

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: P489895

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-4STD-40-120-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: P489895  
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  
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

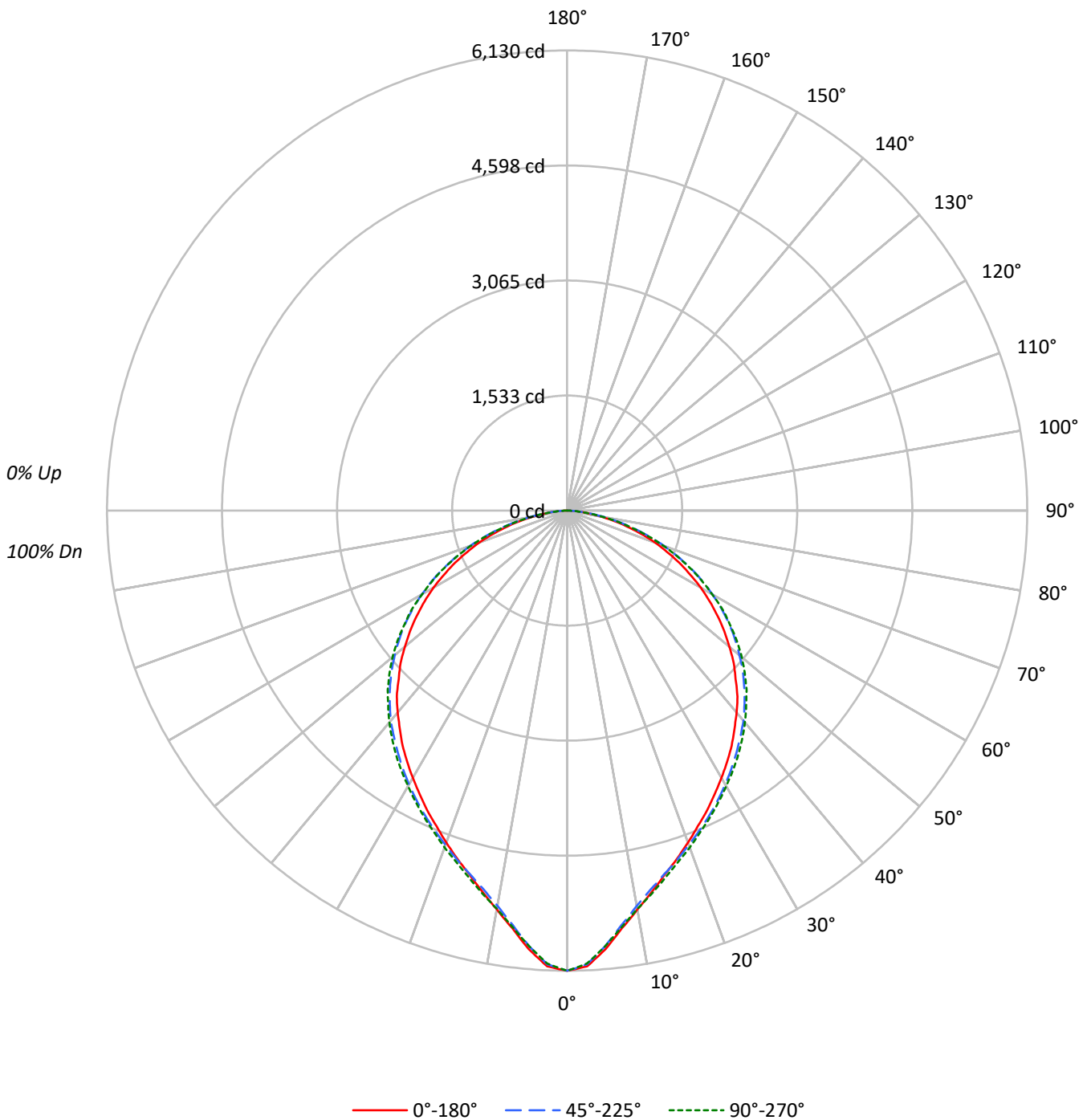
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14239.4 lumens  
Efficiency: N/A  
Efficacy: 106.9 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°	8248	8248	8248
5°	7920	7864	7864
10°	7371	7304	7360
15°	6994	6982	7050
20°	6738	6786	6839
25°	6545	6652	6690
30°	6387	6545	6585
35°	6277	6461	6527
40°	6167	6417	6471
45°	6039	6354	6430
50°	5906	6275	6358
55°	5742	6184	6209
60°	5536	6014	6002
65°	5247	5784	5745
70°	4899	5393	5327
75°	4324	4778	4730
80°	3513	3894	3703
85°	2436	2482	2388



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	541.7	3.8
10°-20°	1418.9	10.0
20°-30°	2063.3	14.5
30°-40°	2455.3	17.2
40°-50°	2549.4	17.9
50°-60°	2309.7	16.2
60°-70°	1742.9	12.2
70°-80°	949.6	6.7
80°-90°	208.7	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°	4023.9	28.3
0°-40°	6479.2	45.5
0°-60°	11338.3	79.6
0°-90°	14239.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14239.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6130	6130	6130	6130	6130	
5°	5864	5850	5822	5819	5822	544
15°	5021	5009	5012	5046	5061	1417
25°	4409	4445	4481	4517	4507	2031
35°	3822	3868	3934	3994	3974	2389
45°	3174	3231	3339	3376	3379	2453
55°	2448	2506	2636	2655	2647	2186
65°	1648	1696	1817	1814	1804	1629
75°	832	866	919	925	910	886
85°	158	159	161	159	155	199
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6130.3	6130.3	6130.3	6130.3	6130.3
2.5°	6076.6	6070.5	6050.6	6042.9	6041.4
5°	5863.8	5850.0	5822.3	5819.4	5822.3
7.5°	5609.5	5594.1	5566.6	5577.3	5591.1
10°	5395.0	5356.7	5345.9	5361.3	5387.3
12.5°	5203.5	5172.9	5163.6	5203.5	5222.0
15°	5021.2	5008.9	5012.1	5045.8	5061.0
17.5°	4863.5	4855.8	4875.7	4901.8	4909.5
20°	4705.7	4721.1	4739.4	4767.0	4776.1
22.5°	4551.0	4580.0	4610.8	4647.5	4635.2
25°	4408.6	4445.3	4480.6	4517.3	4506.6
27.5°	4256.9	4299.7	4348.8	4388.6	4373.3
30°	4111.3	4164.9	4212.5	4261.4	4238.5
32.5°	3967.4	4017.9	4074.6	4134.3	4108.3
35°	3821.8	3867.8	3933.7	3993.5	3973.5
37.5°	3661.0	3717.7	3792.7	3844.8	3831.1
40°	3510.9	3563.0	3653.4	3687.1	3684.0
42.5°	3359.2	3402.2	3497.1	3535.4	3529.3
45°	3173.9	3230.6	3339.3	3376.1	3379.1
47.5°	3010.0	3057.5	3173.9	3203.0	3209.1
50°	2821.6	2881.4	2997.8	3032.9	3037.6
52.5°	2636.2	2700.5	2820.0	2844.5	2849.2
55°	2447.8	2506.0	2636.2	2654.7	2647.0
57.5°	2250.2	2320.7	2440.2	2449.3	2457.0
60°	2057.1	2118.5	2234.9	2247.1	2230.3
62.5°	1847.4	1910.1	2029.7	2032.7	2018.9
65°	1648.2	1695.7	1816.7	1813.7	1804.4
67.5°	1439.8	1498.0	1587.0	1590.0	1582.4
70°	1245.3	1285.1	1371.0	1372.5	1354.2
72.5°	1035.5	1078.4	1147.3	1138.1	1133.6
75°	831.8	865.5	919.1	925.3	909.9
77.5°	644.9	669.4	709.2	704.7	687.8
80°	453.4	473.3	502.5	496.4	477.9
82.5°	289.5	301.8	320.2	312.5	304.8
85°	157.8	159.2	160.8	159.2	154.7
87.5°	58.2	59.8	59.8	58.2	53.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)