

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: P489305

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-3LO-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: P489305  
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-35-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

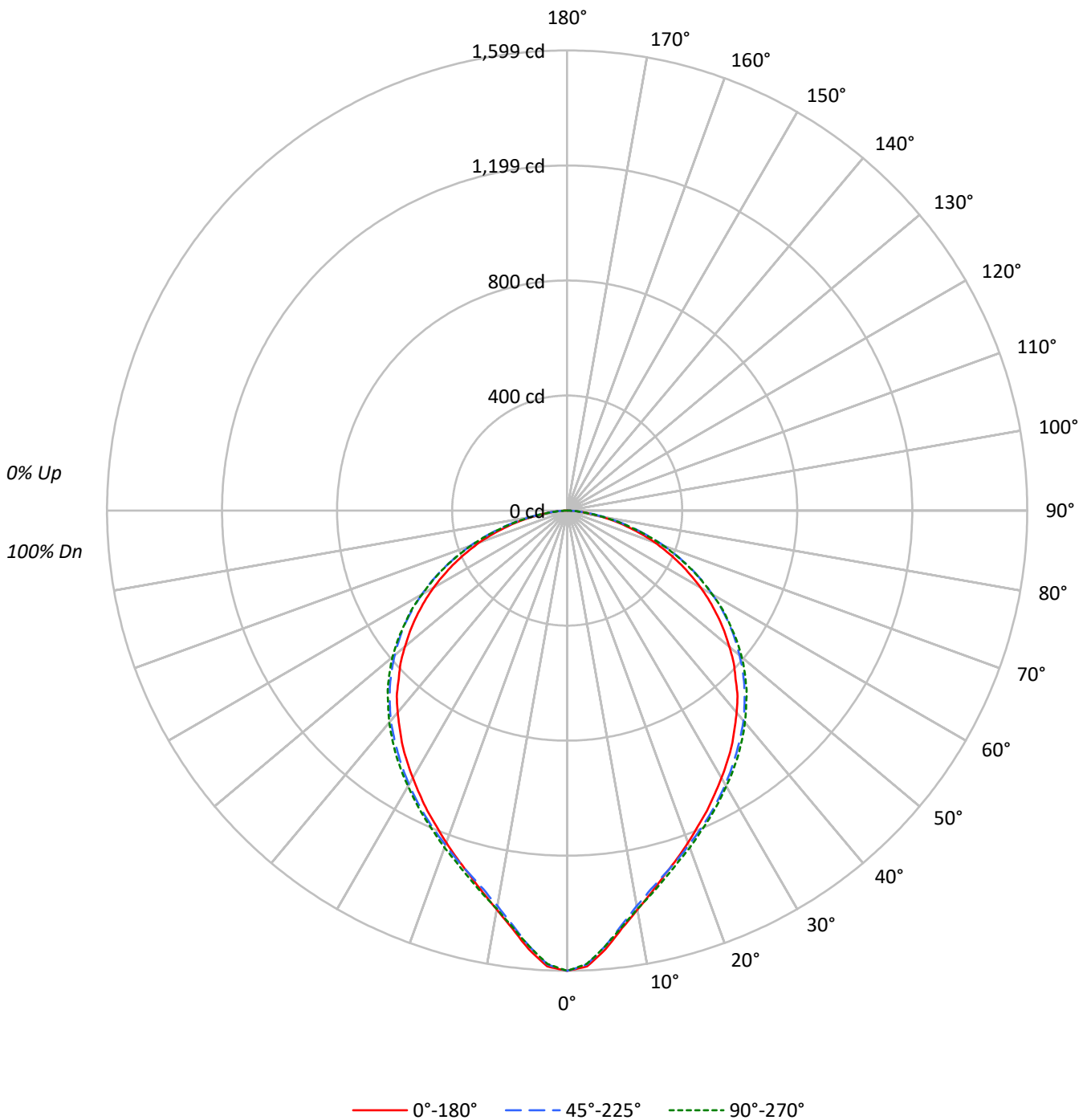
Lumens per Lamp: N/A  
Luminaire Lumens: 3715.0 lumens  
Efficiency: N/A  
Efficacy: 105.8 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 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°	4304	4304	4304
5°	4132	4103	4103
10°	3846	3811	3841
15°	3650	3643	3679
20°	3516	3541	3568
25°	3415	3471	3491
30°	3333	3415	3436
35°	3276	3371	3406
40°	3218	3348	3376
45°	3151	3315	3355
50°	3082	3274	3318
55°	2996	3227	3240
60°	2888	3138	3132
65°	2738	3018	2998
70°	2556	2814	2780
75°	2256	2493	2468
80°	1833	2032	1932
85°	1272	1297	1247



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.3	3.8
10°-20°	370.2	10.0
20°-30°	538.3	14.5
30°-40°	640.6	17.2
40°-50°	665.1	17.9
50°-60°	602.6	16.2
60°-70°	454.7	12.2
70°-80°	247.7	6.7
80°-90°	54.4	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°	1049.8	28.3
0°-40°	1690.4	45.5
0°-60°	2958.1	79.6
0°-90°	3715.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3715.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1599	1599	1599	1599	1599	
5°	1530	1526	1519	1518	1519	142
15°	1310	1307	1308	1316	1320	370
25°	1150	1160	1169	1178	1176	530
35°	997	1009	1026	1042	1037	623
45°	828	843	871	881	882	640
55°	639	654	688	693	691	570
65°	430	442	474	473	471	425
75°	217	226	240	241	237	231
85°	41	42	42	42	40	52
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1599.4	1599.4	1599.4	1599.4	1599.4
2.5°	1585.4	1583.8	1578.6	1576.6	1576.2
5°	1529.8	1526.2	1519.0	1518.2	1519.0
7.5°	1463.5	1459.5	1452.3	1455.1	1458.7
10°	1407.5	1397.5	1394.7	1398.7	1405.5
12.5°	1357.6	1349.6	1347.2	1357.6	1362.4
15°	1310.0	1306.8	1307.6	1316.4	1320.4
17.5°	1268.9	1266.9	1272.1	1278.9	1280.9
20°	1227.7	1231.7	1236.5	1243.7	1246.1
22.5°	1187.3	1194.9	1202.9	1212.5	1209.3
25°	1150.2	1159.8	1169.0	1178.5	1175.8
27.5°	1110.6	1121.8	1134.6	1145.0	1141.0
30°	1072.6	1086.6	1099.0	1111.8	1105.8
32.5°	1035.1	1048.3	1063.0	1078.6	1071.8
35°	997.1	1009.1	1026.3	1041.9	1036.7
37.5°	955.1	969.9	989.5	1003.1	999.5
40°	916.0	929.6	953.1	961.9	961.1
42.5°	876.4	887.6	912.4	922.4	920.8
45°	828.1	842.8	871.2	880.8	881.6
47.5°	785.3	797.7	828.1	835.6	837.2
50°	736.1	751.7	782.1	791.3	792.5
52.5°	687.8	704.5	735.7	742.1	743.3
55°	638.6	653.8	687.8	692.6	690.6
57.5°	587.1	605.5	636.6	639.0	641.0
60°	536.7	552.7	583.1	586.3	581.9
62.5°	482.0	498.3	529.5	530.3	526.7
65°	430.0	442.4	474.0	473.2	470.8
67.5°	375.6	390.8	414.0	414.8	412.8
70°	324.9	335.3	357.7	358.1	353.3
72.5°	270.2	281.3	299.3	296.9	295.7
75°	217.0	225.8	239.8	241.4	237.4
77.5°	168.3	174.6	185.0	183.8	179.4
80°	118.3	123.5	131.1	129.5	124.7
82.5°	75.5	78.7	83.5	81.5	79.5
85°	41.2	41.5	42.0	41.5	40.4
87.5°	15.2	15.6	15.6	15.2	14.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)