

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: P489789

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-1STD-50-120-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: P489789  
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-24-4-INS-P12125-LD4-1STD-50-120-EDD  
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

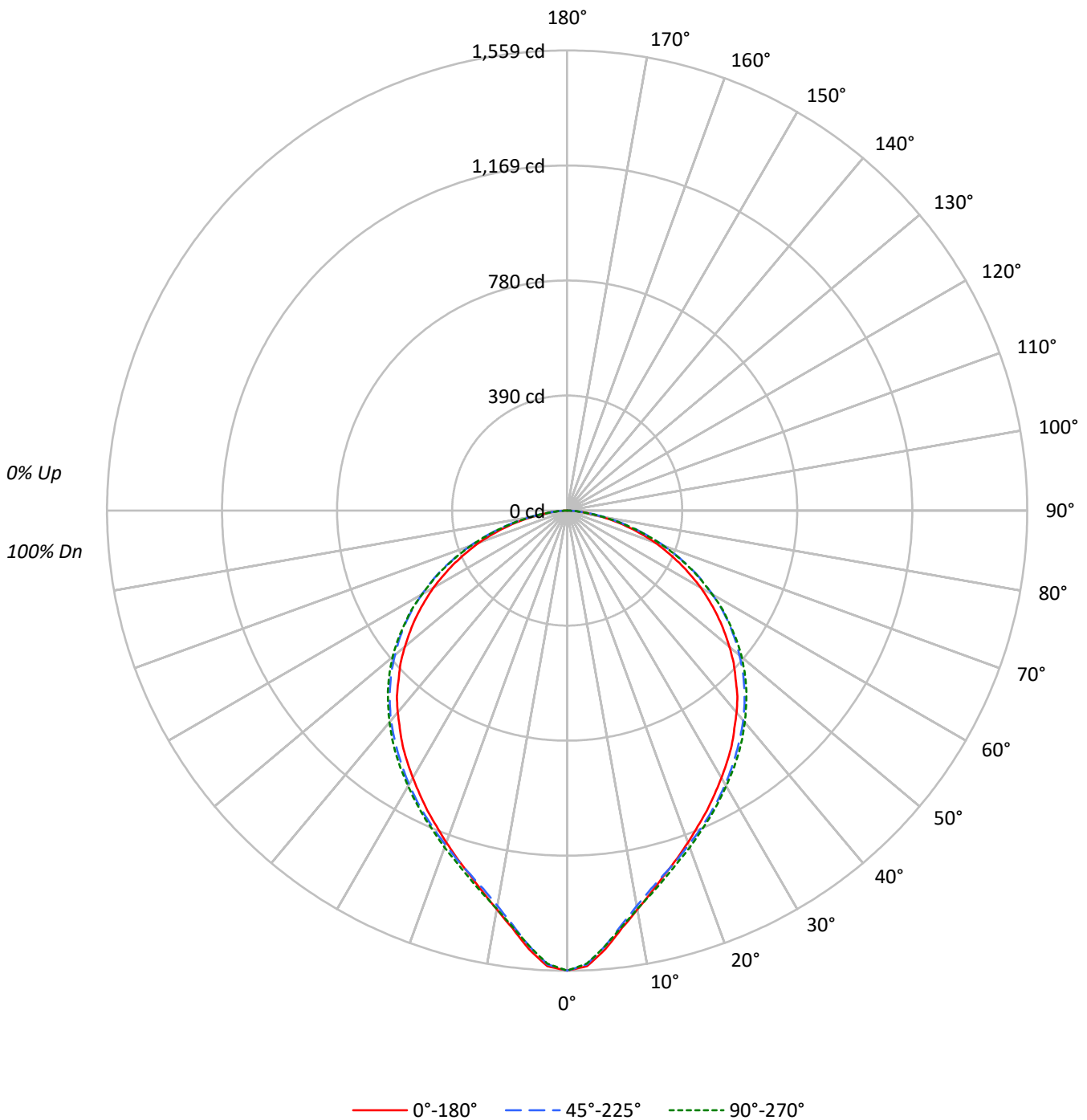
Lumens per Lamp: N/A  
Luminaire Lumens: 3620.2 lumens  
Efficiency: N/A  
Efficacy: 108.7 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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°	2097	2097	2097
5°	2014	1999	1999
10°	1874	1857	1871
15°	1778	1775	1792
20°	1713	1725	1739
25°	1664	1691	1701
30°	1624	1664	1674
35°	1596	1643	1659
40°	1568	1631	1645
45°	1535	1615	1635
50°	1502	1595	1617
55°	1460	1572	1579
60°	1407	1529	1526
65°	1334	1471	1461
70°	1245	1371	1354
75°	1099	1215	1202
80°	893	989	941
85°	619	631	607



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.7	3.8
10°-20°	360.7	10.0
20°-30°	524.6	14.5
30°-40°	624.2	17.2
40°-50°	648.2	17.9
50°-60°	587.2	16.2
60°-70°	443.1	12.2
70°-80°	241.4	6.7
80°-90°	53.0	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°	1023.0	28.3
0°-40°	1647.2	45.5
0°-60°	2882.6	79.6
0°-90°	3620.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3620.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1559	1559	1559	1559	1559	
5°	1491	1487	1480	1480	1480	138
15°	1277	1274	1274	1283	1287	360
25°	1121	1130	1139	1148	1146	516
35°	972	983	1000	1015	1010	607
45°	807	821	849	858	859	624
55°	622	637	670	675	673	556
65°	419	431	462	461	459	414
75°	212	220	234	235	231	225
85°	40	40	41	40	39	51
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1558.6	1558.6	1558.6	1558.6	1558.6
2.5°	1544.9	1543.4	1538.3	1536.3	1535.9
5°	1490.8	1487.3	1480.3	1479.5	1480.3
7.5°	1426.1	1422.2	1415.2	1418.0	1421.5
10°	1371.6	1361.9	1359.1	1363.0	1369.7
12.5°	1322.9	1315.1	1312.8	1322.9	1327.6
15°	1276.6	1273.5	1274.3	1282.8	1286.7
17.5°	1236.5	1234.5	1239.6	1246.2	1248.2
20°	1196.4	1200.3	1204.9	1212.0	1214.3
22.5°	1157.0	1164.4	1172.2	1181.6	1178.5
25°	1120.8	1130.2	1139.1	1148.5	1145.8
27.5°	1082.3	1093.1	1105.6	1115.8	1111.9
30°	1045.2	1058.9	1071.0	1083.4	1077.6
32.5°	1008.7	1021.5	1035.9	1051.1	1044.5
35°	971.7	983.3	1000.1	1015.3	1010.2
37.5°	930.8	945.2	964.2	977.5	974.0
40°	892.6	905.8	928.8	937.4	936.6
42.5°	854.0	865.0	889.1	898.8	897.3
45°	806.9	821.3	849.0	858.3	859.1
47.5°	765.3	777.3	806.9	814.3	815.9
50°	717.4	732.6	762.1	771.1	772.3
52.5°	670.2	686.6	717.0	723.2	724.4
55°	622.3	637.1	670.2	674.9	673.0
57.5°	572.1	590.0	620.4	622.7	624.7
60°	523.0	538.6	568.2	571.3	567.0
62.5°	469.7	485.6	516.0	516.8	513.3
65°	419.0	431.1	461.9	461.1	458.8
67.5°	366.1	380.9	403.5	404.2	402.3
70°	316.6	326.7	348.5	348.9	344.3
72.5°	263.3	274.2	291.7	289.4	288.2
75°	211.5	220.0	233.7	235.2	231.3
77.5°	164.0	170.2	180.3	179.2	174.9
80°	115.3	120.3	127.7	126.2	121.5
82.5°	73.6	76.7	81.4	79.4	77.5
85°	40.1	40.5	40.9	40.5	39.3
87.5°	14.8	15.2	15.2	14.8	13.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)