

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: P489327

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-4HI-30-120-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: P489327  
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-LD4-4HI-30-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

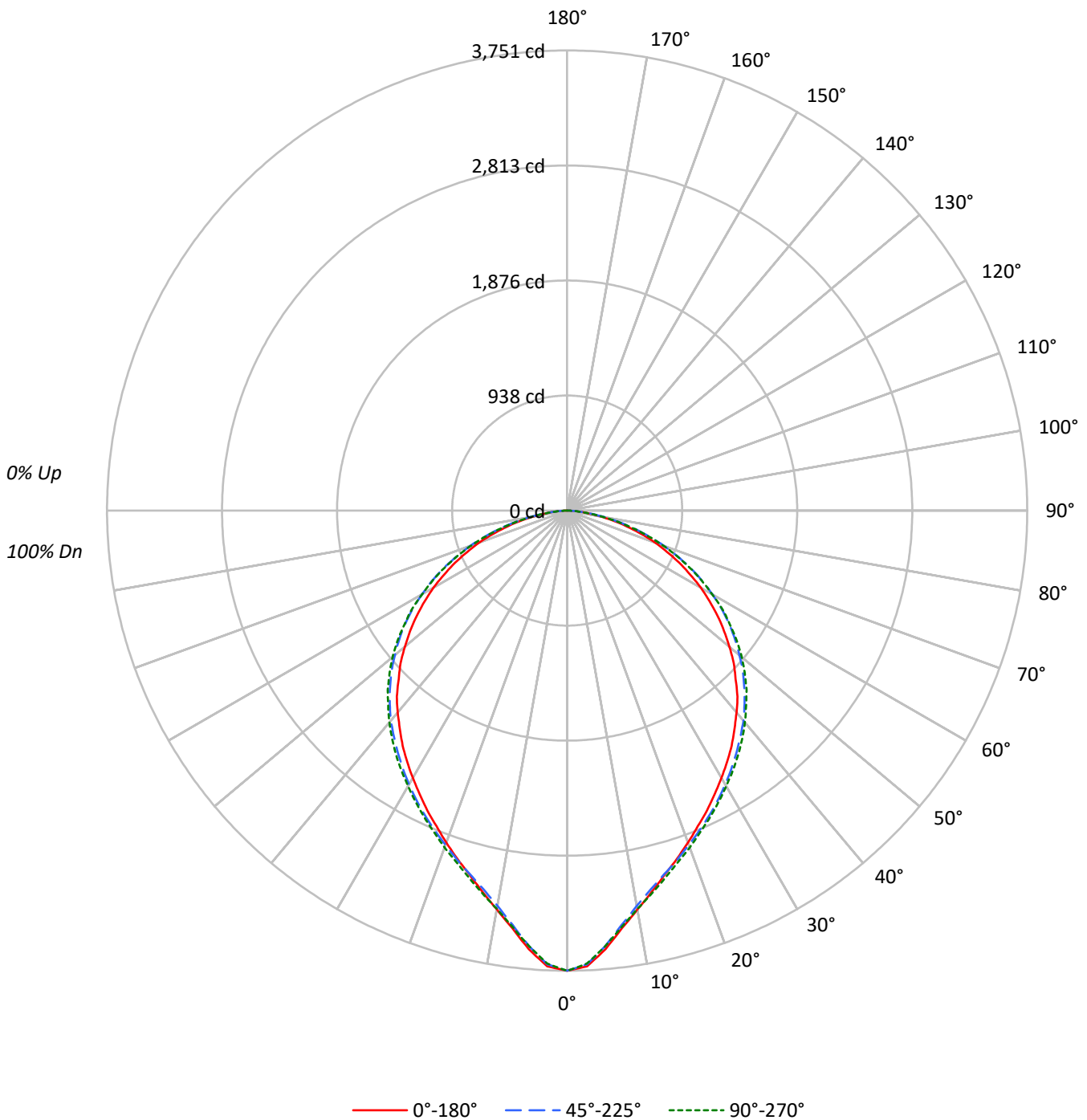
Lumens per Lamp: N/A  
Luminaire Lumens: 8712.6 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 86.4  
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	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					100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70					70			
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59					59			
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51					51			
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44					44			
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38					38			
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30					30			
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27					27			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	10094	10094	10094
5°	9692	9623	9623
10°	9020	8938	9007
15°	8559	8544	8627
20°	8245	8304	8369
25°	8009	8140	8187
30°	7817	8009	8058
35°	7682	7907	7987
40°	7546	7853	7918
45°	7391	7776	7868
50°	7227	7679	7781
55°	7027	7568	7598
60°	6774	7359	7345
65°	6422	7077	7030
70°	5995	6600	6519
75°	5291	5847	5788
80°	4299	4764	4531
85°	2983	3038	2921



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	331.4	3.8
10°-20°	868.2	10.0
20°-30°	1262.5	14.5
30°-40°	1502.3	17.2
40°-50°	1559.9	17.9
50°-60°	1413.2	16.2
60°-70°	1066.4	12.2
70°-80°	581.0	6.7
80°-90°	127.7	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°	2462.1	28.3
0°-40°	3964.4	45.5
0°-60°	6937.5	79.6
0°-90°	8712.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8712.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3751	3751	3751	3751	3751	
5°	3588	3579	3562	3561	3562	333
15°	3072	3065	3067	3087	3097	867
25°	2697	2720	2742	2764	2757	1243
35°	2338	2367	2407	2444	2431	1462
45°	1942	1977	2043	2066	2068	1501
55°	1498	1533	1613	1624	1620	1337
65°	1008	1038	1112	1110	1104	997
75°	509	530	562	566	557	542
85°	97	97	98	97	95	122
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3750.9	3750.9	3750.9	3750.9	3750.9
2.5°	3718.1	3714.3	3702.2	3697.5	3696.5
5°	3587.8	3579.4	3562.5	3560.7	3562.5
7.5°	3432.2	3422.8	3406.0	3412.6	3421.0
10°	3301.0	3277.6	3271.0	3280.4	3296.3
12.5°	3183.8	3165.1	3159.4	3183.8	3195.1
15°	3072.3	3064.8	3066.7	3087.3	3096.7
17.5°	2975.8	2971.1	2983.3	2999.2	3003.9
20°	2879.3	2888.7	2899.9	2916.8	2922.4
22.5°	2784.6	2802.4	2821.2	2843.6	2836.1
25°	2697.4	2719.9	2741.5	2764.0	2757.4
27.5°	2604.6	2630.8	2660.9	2685.3	2675.9
30°	2515.6	2548.4	2577.5	2607.4	2593.4
32.5°	2427.5	2458.4	2493.1	2529.7	2513.7
35°	2338.5	2366.6	2406.9	2443.5	2431.3
37.5°	2240.1	2274.7	2320.6	2352.5	2344.1
40°	2148.2	2180.1	2235.4	2256.0	2254.1
42.5°	2055.4	2081.7	2139.8	2163.2	2159.4
45°	1942.0	1976.7	2043.2	2065.7	2067.6
47.5°	1841.7	1870.8	1942.0	1959.8	1963.5
50°	1726.4	1763.0	1834.2	1855.7	1858.6
52.5°	1613.0	1652.3	1725.5	1740.5	1743.3
55°	1497.7	1533.3	1613.0	1624.3	1619.6
57.5°	1376.8	1419.9	1493.1	1498.7	1503.4
60°	1258.7	1296.2	1367.4	1374.9	1364.7
62.5°	1130.3	1168.7	1241.9	1243.7	1235.3
65°	1008.5	1037.5	1111.5	1109.7	1104.1
67.5°	881.0	916.6	971.0	972.8	968.2
70°	762.0	786.3	838.8	839.8	828.6
72.5°	633.6	659.8	702.0	696.4	693.6
75°	508.9	529.6	562.4	566.1	556.7
77.5°	394.6	409.6	434.0	431.2	420.8
80°	277.4	289.6	307.4	303.7	292.4
82.5°	177.1	184.7	195.9	191.2	186.5
85°	96.6	97.4	98.4	97.4	94.6
87.5°	35.6	36.6	36.6	35.6	32.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)