

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: P489257

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-2HI-35-120-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: P489257  
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-LD4-2HI-35-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

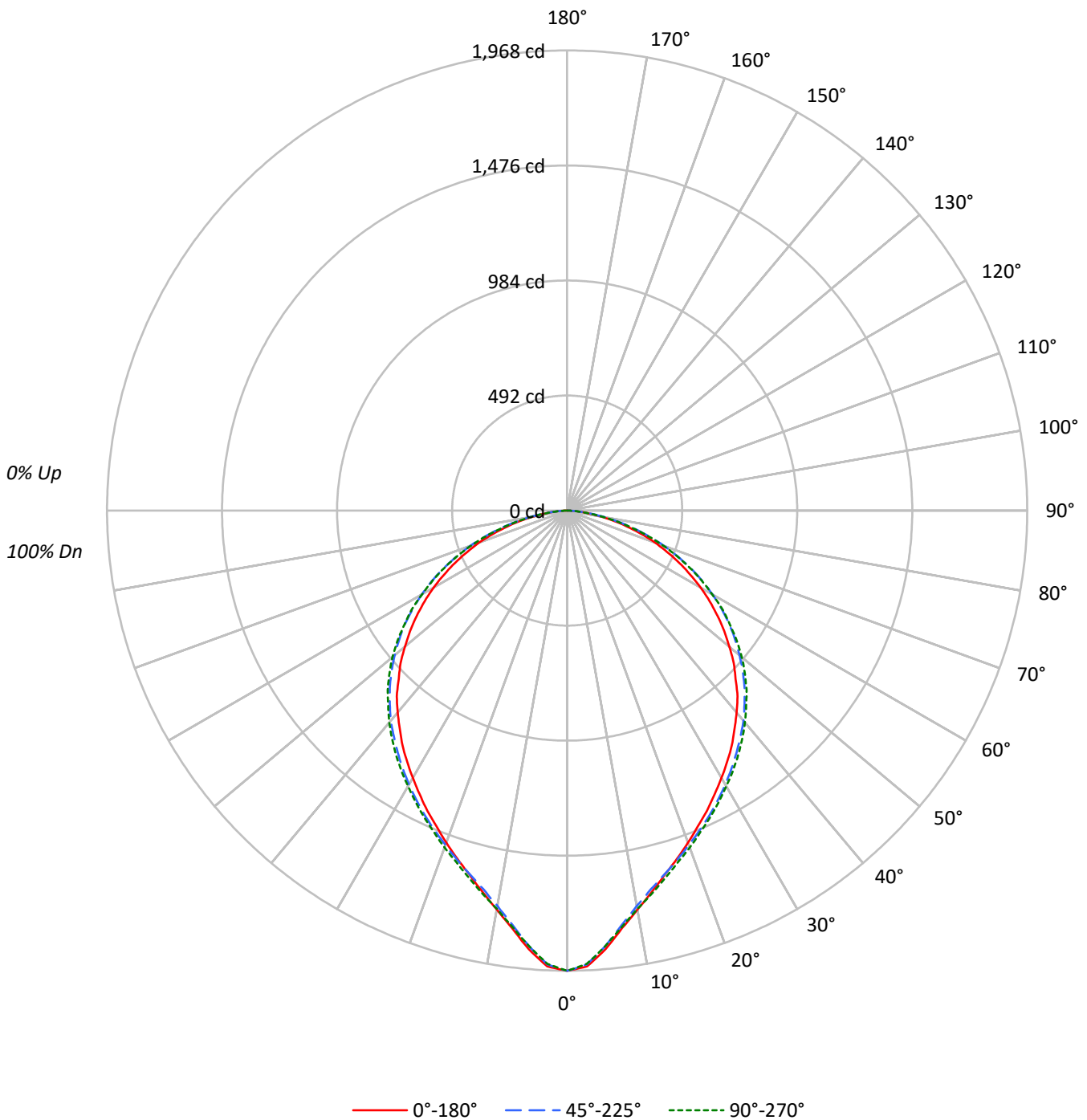
Lumens per Lamp: N/A  
Luminaire Lumens: 4572.3 lumens  
Efficiency: N/A  
Efficacy: 105.8 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 43.2  
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°	5297	5297	5297
5°	5086	5050	5050
10°	4733	4691	4727
15°	4492	4484	4527
20°	4327	4358	4392
25°	4203	4272	4297
30°	4102	4203	4229
35°	4031	4149	4191
40°	3960	4121	4155
45°	3879	4081	4129
50°	3793	4030	4083
55°	3688	3971	3988
60°	3555	3862	3855
65°	3370	3714	3689
70°	3146	3463	3421
75°	2777	3068	3038
80°	2256	2500	2377
85°	1565	1593	1535



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	173.9	3.8
10°-20°	455.6	10.0
20°-30°	662.5	14.5
30°-40°	788.4	17.2
40°-50°	818.6	17.9
50°-60°	741.6	16.2
60°-70°	559.6	12.2
70°-80°	304.9	6.7
80°-90°	67.0	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°	1292.1	28.3
0°-40°	2080.5	45.5
0°-60°	3640.8	79.6
0°-90°	4572.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4572.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1968	1968	1968	1968	1968	
5°	1883	1878	1870	1869	1870	175
15°	1612	1608	1609	1620	1625	455
25°	1416	1427	1439	1450	1447	652
35°	1227	1242	1263	1282	1276	767
45°	1019	1037	1072	1084	1085	788
55°	786	805	846	852	850	702
65°	529	544	583	582	579	523
75°	267	278	295	297	292	285
85°	51	51	52	51	50	64
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1968.4	1968.4	1968.4	1968.4	1968.4
2.5°	1951.2	1949.3	1942.9	1940.4	1939.9
5°	1882.9	1878.4	1869.6	1868.6	1869.6
7.5°	1801.2	1796.3	1787.5	1790.9	1795.3
10°	1732.3	1720.1	1716.6	1721.5	1729.9
12.5°	1670.8	1661.0	1658.1	1670.8	1676.8
15°	1612.3	1608.4	1609.4	1620.2	1625.1
17.5°	1561.7	1559.2	1565.6	1574.0	1576.4
20°	1511.0	1515.9	1521.8	1530.7	1533.6
22.5°	1461.3	1470.7	1480.5	1492.3	1488.4
25°	1415.6	1427.4	1438.7	1450.5	1447.1
27.5°	1366.9	1380.6	1396.4	1409.2	1404.3
30°	1320.1	1337.4	1352.6	1368.4	1361.0
32.5°	1273.9	1290.2	1308.4	1327.5	1319.2
35°	1227.2	1242.0	1263.1	1282.3	1275.9
37.5°	1175.6	1193.8	1217.8	1234.6	1230.2
40°	1127.4	1144.1	1173.1	1183.9	1182.9
42.5°	1078.7	1092.4	1122.9	1135.2	1133.3
45°	1019.2	1037.3	1072.3	1084.1	1085.0
47.5°	966.5	981.8	1019.2	1028.5	1030.4
50°	906.0	925.2	962.6	973.9	975.4
52.5°	846.5	867.1	905.5	913.4	914.9
55°	786.0	804.7	846.5	852.4	850.0
57.5°	722.6	745.2	783.6	786.5	789.0
60°	660.6	680.2	717.6	721.6	716.2
62.5°	593.2	613.3	651.7	652.7	648.3
65°	529.2	544.5	583.3	582.4	579.4
67.5°	462.3	481.0	509.6	510.5	508.1
70°	399.9	412.7	440.2	440.7	434.8
72.5°	332.5	346.3	368.4	365.5	364.0
75°	267.1	277.9	295.1	297.1	292.2
77.5°	207.1	214.9	227.7	226.3	220.8
80°	145.6	152.0	161.3	159.4	153.4
82.5°	92.9	96.9	102.8	100.3	97.9
85°	50.7	51.1	51.6	51.1	49.7
87.5°	18.7	19.2	19.2	18.7	17.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)