

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: P489335

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-4LO-20-120-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: P489335
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-24-2-INS-P12125-LD4-4LO-20-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

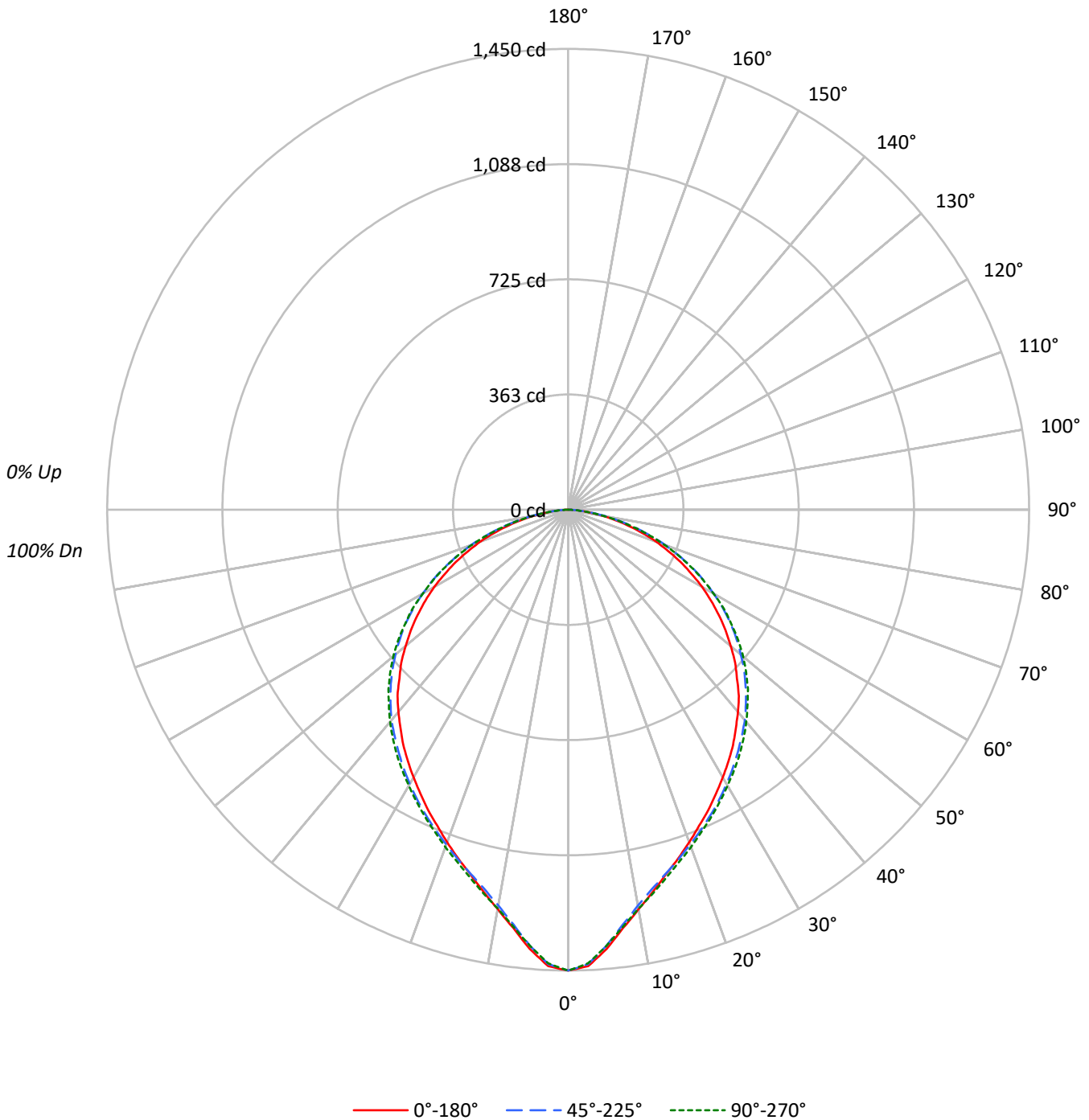
Lumens per Lamp: N/A
Luminaire Lumens: 3368.2 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
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

TEST NUMBER: P489335

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-4LO-20-120-EDD

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°	3902	3902	3902
5°	3747	3720	3720
10°	3487	3455	3482
15°	3309	3303	3335
20°	3188	3210	3235
25°	3096	3147	3165
30°	3022	3096	3115
35°	2970	3057	3088
40°	2917	3036	3061
45°	2857	3006	3042
50°	2794	2969	3008
55°	2716	2926	2937
60°	2619	2845	2840
65°	2483	2736	2718
70°	2318	2552	2520
75°	2045	2260	2237
80°	1661	1843	1751
85°	1152	1173	1130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.1	3.8
10°-20°	335.6	10.0
20°-30°	488.1	14.5
30°-40°	580.8	17.2
40°-50°	603.1	17.9
50°-60°	546.3	16.2
60°-70°	412.3	12.2
70°-80°	224.6	6.7
80°-90°	49.4	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°	951.8	28.3
0°-40°	1532.6	45.5
0°-60°	2682.0	79.6
0°-90°	3368.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3368.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1450	1450	1450	1450	1450	
5°	1387	1384	1377	1376	1377	129
15°	1188	1185	1186	1194	1197	335
25°	1043	1052	1060	1068	1066	481
35°	904	915	930	945	940	565
45°	751	764	790	799	799	580
55°	579	593	624	628	626	517
65°	390	401	430	429	427	385
75°	197	205	217	219	215	210
85°	37	38	38	38	37	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1450.1	1450.1	1450.1	1450.1	1450.1
2.5°	1437.4	1435.9	1431.2	1429.4	1429.0
5°	1387.0	1383.8	1377.2	1376.5	1377.2
7.5°	1326.9	1323.2	1316.7	1319.3	1322.5
10°	1276.1	1267.1	1264.5	1268.2	1274.3
12.5°	1230.8	1223.6	1221.4	1230.8	1235.2
15°	1187.7	1184.8	1185.6	1193.5	1197.1
17.5°	1150.4	1148.6	1153.3	1159.5	1161.3
20°	1113.1	1116.7	1121.1	1127.6	1129.8
22.5°	1076.5	1083.4	1090.6	1099.3	1096.4
25°	1042.8	1051.5	1059.8	1068.5	1066.0
27.5°	1006.9	1017.1	1028.7	1038.1	1034.5
30°	972.5	985.2	996.4	1008.0	1002.6
32.5°	938.5	950.4	963.8	977.9	971.8
35°	904.0	914.9	930.5	944.6	939.9
37.5°	866.0	879.4	897.1	909.4	906.2
40°	830.5	842.8	864.2	872.1	871.4
42.5°	794.6	804.8	827.2	836.3	834.8
45°	750.8	764.2	789.9	798.6	799.3
47.5°	712.0	723.2	750.8	757.6	759.1
50°	667.4	681.6	709.1	717.4	718.5
52.5°	623.6	638.8	667.1	672.8	674.0
55°	579.0	592.8	623.6	627.9	626.1
57.5°	532.3	548.9	577.2	579.4	581.2
60°	486.6	501.1	528.6	531.5	527.6
62.5°	437.0	451.8	480.1	480.8	477.5
65°	389.9	401.1	429.7	429.0	426.8
67.5°	340.6	354.3	375.4	376.1	374.3
70°	294.6	304.0	324.3	324.7	320.3
72.5°	244.9	255.1	271.4	269.2	268.1
75°	196.7	204.7	217.4	218.9	215.2
77.5°	152.5	158.3	167.8	166.7	162.7
80°	107.2	112.0	118.9	117.4	113.0
82.5°	68.5	71.4	75.7	73.9	72.1
85°	37.3	37.7	38.0	37.7	36.6
87.5°	13.8	14.1	14.1	13.8	12.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)