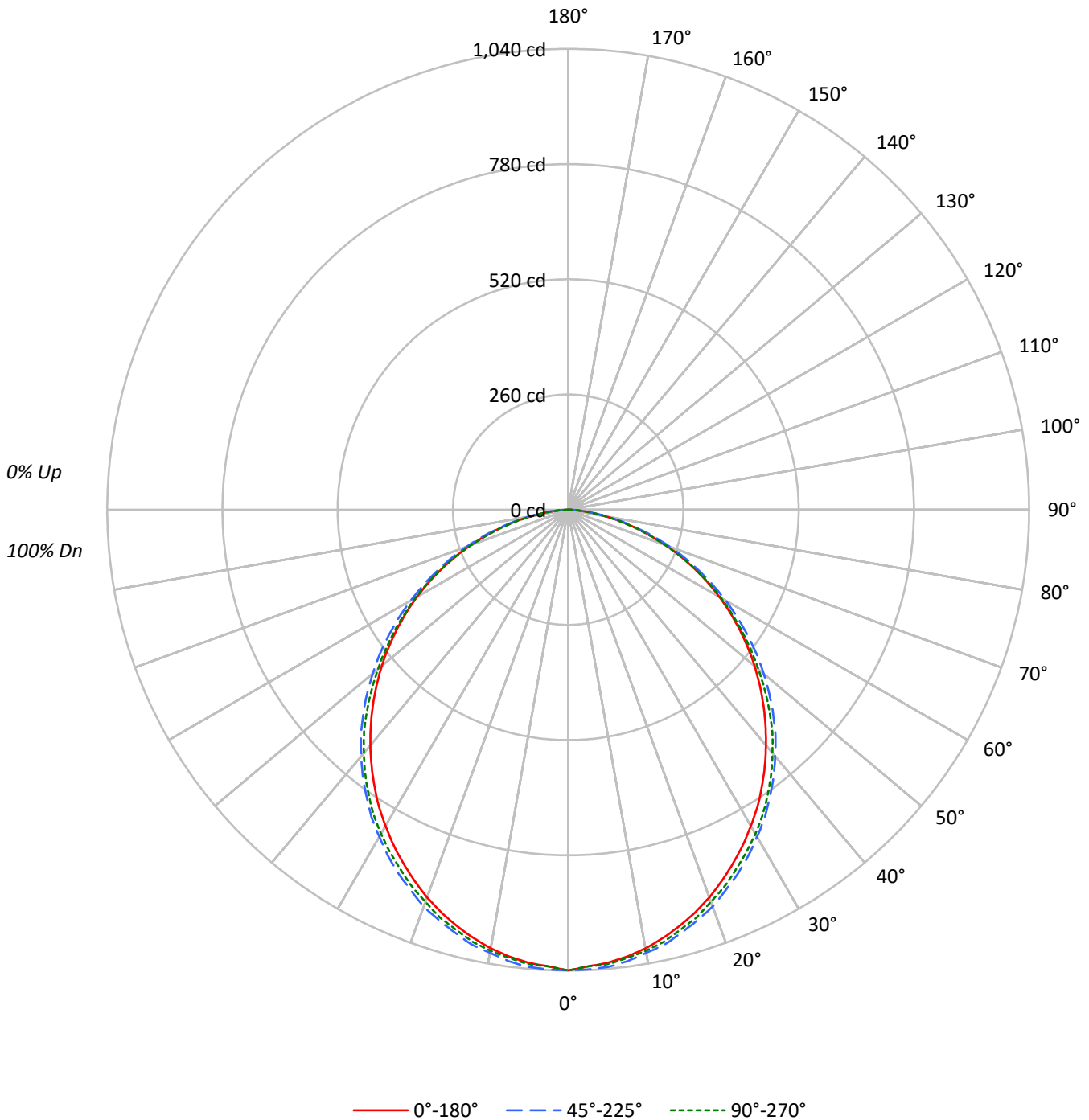
Lumens per Lamp: N/A
Luminaire Lumens: 2733.6 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1399	1399	1399
5°	1386	1399	1390
10°	1373	1387	1381
15°	1354	1376	1366
20°	1333	1365	1348
25°	1307	1345	1330
30°	1281	1324	1312
35°	1252	1301	1289
40°	1219	1275	1259
45°	1185	1245	1221
50°	1149	1205	1173
55°	1108	1160	1124
60°	1061	1105	1070
65°	999	1038	1000
70°	920	957	910
75°	810	846	797
80°	658	687	651
85°	459	488	477



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.9	3.6
10°-20°	277.5	10.2
20°-30°	413.9	15.1
30°-40°	490.4	17.9
40°-50°	496.3	18.2
50°-60°	433.4	15.9
60°-70°	316.7	11.6
70°-80°	168.5	6.2
80°-90°	38.9	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°	789.3	28.9
0°-40°	1279.7	46.8
0°-60°	2209.4	80.8
0°-90°	2733.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2733.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1040	1040	1040	1040	1040	
5°	1026	1028	1036	1038	1030	97
15°	972	979	988	994	981	274
25°	880	891	906	909	896	406
35°	762	774	792	798	785	477
45°	623	634	654	655	642	480
55°	472	482	494	487	479	422
65°	314	320	326	320	314	311
75°	156	159	163	157	153	166
85°	30	30	32	32	31	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1039.8	1039.8	1039.8	1039.8	1039.8
2.5°	1031.6	1035.0	1038.5	1040.0	1031.5
5°	1026.2	1028.2	1035.9	1038.2	1029.5
7.5°	1017.3	1020.3	1027.7	1028.8	1020.4
10°	1005.2	1010.4	1015.4	1020.8	1010.5
12.5°	989.7	996.8	1005.2	1006.2	998.4
15°	972.3	978.8	988.0	993.9	981.0
17.5°	952.8	959.1	971.0	972.1	964.3
20°	931.0	938.8	953.1	955.6	941.6
22.5°	906.3	916.8	928.7	931.1	920.8
25°	880.4	891.2	906.0	909.3	895.6
27.5°	853.3	863.7	880.3	882.7	871.1
30°	824.3	834.0	852.2	856.3	844.4
32.5°	794.8	804.6	824.7	828.1	816.6
35°	762.1	774.0	792.3	797.9	785.0
37.5°	728.7	740.3	761.1	766.1	752.3
40°	694.2	705.7	726.1	730.3	716.9
42.5°	658.9	670.4	692.2	692.9	681.8
45°	622.8	633.8	654.2	654.8	641.9
47.5°	586.2	597.3	615.5	613.5	601.3
50°	549.1	559.7	575.7	571.6	560.6
52.5°	510.8	521.1	536.1	529.4	519.1
55°	472.2	481.7	494.3	487.2	479.1
57.5°	433.3	443.0	452.6	445.4	438.4
60°	394.1	402.6	410.5	403.1	397.8
62.5°	354.2	361.5	368.3	361.3	356.3
65°	313.9	320.3	326.0	319.5	314.2
67.5°	273.9	279.3	284.5	277.8	272.2
70°	233.8	238.4	243.2	236.3	231.2
72.5°	194.2	198.4	202.6	195.9	191.4
75°	155.8	159.4	162.8	156.9	153.4
77.5°	119.1	122.1	124.5	120.7	117.3
80°	84.9	87.2	88.6	87.1	84.0
82.5°	54.6	56.2	57.0	56.9	54.8
85°	29.7	30.2	31.6	32.0	30.9
87.5°	11.5	12.2	12.6	13.5	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)