

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: P489307

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-3LO-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: P489307  
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-40-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

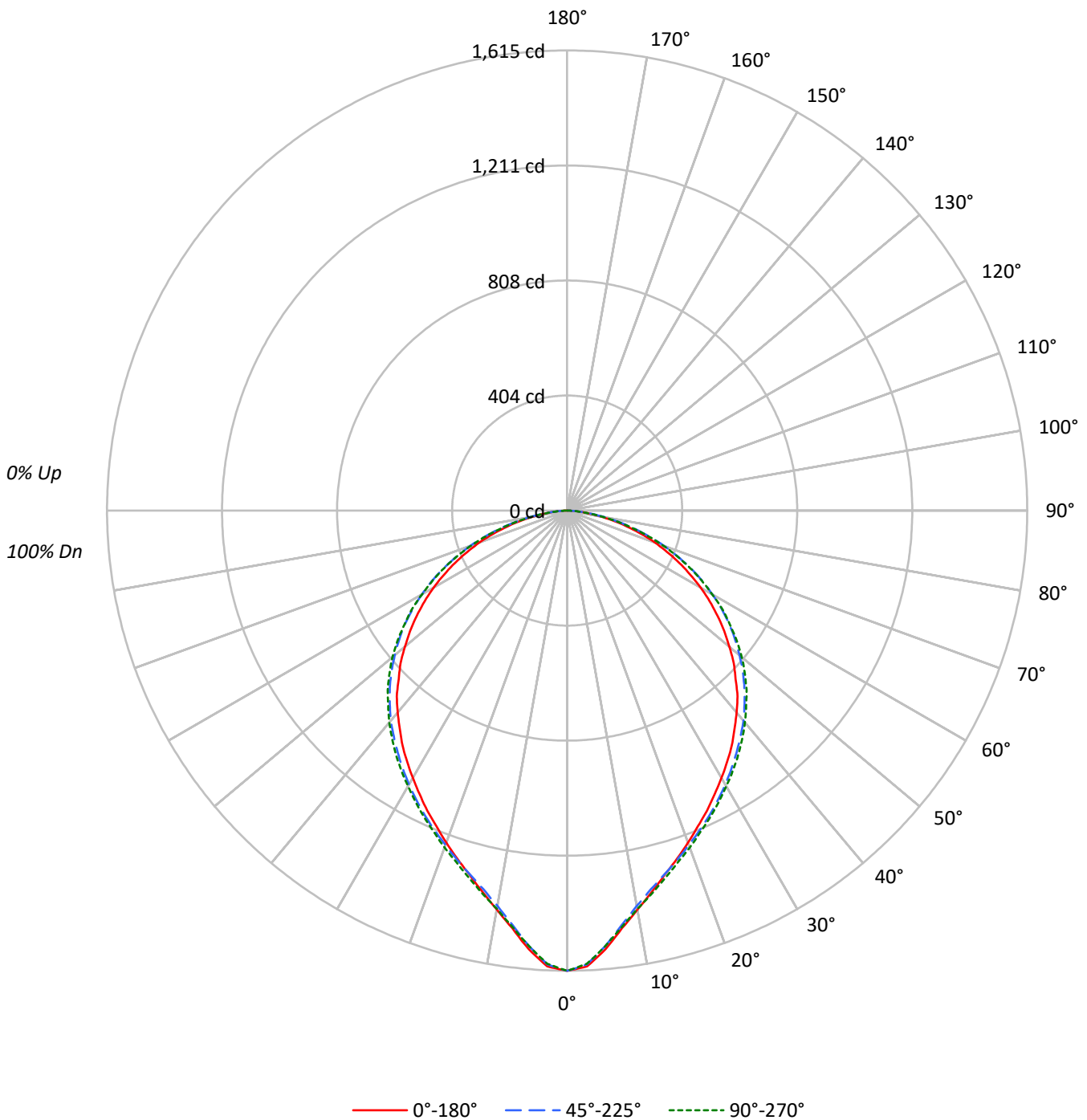
Lumens per Lamp: N/A  
Luminaire Lumens: 3752.1 lumens  
Efficiency: N/A  
Efficacy: 106.9 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 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°	4347	4347	4347
5°	4174	4144	4144
10°	3885	3849	3879
15°	3686	3679	3715
20°	3551	3576	3604
25°	3449	3505	3526
30°	3366	3449	3471
35°	3308	3405	3439
40°	3250	3382	3410
45°	3183	3349	3389
50°	3113	3307	3351
55°	3026	3259	3272
60°	2918	3169	3163
65°	2765	3048	3028
70°	2581	2842	2807
75°	2279	2518	2493
80°	1852	2052	1951
85°	1284	1309	1260



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.7	3.8
10°-20°	373.9	10.0
20°-30°	543.7	14.5
30°-40°	647.0	17.2
40°-50°	671.8	17.9
50°-60°	608.6	16.2
60°-70°	459.2	12.2
70°-80°	250.2	6.7
80°-90°	55.0	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°	1060.3	28.3
0°-40°	1707.3	45.5
0°-60°	2987.6	79.6
0°-90°	3752.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3752.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1615	1615	1615	1615	1615	
5°	1545	1542	1534	1533	1534	143
15°	1323	1320	1321	1330	1334	373
25°	1162	1171	1181	1190	1188	535
35°	1007	1019	1036	1052	1047	630
45°	836	851	880	890	890	646
55°	645	660	695	700	698	576
65°	434	447	479	478	476	429
75°	219	228	242	244	240	233
85°	42	42	42	42	41	52
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1615.3	1615.3	1615.3	1615.3	1615.3
2.5°	1601.2	1599.6	1594.3	1592.3	1591.9
5°	1545.1	1541.5	1534.2	1533.4	1534.2
7.5°	1478.1	1474.1	1466.8	1469.6	1473.3
10°	1421.6	1411.5	1408.7	1412.7	1419.6
12.5°	1371.1	1363.1	1360.6	1371.1	1376.0
15°	1323.1	1319.9	1320.7	1329.6	1333.6
17.5°	1281.5	1279.5	1284.8	1291.6	1293.7
20°	1240.0	1244.0	1248.8	1256.1	1258.5
22.5°	1199.2	1206.8	1214.9	1224.6	1221.4
25°	1161.7	1171.3	1180.6	1190.3	1187.5
27.5°	1121.7	1133.0	1145.9	1156.4	1152.4
30°	1083.3	1097.5	1110.0	1122.9	1116.9
32.5°	1045.4	1058.7	1073.7	1089.4	1082.5
35°	1007.1	1019.2	1036.5	1052.3	1047.0
37.5°	964.7	979.6	999.4	1013.1	1009.5
40°	925.1	938.9	962.7	971.6	970.7
42.5°	885.2	896.5	921.5	931.6	930.0
45°	836.3	851.3	879.9	889.6	890.4
47.5°	793.1	805.7	836.3	844.0	845.6
50°	743.5	759.2	789.9	799.2	800.4
52.5°	694.6	711.6	743.1	749.5	750.8
55°	645.0	660.3	694.6	699.5	697.5
57.5°	592.9	611.5	643.0	645.4	647.4
60°	542.1	558.2	588.9	592.1	587.7
62.5°	486.8	503.3	534.8	535.6	532.0
65°	434.3	446.8	478.7	477.9	475.5
67.5°	379.4	394.7	418.2	419.0	417.0
70°	328.1	338.6	361.2	361.7	356.8
72.5°	272.9	284.2	302.3	299.9	298.7
75°	219.2	228.1	242.2	243.8	239.8
77.5°	169.9	176.4	186.9	185.7	181.2
80°	119.5	124.7	132.4	130.8	125.9
82.5°	76.3	79.5	84.4	82.3	80.3
85°	41.6	42.0	42.4	42.0	40.8
87.5°	15.3	15.7	15.7	15.3	14.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)