

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: P489262

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-2LO-20-120-EDD-90**

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: P489262  
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-LD4-2LO-20-120-EDD-90  
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

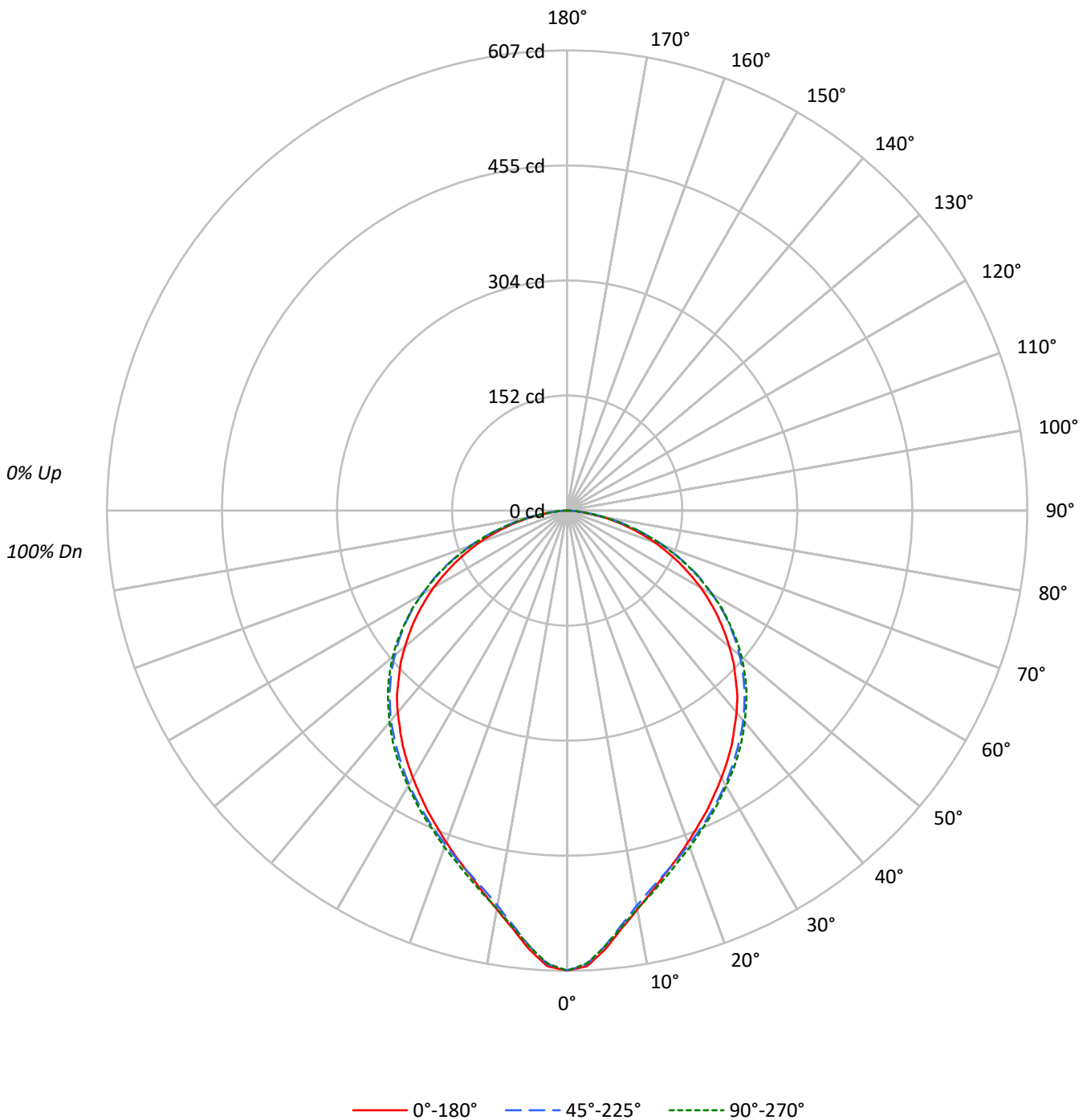
Lumens per Lamp: N/A  
Luminaire Lumens: 1409.2 lumens  
Efficiency: N/A  
Efficacy: 60.2 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 23.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	1633	1633	1633
5°	1568	1556	1556
10°	1459	1446	1457
15°	1384	1382	1395
20°	1334	1343	1354
25°	1295	1317	1324
30°	1264	1295	1304
35°	1242	1279	1292
40°	1221	1270	1281
45°	1195	1258	1273
50°	1169	1242	1258
55°	1136	1224	1229
60°	1096	1190	1188
65°	1039	1145	1137
70°	969	1068	1054
75°	856	946	936
80°	696	770	733
85°	482	491	472



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.6	3.8
10°-20°	140.4	10.0
20°-30°	204.2	14.5
30°-40°	243.0	17.2
40°-50°	252.3	17.9
50°-60°	228.6	16.2
60°-70°	172.5	12.2
70°-80°	94.0	6.7
80°-90°	20.7	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°	398.2	28.3
0°-40°	641.2	45.5
0°-60°	1122.1	79.6
0°-90°	1409.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1409.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	607	607	607	607	607	
5°	580	579	576	576	576	54
15°	497	496	496	499	501	140
25°	436	440	443	447	446	201
35°	378	383	389	395	393	236
45°	314	320	330	334	334	243
55°	242	248	261	263	262	216
65°	163	168	180	180	179	161
75°	82	86	91	92	90	88
85°	16	16	16	16	15	20
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	606.7	606.7	606.7	606.7	606.7
2.5°	601.4	600.8	598.8	598.0	597.9
5°	580.3	578.9	576.2	575.9	576.2
7.5°	555.1	553.6	550.9	552.0	553.3
10°	533.9	530.1	529.1	530.6	533.2
12.5°	515.0	511.9	511.0	515.0	516.8
15°	496.9	495.7	496.0	499.4	500.9
17.5°	481.3	480.6	482.5	485.1	485.9
20°	465.7	467.2	469.0	471.8	472.7
22.5°	450.4	453.3	456.3	459.9	458.7
25°	436.3	439.9	443.4	447.1	446.0
27.5°	421.3	425.5	430.4	434.3	432.8
30°	406.9	412.2	416.9	421.7	419.5
32.5°	392.6	397.6	403.2	409.2	406.6
35°	378.2	382.8	389.3	395.2	393.2
37.5°	362.3	367.9	375.3	380.5	379.1
40°	347.5	352.6	361.6	364.9	364.6
42.5°	332.4	336.7	346.1	349.9	349.3
45°	314.1	319.7	330.5	334.1	334.4
47.5°	297.9	302.6	314.1	317.0	317.6
50°	279.2	285.2	296.7	300.2	300.6
52.5°	260.9	267.3	279.1	281.5	282.0
55°	242.2	248.0	260.9	262.7	262.0
57.5°	222.7	229.7	241.5	242.4	243.2
60°	203.6	209.7	221.2	222.4	220.7
62.5°	182.8	189.0	200.9	201.2	199.8
65°	163.1	167.8	179.8	179.5	178.6
67.5°	142.5	148.3	157.1	157.4	156.6
70°	123.2	127.2	135.7	135.8	134.0
72.5°	102.5	106.7	113.5	112.6	112.2
75°	82.3	85.7	91.0	91.6	90.0
77.5°	63.8	66.2	70.2	69.7	68.1
80°	44.9	46.8	49.7	49.1	47.3
82.5°	28.6	29.9	31.7	30.9	30.2
85°	15.6	15.8	15.9	15.8	15.3
87.5°	5.8	5.9	5.9	5.8	5.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)