

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: P489795

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-2HI-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: P489795  
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-24-4-INS-P12125-LD4-2HI-30-120-EDD  
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

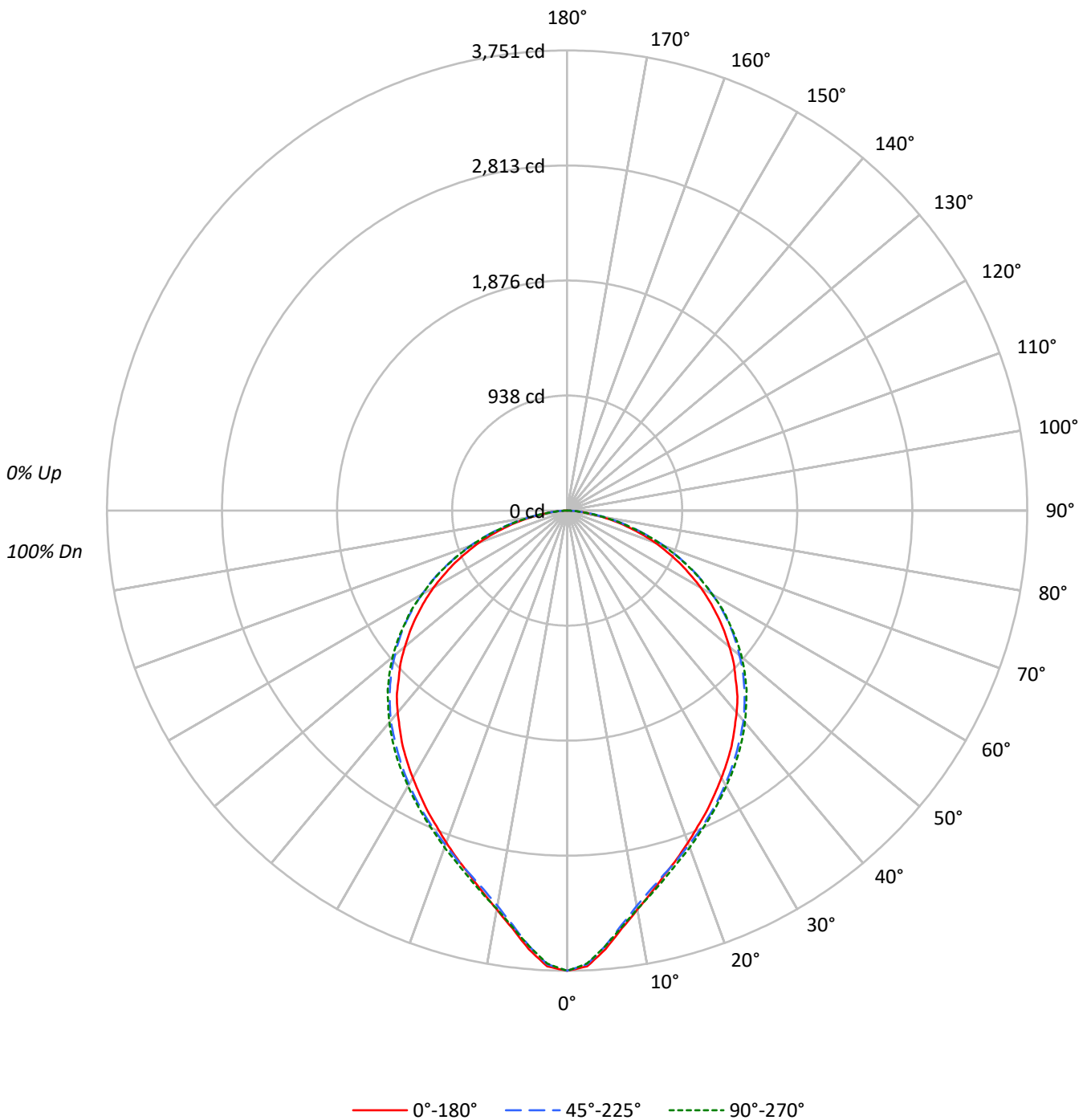
Lumens per Lamp: N/A  
Luminaire Lumens: 8713.0 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	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°	5047	5047	5047
5°	4846	4812	4812
10°	4510	4469	4504
15°	4280	4272	4314
20°	4123	4152	4185
25°	4005	4070	4094
30°	3908	4005	4029
35°	3841	3954	3994
40°	3773	3926	3959
45°	3695	3888	3934
50°	3614	3840	3891
55°	3514	3784	3799
60°	3387	3680	3672
65°	3211	3539	3515
70°	2998	3300	3260
75°	2646	2924	2895
80°	2149	2383	2266
85°	1491	1519	1462



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	331.5	3.8
10°-20°	868.2	10.0
20°-30°	1262.5	14.5
30°-40°	1502.4	17.2
40°-50°	1560.0	17.9
50°-60°	1413.3	16.2
60°-70°	1066.4	12.2
70°-80°	581.1	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°	2462.2	28.3
0°-40°	3964.6	45.5
0°-60°	6937.8	79.6
0°-90°	8713.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8713.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3751	3751	3751	3751	3751	
5°	3588	3580	3563	3561	3563	333
15°	3072	3065	3067	3088	3097	867
25°	2698	2720	2742	2764	2758	1243
35°	2339	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°	3751.1	3751.1	3751.1	3751.1	3751.1
2.5°	3718.3	3714.5	3702.3	3697.6	3696.7
5°	3588.0	3579.5	3562.7	3560.8	3562.7
7.5°	3432.4	3423.0	3406.2	3412.7	3421.2
10°	3301.2	3277.7	3271.1	3280.5	3296.5
12.5°	3184.0	3165.2	3159.6	3184.0	3195.3
15°	3072.4	3064.9	3066.9	3087.5	3096.8
17.5°	2975.9	2971.2	2983.4	2999.4	3004.1
20°	2879.4	2888.8	2900.0	2916.9	2922.5
22.5°	2784.7	2802.5	2821.3	2843.8	2836.3
25°	2697.6	2720.0	2741.6	2764.1	2757.6
27.5°	2604.7	2631.0	2661.0	2685.4	2676.0
30°	2515.7	2548.5	2577.6	2607.5	2593.5
32.5°	2427.6	2458.5	2493.2	2529.8	2513.8
35°	2338.6	2366.7	2407.0	2443.6	2431.4
37.5°	2240.2	2274.8	2320.7	2352.6	2344.2
40°	2148.3	2180.2	2235.5	2256.1	2254.2
42.5°	2055.5	2081.8	2139.9	2163.3	2159.5
45°	1942.1	1976.8	2043.3	2065.8	2067.7
47.5°	1841.8	1870.9	1942.1	1959.9	1963.6
50°	1726.5	1763.1	1834.3	1855.8	1858.7
52.5°	1613.1	1652.4	1725.6	1740.5	1743.4
55°	1497.8	1533.4	1613.1	1624.4	1619.7
57.5°	1376.9	1420.0	1493.2	1498.7	1503.4
60°	1258.8	1296.3	1367.5	1375.0	1364.7
62.5°	1130.4	1168.8	1241.9	1243.8	1235.3
65°	1008.5	1037.6	1111.6	1109.8	1104.1
67.5°	881.0	916.6	971.1	972.9	968.3
70°	762.0	786.4	838.9	839.8	828.6
72.5°	633.6	659.9	702.0	696.4	693.6
75°	509.0	529.6	562.4	566.2	556.8
77.5°	394.6	409.6	434.0	431.2	420.8
80°	277.4	289.6	307.5	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	94.7
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)