

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: P489283

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-2STD-40-120-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: P489283
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-LD4-2STD-40-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

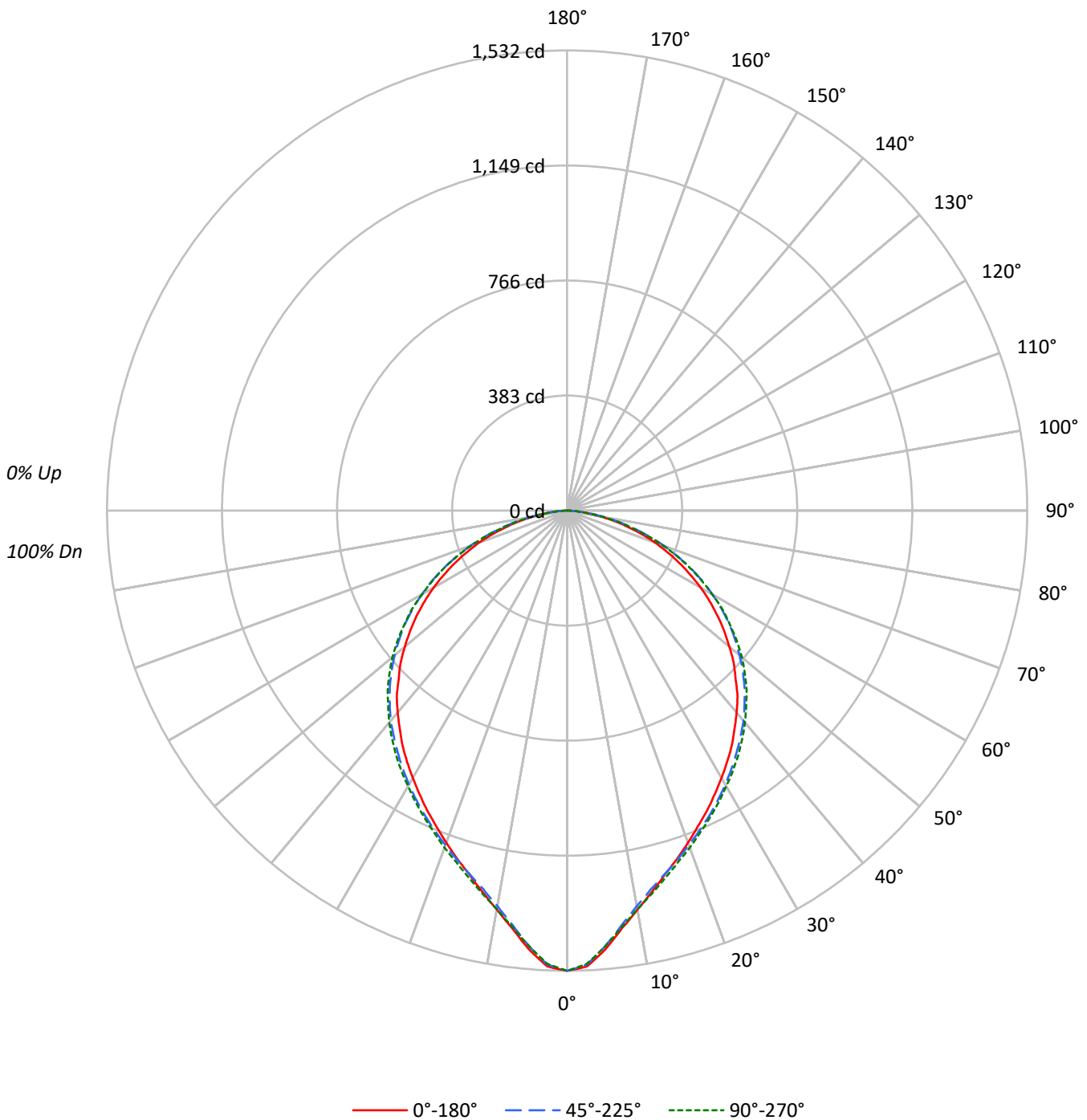
Lumens per Lamp: N/A
Luminaire Lumens: 3559.7 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	4124	4124	4124
5°	3960	3932	3932
10°	3685	3652	3680
15°	3497	3491	3525
20°	3369	3393	3419
25°	3272	3326	3345
30°	3194	3272	3292
35°	3139	3231	3263
40°	3083	3208	3235
45°	3019	3177	3215
50°	2953	3137	3179
55°	2871	3092	3104
60°	2768	3007	3001
65°	2623	2891	2872
70°	2449	2696	2663
75°	2162	2389	2365
80°	1756	1946	1852
85°	1220	1241	1195



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.4	3.8
10°-20°	354.7	10.0
20°-30°	515.8	14.5
30°-40°	613.8	17.2
40°-50°	637.3	17.9
50°-60°	577.4	16.2
60°-70°	435.7	12.2
70°-80°	237.4	6.7
80°-90°	52.2	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°	1005.9	28.3
0°-40°	1619.7	45.5
0°-60°	2834.4	79.6
0°-90°	3559.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3559.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1532	1532	1532	1532	1532	
5°	1466	1462	1456	1455	1456	136
15°	1255	1252	1253	1261	1265	354
25°	1102	1111	1120	1129	1127	508
35°	955	967	983	998	993	597
45°	793	808	835	844	845	613
55°	612	626	659	664	662	546
65°	412	424	454	453	451	407
75°	208	216	230	231	228	221
85°	40	40	40	40	39	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1532.5	1532.5	1532.5	1532.5	1532.5
2.5°	1519.1	1517.6	1512.6	1510.7	1510.3
5°	1465.9	1462.4	1455.5	1454.8	1455.5
7.5°	1402.3	1398.5	1391.6	1394.3	1397.7
10°	1348.7	1339.1	1336.4	1340.3	1346.8
12.5°	1300.8	1293.2	1290.9	1300.8	1305.4
15°	1255.2	1252.2	1253.0	1261.4	1265.2
17.5°	1215.8	1213.9	1218.9	1225.4	1227.3
20°	1176.4	1180.2	1184.8	1191.7	1194.0
22.5°	1137.7	1145.0	1152.6	1161.8	1158.8
25°	1102.1	1111.3	1120.1	1129.3	1126.6
27.5°	1064.2	1074.9	1087.2	1097.1	1093.3
30°	1027.8	1041.2	1053.1	1065.3	1059.6
32.5°	991.8	1004.4	1018.6	1033.5	1027.0
35°	955.4	966.9	983.4	998.3	993.3
37.5°	915.2	929.4	948.1	961.1	957.7
40°	877.7	890.7	913.3	921.7	920.9
42.5°	839.8	850.5	874.2	883.8	882.3
45°	793.4	807.6	834.8	844.0	844.7
47.5°	752.5	764.3	793.4	800.7	802.2
50°	705.4	720.3	749.4	758.2	759.4
52.5°	659.0	675.1	705.0	711.1	712.3
55°	611.9	626.5	659.0	663.6	661.7
57.5°	562.5	580.1	610.0	612.3	614.2
60°	514.3	529.6	558.7	561.8	557.6
62.5°	461.8	477.5	507.4	508.1	504.7
65°	412.0	423.9	454.1	453.4	451.1
67.5°	359.9	374.5	396.7	397.5	395.6
70°	311.3	321.3	342.7	343.1	338.5
72.5°	258.9	269.6	286.8	284.5	283.4
75°	207.9	216.4	229.8	231.3	227.5
77.5°	161.2	167.3	177.3	176.2	171.9
80°	113.3	118.3	125.6	124.1	119.5
82.5°	72.4	75.5	80.0	78.1	76.2
85°	39.5	39.8	40.2	39.8	38.7
87.5°	14.6	14.9	14.9	14.6	13.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)