

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: P489346

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-4STD-20-120-EDD-90**

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: P489346
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-LD4-4STD-20-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

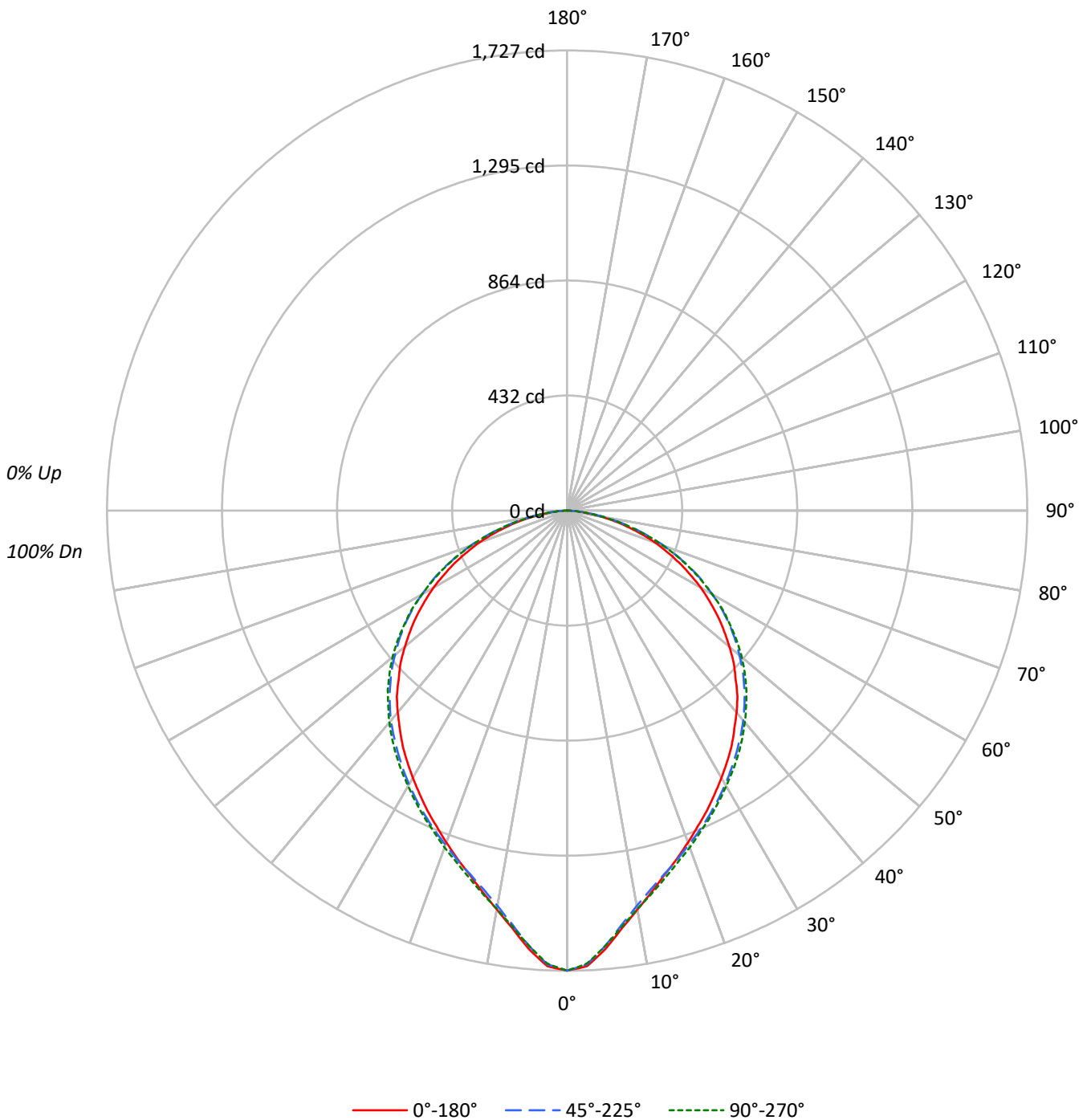
Lumens per Lamp: N/A
Luminaire Lumens: 4010.8 lumens
Efficiency: N/A
Efficacy: 60.2 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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°	4647	4647	4647
5°	4461	4430	4430
10°	4152	4115	4146
15°	3940	3933	3971
20°	3796	3823	3853
25°	3687	3747	3769
30°	3598	3687	3710
35°	3536	3640	3677
40°	3474	3615	3645
45°	3402	3580	3622
50°	3327	3535	3582
55°	3235	3483	3498
60°	3118	3388	3381
65°	2956	3258	3236
70°	2760	3039	3001
75°	2436	2692	2665
80°	1979	2193	2086
85°	1374	1399	1346



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.6	3.8
10°-20°	399.7	10.0
20°-30°	581.2	14.5
30°-40°	691.6	17.2
40°-50°	718.1	17.9
50°-60°	650.6	16.2
60°-70°	490.9	12.2
70°-80°	267.5	6.7
80°-90°	58.8	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°	1133.4	28.3
0°-40°	1825.0	45.5
0°-60°	3193.6	79.6
0°-90°	4010.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4010.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1727	1727	1727	1727	1727	
5°	1652	1648	1640	1639	1640	153
15°	1414	1411	1412	1421	1426	399
25°	1242	1252	1262	1272	1269	572
35°	1076	1089	1108	1125	1119	673
45°	894	910	941	951	952	691
55°	690	706	742	748	746	616
65°	464	478	512	511	508	459
75°	234	244	259	261	256	250
85°	44	45	45	45	44	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1726.7	1726.7	1726.7	1726.7	1726.7
2.5°	1711.6	1709.9	1704.3	1702.1	1701.7
5°	1651.6	1647.8	1640.0	1639.1	1640.0
7.5°	1580.0	1575.7	1567.9	1571.0	1574.8
10°	1519.6	1508.8	1505.8	1510.1	1517.4
12.5°	1465.7	1457.0	1454.4	1465.7	1470.9
15°	1414.3	1410.9	1411.7	1421.2	1425.5
17.5°	1369.9	1367.7	1373.3	1380.7	1382.8
20°	1325.4	1329.8	1334.9	1342.7	1345.3
22.5°	1281.9	1290.1	1298.7	1309.1	1305.6
25°	1241.8	1252.1	1262.0	1272.4	1269.4
27.5°	1199.0	1211.1	1224.9	1236.1	1231.8
30°	1158.0	1173.1	1186.5	1200.3	1193.9
32.5°	1117.5	1131.7	1147.7	1164.5	1157.2
35°	1076.5	1089.4	1108.0	1124.8	1119.2
37.5°	1031.2	1047.2	1068.3	1083.0	1079.1
40°	988.9	1003.6	1029.0	1038.5	1037.7
42.5°	946.2	958.3	985.0	995.8	994.1
45°	894.0	910.0	940.6	951.0	951.8
47.5°	847.8	861.2	894.0	902.2	903.9
50°	794.8	811.6	844.4	854.3	855.6
52.5°	742.5	760.6	794.3	801.2	802.5
55°	689.5	705.9	742.5	747.7	745.6
57.5°	633.8	653.7	687.3	689.9	692.1
60°	579.4	596.7	629.5	632.9	628.2
62.5°	520.4	538.0	571.7	572.5	568.7
65°	464.2	477.6	511.7	510.9	508.2
67.5°	405.6	422.0	447.0	447.8	445.7
70°	350.8	362.0	386.2	386.6	381.4
72.5°	291.7	303.7	323.1	320.6	319.3
75°	234.3	243.8	258.9	260.6	256.3
77.5°	181.7	188.5	199.8	198.5	193.7
80°	127.7	133.3	141.5	139.8	134.6
82.5°	81.5	85.0	90.2	88.0	85.9
85°	44.5	44.9	45.3	44.9	43.6
87.5°	16.4	16.8	16.8	16.4	15.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)