

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: P489301

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-3LO-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: P489301
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-LD4-3LO-27-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

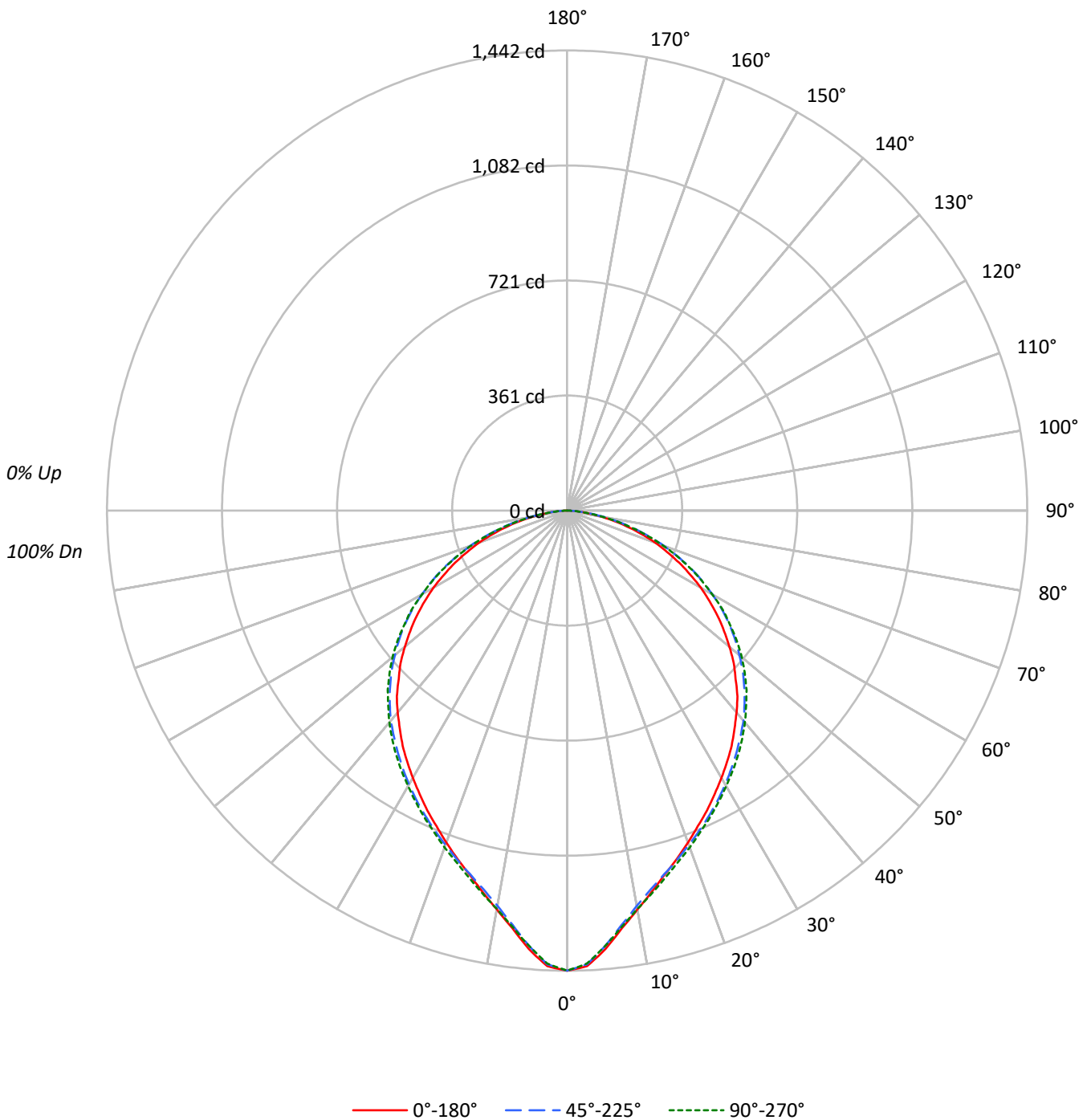
Lumens per Lamp: N/A
Luminaire Lumens: 3349.1 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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°	3880	3880	3880
5°	3726	3699	3699
10°	3467	3436	3462
15°	3290	3284	3316
20°	3170	3192	3217
25°	3079	3129	3147
30°	3005	3079	3098
35°	2953	3039	3070
40°	2901	3019	3044
45°	2841	2989	3025
50°	2778	2952	2991
55°	2701	2909	2921
60°	2604	2829	2823
65°	2468	2721	2702
70°	2305	2537	2506
75°	2034	2248	2225
80°	1652	1832	1742
85°	1145	1167	1124



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.4	3.8
10°-20°	333.7	10.0
20°-30°	485.3	14.5
30°-40°	577.5	17.2
40°-50°	599.6	17.9
50°-60°	543.2	16.2
60°-70°	409.9	12.2
70°-80°	223.3	6.7
80°-90°	49.1	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°	946.4	28.3
0°-40°	1523.9	45.5
0°-60°	2666.8	79.6
0°-90°	3349.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3349.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1442	1442	1442	1442	1442	
5°	1379	1376	1369	1369	1369	128
15°	1181	1178	1179	1187	1190	333
25°	1037	1046	1054	1062	1060	478
35°	899	910	925	939	935	562
45°	746	760	785	794	795	577
55°	576	589	620	624	623	514
65°	388	399	427	427	424	383
75°	196	204	216	218	214	208
85°	37	38	38	38	36	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1441.8	1441.8	1441.8	1441.8	1441.8
2.5°	1429.2	1427.8	1423.1	1421.3	1420.9
5°	1379.2	1375.9	1369.4	1368.7	1369.4
7.5°	1319.3	1315.7	1309.3	1311.8	1315.0
10°	1268.9	1259.9	1257.4	1261.0	1267.1
12.5°	1223.9	1216.7	1214.5	1223.9	1228.2
15°	1181.0	1178.1	1178.8	1186.8	1190.4
17.5°	1143.9	1142.1	1146.8	1152.9	1154.7
20°	1106.8	1110.4	1114.7	1121.2	1123.3
22.5°	1070.4	1077.2	1084.5	1093.1	1090.2
25°	1036.9	1045.5	1053.8	1062.5	1060.0
27.5°	1001.2	1011.3	1022.8	1032.2	1028.6
30°	967.0	979.6	990.8	1002.3	996.9
32.5°	933.1	945.0	958.3	972.4	966.3
35°	898.9	909.7	925.2	939.3	934.6
37.5°	861.1	874.4	892.0	904.3	901.1
40°	825.8	838.0	859.3	867.2	866.5
42.5°	790.1	800.2	822.5	831.5	830.1
45°	746.5	759.8	785.4	794.1	794.8
47.5°	708.0	719.1	746.5	753.3	754.8
50°	663.6	677.7	705.1	713.3	714.4
52.5°	620.0	635.2	663.3	669.0	670.1
55°	575.7	589.4	620.0	624.4	622.6
57.5°	529.3	545.8	573.9	576.1	577.9
60°	483.8	498.3	525.6	528.5	524.6
62.5°	434.5	449.3	477.4	478.1	474.8
65°	387.6	398.8	427.3	426.6	424.4
67.5°	338.6	352.3	373.3	374.0	372.2
70°	292.9	302.3	322.4	322.8	318.5
72.5°	243.6	253.6	269.8	267.7	266.6
75°	195.6	203.6	216.2	217.6	214.0
77.5°	151.7	157.4	166.8	165.7	161.8
80°	106.6	111.3	118.2	116.7	112.4
82.5°	68.1	71.0	75.3	73.5	71.7
85°	37.1	37.5	37.8	37.5	36.4
87.5°	13.7	14.1	14.1	13.7	12.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)