

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: P489777

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-1LO-50-120-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: P489777
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387254)
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-P12125-LD4-1LO-50-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

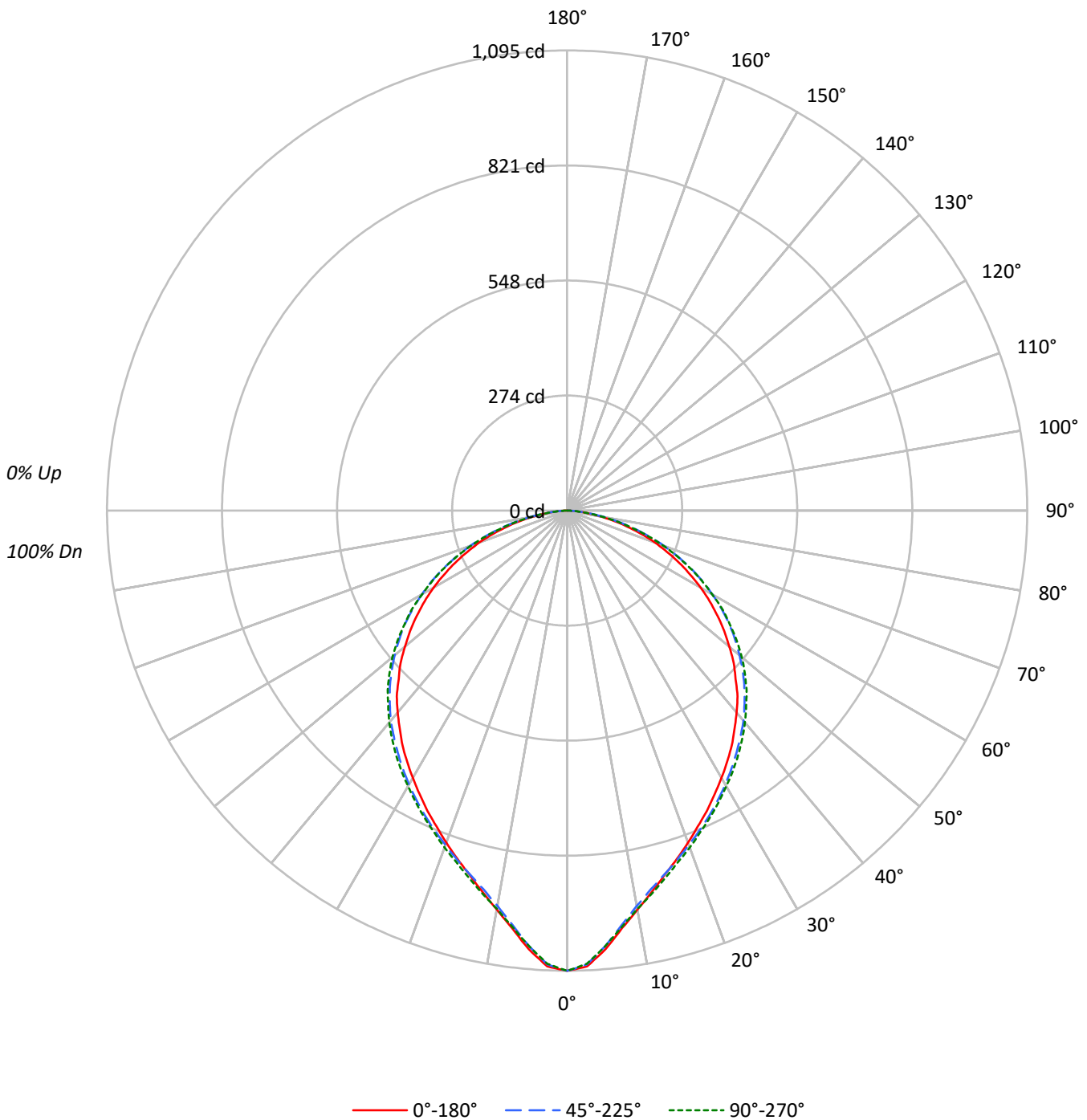
Lumens per Lamp: N/A
Luminaire Lumens: 2544.0 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1474	1474	1474
5°	1415	1405	1405
10°	1317	1305	1315
15°	1250	1247	1260
20°	1204	1212	1222
25°	1169	1188	1195
30°	1141	1169	1176
35°	1122	1154	1166
40°	1102	1146	1156
45°	1079	1135	1149
50°	1055	1121	1136
55°	1026	1105	1109
60°	989	1075	1072
65°	938	1033	1026
70°	875	963	952
75°	773	854	845
80°	628	696	662
85°	435	443	426



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.8	3.8
10°-20°	253.5	10.0
20°-30°	368.6	14.5
30°-40°	438.7	17.2
40°-50°	455.5	17.9
50°-60°	412.6	16.2
60°-70°	311.4	12.2
70°-80°	169.7	6.7
80°-90°	37.3	1.5
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°	718.9	28.3
0°-40°	1157.6	45.5
0°-60°	2025.7	79.6
0°-90°	2544.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2544.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1095	1095	1095	1095	1095	
5°	1048	1045	1040	1040	1040	97
15°	897	895	896	902	904	253
25°	788	794	800	807	805	363
35°	683	691	703	714	710	427
45°	567	577	597	603	604	438
55°	437	448	471	474	473	390
65°	294	303	325	324	322	291
75°	149	155	164	165	163	158
85°	28	28	29	28	28	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1095.2	1095.2	1095.2	1095.2	1095.2
2.5°	1085.6	1084.6	1081.0	1079.6	1079.3
5°	1047.6	1045.1	1040.2	1039.7	1040.2
7.5°	1002.2	999.4	994.5	996.4	998.9
10°	963.9	957.0	955.1	957.8	962.5
12.5°	929.6	924.2	922.5	929.6	933.0
15°	897.1	894.9	895.5	901.5	904.2
17.5°	868.9	867.5	871.1	875.7	877.1
20°	840.7	843.5	846.7	851.7	853.3
22.5°	813.1	818.3	823.8	830.3	828.1
25°	787.6	794.2	800.5	807.1	805.1
27.5°	760.5	768.2	777.0	784.1	781.3
30°	734.5	744.1	752.6	761.3	757.2
32.5°	708.8	717.8	728.0	738.6	734.0
35°	682.8	691.0	702.8	713.5	709.9
37.5°	654.1	664.2	677.6	686.9	684.5
40°	627.3	636.6	652.7	658.7	658.2
42.5°	600.2	607.8	624.8	631.6	630.5
45°	567.1	577.2	596.6	603.2	603.7
47.5°	537.8	546.3	567.1	572.2	573.3
50°	504.1	514.8	535.6	541.9	542.7
52.5°	471.0	482.5	503.8	508.2	509.0
55°	437.3	447.7	471.0	474.3	472.9
57.5°	402.0	414.6	436.0	437.6	439.0
60°	367.5	378.5	399.3	401.5	398.5
62.5°	330.1	341.3	362.6	363.2	360.7
65°	294.5	303.0	324.6	324.0	322.4
67.5°	257.2	267.6	283.5	284.1	282.7
70°	222.5	229.6	244.9	245.2	241.9
72.5°	185.0	192.7	205.0	203.3	202.5
75°	148.6	154.6	164.2	165.3	162.6
77.5°	115.2	119.6	126.7	125.9	122.9
80°	81.0	84.6	89.8	88.7	85.4
82.5°	51.7	53.9	57.2	55.8	54.5
85°	28.2	28.5	28.7	28.5	27.6
87.5°	10.4	10.7	10.7	10.4	9.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)