

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: P489906

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-5HI-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: P489906  
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-LD4-5HI-40-120-EDD-90  
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

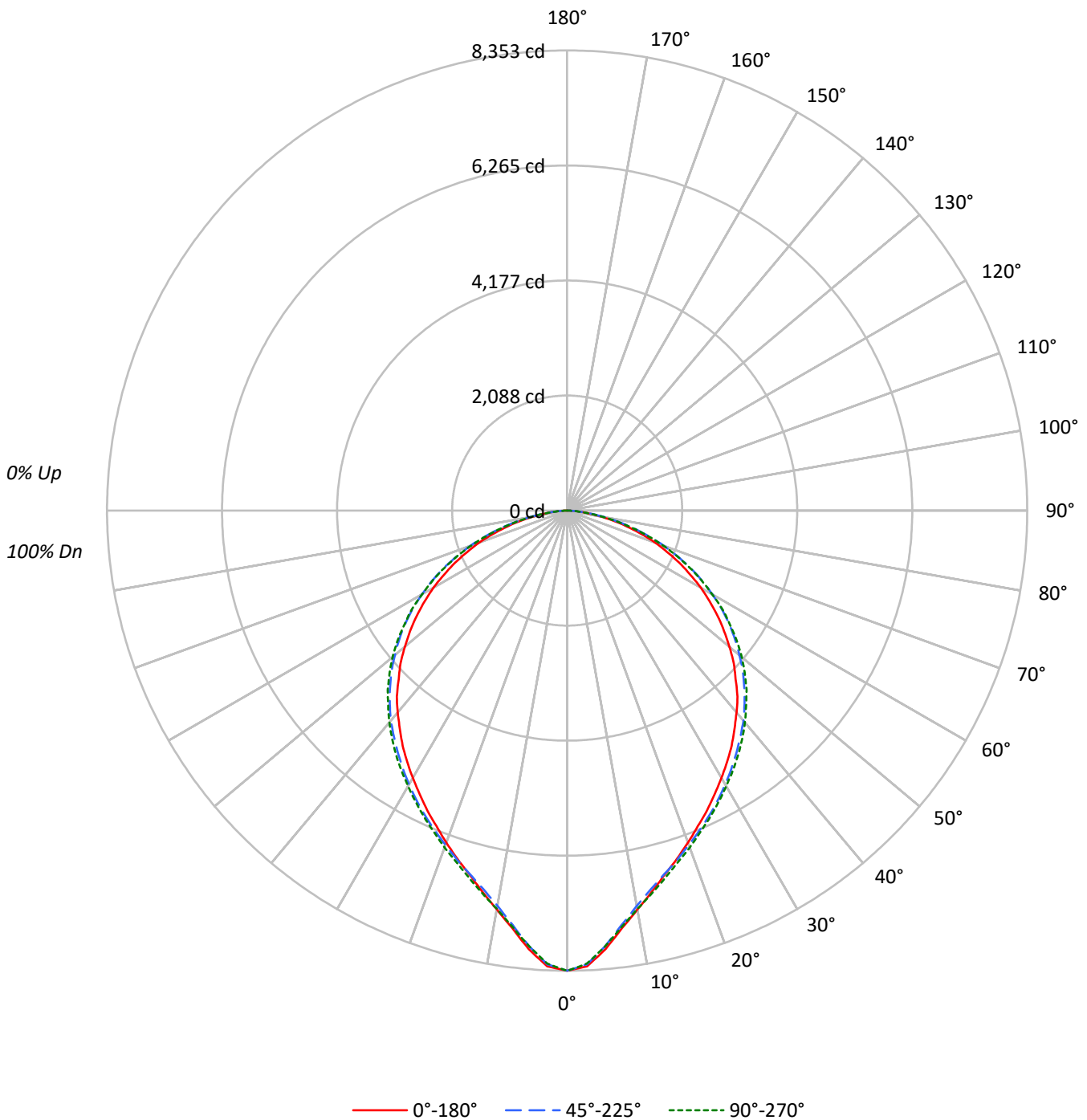
Lumens per Lamp: N/A  
Luminaire Lumens: 19401.7 lumens  
Efficiency: N/A  
Efficacy: 89.8 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 216  
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°	11238	11238	11238
5°	10791	10715	10715
10°	10043	9952	10029
15°	9530	9513	9606
20°	9181	9246	9318
25°	8918	9063	9116
30°	8703	8917	8972
35°	8553	8804	8893
40°	8402	8743	8816
45°	8229	8658	8761
50°	8047	8550	8663
55°	7824	8426	8460
60°	7543	8194	8178
65°	7150	7881	7827
70°	6675	7349	7259
75°	5892	6511	6445
80°	4786	5305	5045
85°	3319	3382	3254



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	738.1	3.8
10°-20°	1933.3	10.0
20°-30°	2811.3	14.5
30°-40°	3345.4	17.2
40°-50°	3473.7	17.9
50°-60°	3147.0	16.2
60°-70°	2374.7	12.2
70°-80°	1293.9	6.7
80°-90°	284.3	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°	5482.7	28.3
0°-40°	8828.1	45.5
0°-60°	15448.8	79.6
0°-90°	19401.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19401.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8353	8353	8353	8353	8353	
5°	7990	7971	7933	7929	7933	741
15°	6842	6825	6829	6875	6896	1931
25°	6007	6057	6105	6155	6140	2768
35°	5207	5270	5360	5441	5414	3256
45°	4325	4402	4550	4600	4604	3343
55°	3335	3414	3592	3617	3607	2978
65°	2246	2310	2475	2471	2459	2220
75°	1133	1179	1252	1261	1240	1207
85°	215	217	219	217	211	271
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8352.7	8352.7	8352.7	8352.7	8352.7
2.5°	8279.6	8271.3	8244.2	8233.7	8231.6
5°	7989.6	7970.8	7933.2	7929.1	7933.2
7.5°	7643.1	7622.2	7584.7	7599.3	7618.1
10°	7350.9	7298.7	7284.0	7304.9	7340.4
12.5°	7089.9	7048.2	7035.6	7089.9	7115.1
15°	6841.5	6824.9	6829.1	6875.1	6895.8
17.5°	6626.7	6616.2	6643.4	6678.9	6689.3
20°	6411.7	6432.6	6457.6	6495.2	6507.7
22.5°	6200.9	6240.5	6282.3	6332.4	6315.7
25°	6006.8	6056.9	6104.9	6155.0	6140.4
27.5°	5800.1	5858.5	5925.4	5979.7	5958.7
30°	5601.8	5674.9	5739.6	5806.3	5775.1
32.5°	5405.7	5474.6	5551.8	5633.2	5597.7
35°	5207.4	5270.0	5359.8	5441.2	5414.1
37.5°	4988.3	5065.5	5167.7	5238.6	5220.0
40°	4783.7	4854.7	4977.8	5023.8	5019.5
42.5°	4577.1	4635.6	4764.9	4817.1	4808.8
45°	4324.6	4401.8	4549.9	4600.1	4604.2
47.5°	4101.2	4166.0	4324.6	4364.2	4372.5
50°	3844.5	3926.0	4084.6	4132.5	4138.8
52.5°	3591.9	3679.5	3842.4	3875.7	3882.1
55°	3335.2	3414.5	3591.9	3617.1	3606.6
57.5°	3066.0	3162.0	3324.9	3337.3	3347.8
60°	2802.9	2886.5	3045.1	3061.8	3038.9
62.5°	2517.1	2602.6	2765.5	2769.6	2750.8
65°	2245.7	2310.4	2475.3	2471.2	2458.6
67.5°	1961.8	2041.1	2162.3	2166.4	2156.1
70°	1696.8	1751.1	1868.0	1870.1	1845.1
72.5°	1411.0	1469.3	1563.2	1550.8	1544.5
75°	1133.3	1179.3	1252.4	1260.7	1239.8
77.5°	878.7	912.1	966.4	960.2	937.1
80°	617.7	644.9	684.6	676.3	651.1
82.5°	394.4	411.2	436.3	425.8	415.3
85°	215.0	217.0	219.1	217.0	210.8
87.5°	79.3	81.4	81.4	79.3	73.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)