

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: P489894

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-4STD-40-120-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: P489894  
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-LD4-4STD-40-120-EDD-90  
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

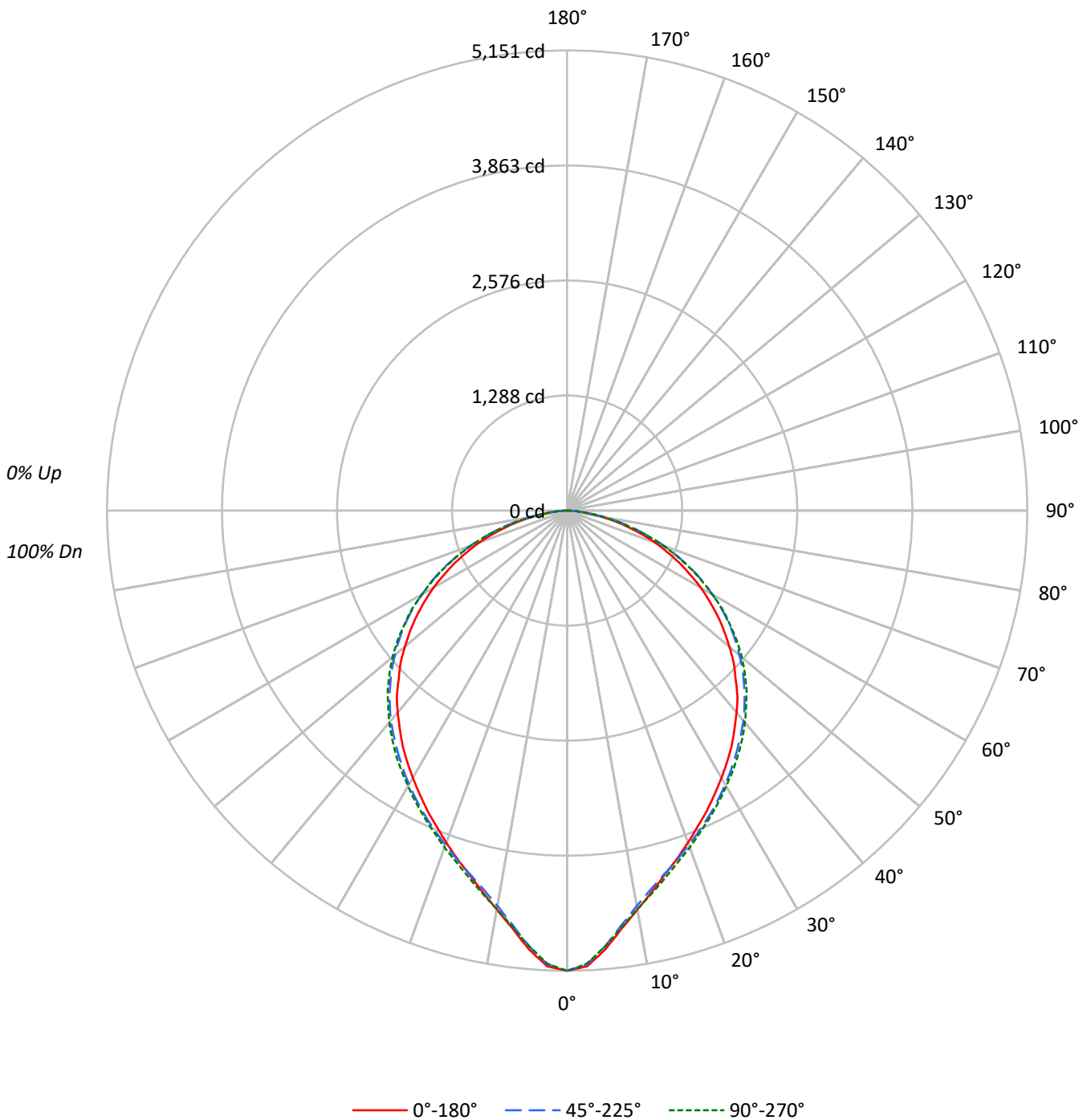
Lumens per Lamp: N/A  
Luminaire Lumens: 11964.4 lumens  
Efficiency: N/A  
Efficacy: 89.8 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 133.2  
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°	6930	6930	6930
5°	6654	6607	6607
10°	6193	6137	6184
15°	5877	5866	5923
20°	5661	5702	5746
25°	5499	5589	5622
30°	5367	5499	5533
35°	5275	5429	5484
40°	5181	5392	5437
45°	5074	5339	5403
50°	4963	5272	5342
55°	4825	5196	5217
60°	4651	5053	5043
65°	4409	4860	4827
70°	4116	4532	4476
75°	3633	4015	3974
80°	2951	3271	3111
85°	2047	2086	2007



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	455.1	3.8
10°-20°	1192.2	10.0
20°-30°	1733.7	14.5
30°-40°	2063.0	17.2
40°-50°	2142.1	17.9
50°-60°	1940.6	16.2
60°-70°	1464.4	12.2
70°-80°	797.9	6.7
80°-90°	175.3	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°	3381.0	28.3
0°-40°	5444.0	45.5
0°-60°	9526.8	79.6
0°-90°	11964.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11964.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5151	5151	5151	5151	5151	
5°	4927	4915	4892	4890	4892	457
15°	4219	4209	4211	4240	4252	1191
25°	3704	3735	3765	3796	3787	1707
35°	3211	3250	3305	3355	3339	2008
45°	2667	2714	2806	2837	2839	2061
55°	2057	2106	2215	2230	2224	1836
65°	1385	1425	1526	1524	1516	1369
75°	699	727	772	777	764	744
85°	133	134	135	134	130	167
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5150.9	5150.9	5150.9	5150.9	5150.9
2.5°	5105.8	5100.6	5083.9	5077.5	5076.1
5°	4926.9	4915.3	4892.1	4889.6	4892.1
7.5°	4713.2	4700.3	4677.3	4686.2	4697.8
10°	4533.1	4500.9	4491.8	4504.7	4526.6
12.5°	4372.1	4346.4	4338.6	4372.1	4387.7
15°	4219.0	4208.7	4211.3	4239.6	4252.4
17.5°	4086.5	4080.0	4096.8	4118.6	4125.1
20°	3953.9	3966.8	3982.2	4005.4	4013.1
22.5°	3823.9	3848.3	3874.1	3905.0	3894.7
25°	3704.2	3735.1	3764.7	3795.6	3786.6
27.5°	3576.8	3612.7	3654.0	3687.5	3674.6
30°	3454.4	3499.5	3539.4	3580.6	3561.3
32.5°	3333.5	3376.0	3423.6	3473.8	3451.9
35°	3211.2	3249.9	3305.2	3355.4	3338.7
37.5°	3076.1	3123.7	3186.7	3230.5	3219.0
40°	2950.0	2993.7	3069.7	3098.0	3095.4
42.5°	2822.5	2858.6	2938.4	2970.5	2965.4
45°	2666.8	2714.4	2805.8	2836.7	2839.3
47.5°	2529.1	2569.0	2666.8	2691.2	2696.4
50°	2370.8	2421.0	2518.8	2548.4	2552.3
52.5°	2215.0	2269.0	2369.5	2390.0	2394.0
55°	2056.7	2105.6	2215.0	2230.5	2224.1
57.5°	1890.7	1949.9	2050.3	2058.0	2064.5
60°	1728.5	1780.0	1877.8	1888.1	1874.0
62.5°	1552.2	1605.0	1705.4	1707.9	1696.3
65°	1384.8	1424.8	1526.4	1523.9	1516.1
67.5°	1209.8	1258.7	1333.4	1335.9	1329.6
70°	1046.3	1079.8	1151.9	1153.2	1137.8
72.5°	870.1	906.1	964.0	956.3	952.5
75°	698.9	727.2	772.3	777.4	764.5
77.5°	541.9	562.4	595.9	592.1	577.9
80°	380.9	397.7	422.2	417.0	401.5
82.5°	243.2	253.6	269.0	262.6	256.1
85°	132.6	133.8	135.1	133.8	130.0
87.5°	48.9	50.2	50.2	48.9	45.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)