

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: P489308

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-3LO-50-120-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: P489308  
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-50-120-EDD-90  
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

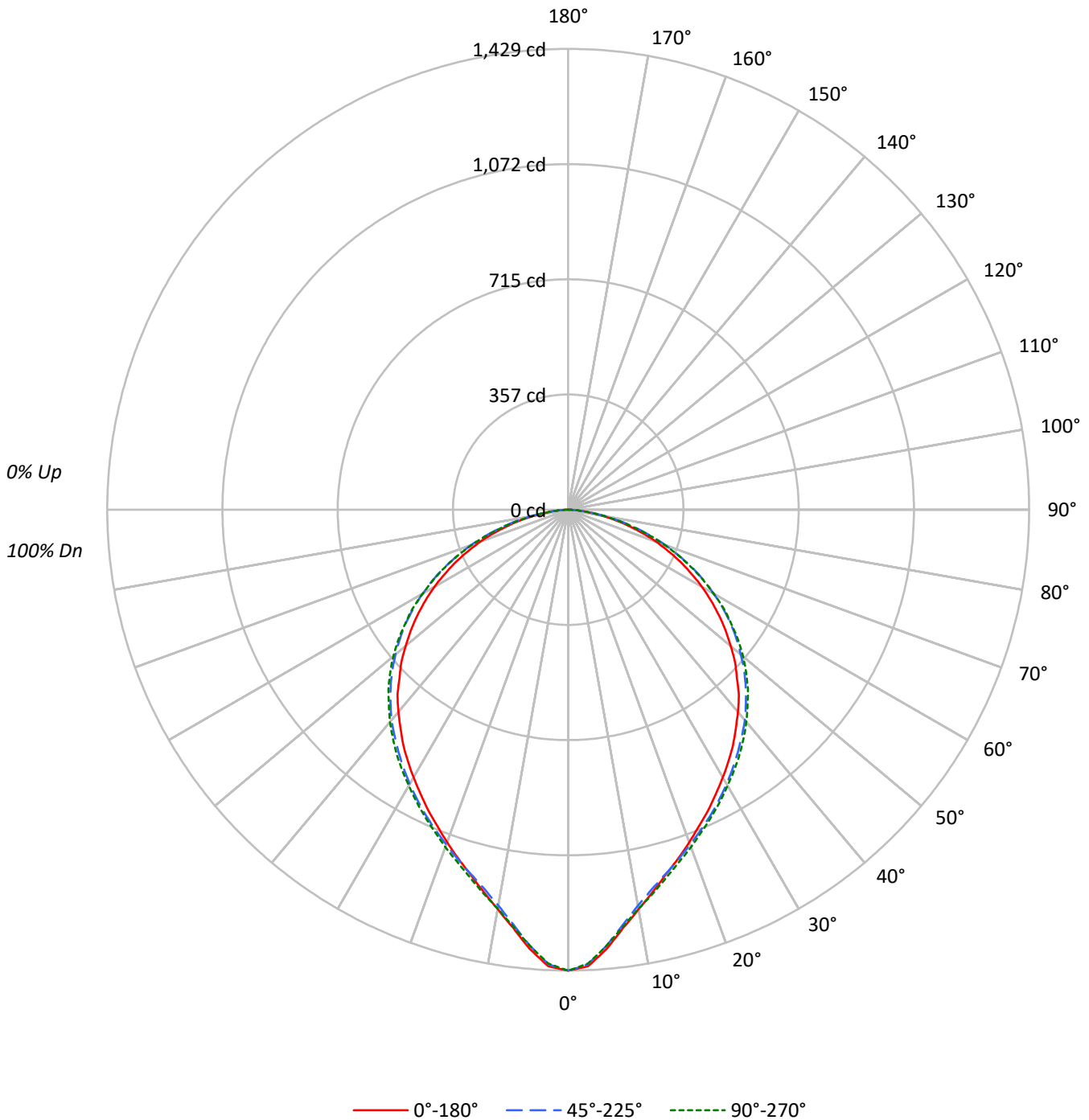
Lumens per Lamp: N/A  
Luminaire Lumens: 3319.7 lumens  
Efficiency: N/A  
Efficacy: 94.6 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

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°	3846	3846	3846
5°	3693	3667	3667
10°	3437	3406	3432
15°	3261	3255	3287
20°	3142	3164	3189
25°	3052	3102	3119
30°	2978	3052	3070
35°	2927	3013	3043
40°	2875	2992	3017
45°	2816	2963	2998
50°	2754	2926	2965
55°	2677	2883	2895
60°	2581	2804	2799
65°	2446	2697	2679
70°	2284	2515	2484
75°	2016	2228	2205
80°	1638	1815	1726
85°	1136	1158	1115



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.3	3.8
10°-20°	330.8	10.0
20°-30°	481.0	14.5
30°-40°	572.4	17.2
40°-50°	594.4	17.9
50°-60°	538.5	16.2
60°-70°	406.3	12.2
70°-80°	221.4	6.7
80°-90°	48.6	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°	938.1	28.3
0°-40°	1510.5	45.5
0°-60°	2643.3	79.6
0°-90°	3319.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3319.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1429	1429	1429	1429	1429	
5°	1367	1364	1357	1357	1357	127
15°	1171	1168	1168	1176	1180	330
25°	1028	1036	1045	1053	1051	474
35°	891	902	917	931	926	557
45°	740	753	778	787	788	572
55°	571	584	615	619	617	510
65°	384	395	424	423	421	380
75°	194	202	214	216	212	207
85°	37	37	38	37	36	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1429.2	1429.2	1429.2	1429.2	1429.2
2.5°	1416.7	1415.3	1410.6	1408.8	1408.5
5°	1367.0	1363.8	1357.4	1356.7	1357.4
7.5°	1307.8	1304.2	1297.8	1300.3	1303.5
10°	1257.8	1248.8	1246.3	1249.9	1256.0
12.5°	1213.1	1206.0	1203.8	1213.1	1217.4
15°	1170.6	1167.8	1168.5	1176.3	1179.9
17.5°	1133.9	1132.1	1136.7	1142.8	1144.6
20°	1097.1	1100.6	1104.9	1111.4	1113.5
22.5°	1061.0	1067.8	1074.9	1083.5	1080.6
25°	1027.8	1036.3	1044.6	1053.1	1050.6
27.5°	992.4	1002.4	1013.9	1023.1	1019.6
30°	958.5	971.0	982.1	993.5	988.1
32.5°	924.9	936.7	949.9	963.9	957.8
35°	891.0	901.7	917.1	931.0	926.4
37.5°	853.5	866.7	884.2	896.3	893.2
40°	818.5	830.7	851.7	859.6	858.9
42.5°	783.2	793.2	815.3	824.2	822.8
45°	740.0	753.2	778.5	787.1	787.8
47.5°	701.7	712.8	740.0	746.7	748.2
50°	657.8	671.7	698.9	707.1	708.2
52.5°	614.6	629.6	657.4	663.2	664.2
55°	570.7	584.2	614.6	618.9	617.1
57.5°	524.6	541.0	568.9	571.0	572.8
60°	479.6	493.9	521.0	523.9	520.0
62.5°	430.7	445.3	473.2	473.9	470.7
65°	384.2	395.3	423.5	422.8	420.7
67.5°	335.7	349.2	370.0	370.7	368.9
70°	290.3	299.6	319.6	320.0	315.7
72.5°	241.4	251.4	267.5	265.3	264.3
75°	193.9	201.8	214.3	215.7	212.1
77.5°	150.4	156.1	165.3	164.3	160.3
80°	105.7	110.3	117.1	115.7	111.4
82.5°	67.5	70.4	74.6	72.9	71.1
85°	36.8	37.1	37.5	37.1	36.1
87.5°	13.6	13.9	13.9	13.6	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)