

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: P489926

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-5STD-30-120-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: P489926  
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-LD4-5STD-30-120-EDD-90  
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

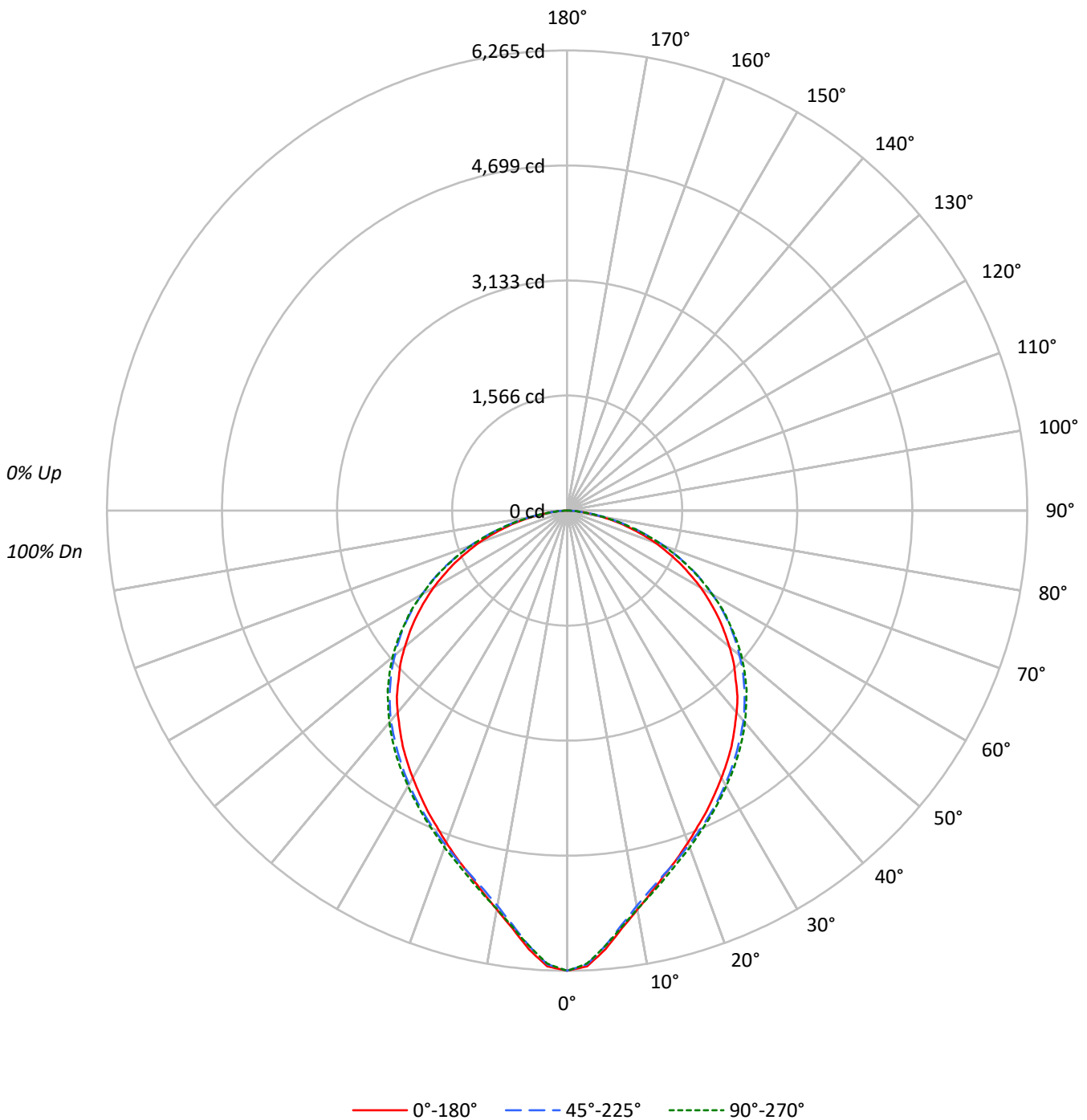
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14551.7 lumens  
Efficiency: N/A  
Efficacy: 87.4 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): 166.5  
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°	8429	8429	8429
5°	8094	8036	8036
10°	7533	7464	7522
15°	7148	7135	7204
20°	6886	6935	6989
25°	6688	6798	6837
30°	6528	6688	6730
35°	6415	6603	6670
40°	6302	6558	6613
45°	6172	6493	6571
50°	6036	6413	6498
55°	5868	6320	6345
60°	5657	6146	6133
65°	5362	5911	5871
70°	5006	5511	5444
75°	4419	4883	4834
80°	3590	3979	3784
85°	2490	2536	2441



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	553.6	3.8
10°-20°	1450.0	10.0
20°-30°	2108.6	14.5
30°-40°	2509.1	17.2
40°-50°	2605.4	17.9
50°-60°	2360.3	16.2
60°-70°	1781.1	12.2
70°-80°	970.4	6.7
80°-90°	213.2	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°	4112.1	28.3
0°-40°	6621.3	45.5
0°-60°	11586.9	79.6
0°-90°	14551.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14551.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6265	6265	6265	6265	6265	
5°	5992	5978	5950	5947	5950	556
15°	5131	5119	5122	5156	5172	1448
25°	4505	4543	4579	4616	4605	2076
35°	3906	3953	4020	4081	4061	2442
45°	3244	3301	3412	3450	3453	2507
55°	2502	2561	2694	2713	2705	2233
65°	1684	1733	1856	1853	1844	1665
75°	850	884	939	946	930	905
85°	161	163	164	163	158	203
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6264.7	6264.7	6264.7	6264.7	6264.7
2.5°	6209.9	6203.7	6183.3	6175.5	6173.9
5°	5992.4	5978.3	5950.0	5947.0	5950.0
7.5°	5732.5	5716.8	5688.7	5699.6	5713.7
10°	5513.3	5474.2	5463.2	5478.9	5505.5
12.5°	5317.6	5286.3	5276.9	5317.6	5336.5
15°	5131.3	5118.8	5122.0	5156.5	5172.0
17.5°	4970.2	4962.3	4982.7	5009.3	5017.1
20°	4808.9	4824.6	4843.4	4871.6	4880.9
22.5°	4650.8	4680.5	4711.9	4749.4	4736.9
25°	4505.2	4542.8	4578.8	4616.4	4605.4
27.5°	4350.2	4394.0	4444.2	4484.9	4469.2
30°	4201.5	4256.3	4304.9	4354.9	4331.5
32.5°	4054.4	4106.1	4163.9	4225.0	4198.4
35°	3905.7	3952.6	4020.0	4081.0	4060.7
37.5°	3741.3	3799.2	3875.9	3929.1	3915.1
40°	3587.9	3641.1	3733.5	3767.9	3764.8
42.5°	3432.9	3476.8	3573.8	3612.9	3606.7
45°	3243.5	3301.4	3412.5	3450.2	3453.3
47.5°	3076.0	3124.6	3243.5	3273.2	3279.5
50°	2883.5	2944.6	3063.5	3099.4	3104.2
52.5°	2694.0	2759.7	2881.9	2906.9	2911.7
55°	2501.5	2560.9	2694.0	2712.9	2705.0
57.5°	2299.6	2371.6	2493.7	2503.0	2510.9
60°	2102.3	2164.9	2283.9	2296.4	2279.2
62.5°	1887.9	1952.0	2074.2	2077.2	2063.1
65°	1684.3	1732.9	1856.5	1853.4	1844.0
67.5°	1471.4	1530.9	1621.8	1624.8	1617.1
70°	1272.6	1313.3	1401.0	1402.6	1383.9
72.5°	1058.2	1102.0	1172.4	1163.1	1158.4
75°	850.0	884.5	939.3	945.5	929.8
77.5°	659.1	684.1	724.8	720.1	702.8
80°	463.3	483.7	513.5	507.2	488.3
82.5°	295.8	308.4	327.2	319.4	311.5
85°	161.3	162.7	164.3	162.7	158.1
87.5°	59.5	61.1	61.1	59.5	54.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)