

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: P489856

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-3STD-35-120-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: P489856  
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-LD4-3STD-35-120-EDD-90  
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

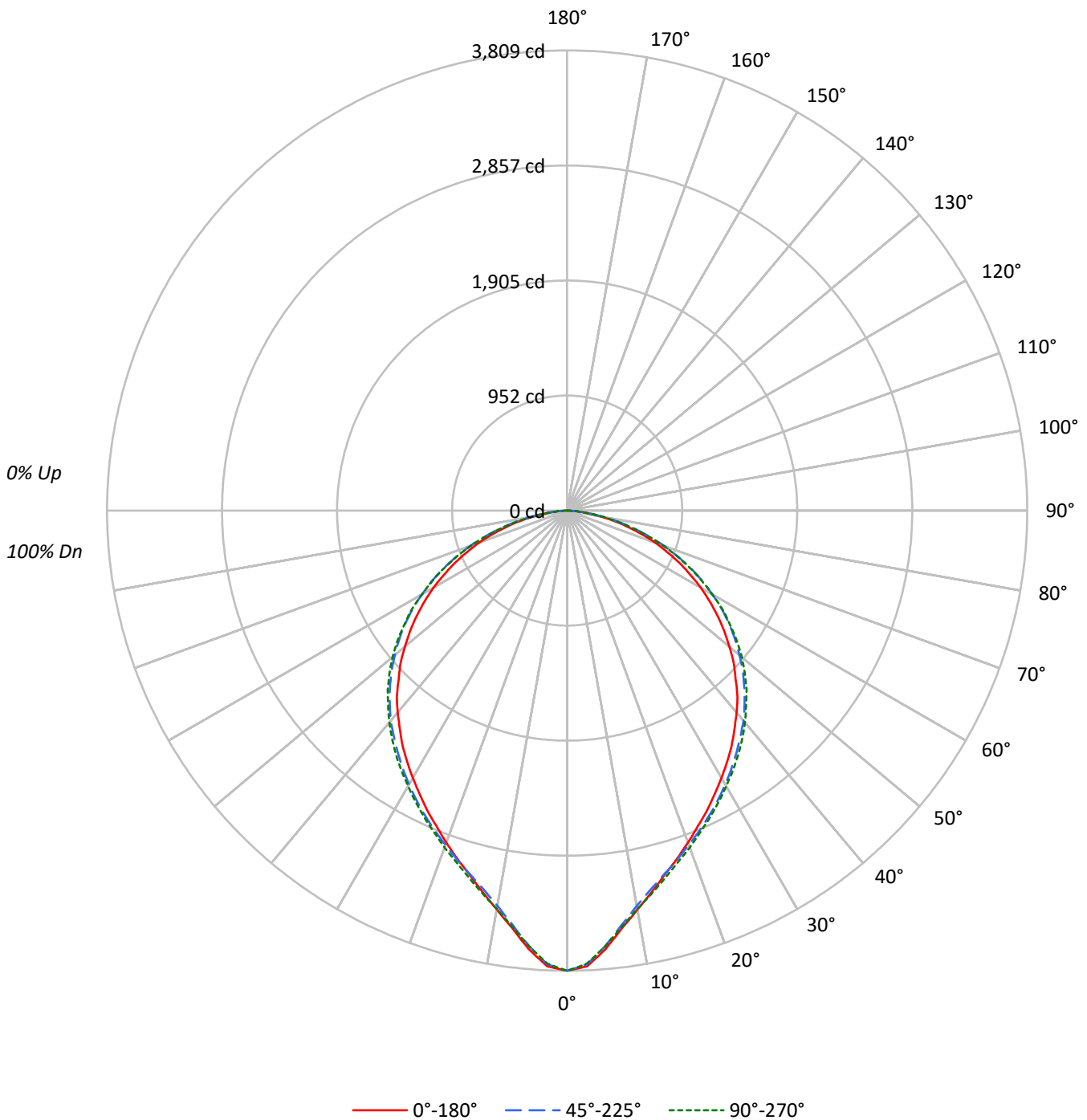
Lumens per Lamp: N/A  
Luminaire Lumens: 8847.6 lumens  
Efficiency: N/A  
Efficacy: 88.6 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 99.9  
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°	5125	5125	5125
5°	4921	4886	4886
10°	4580	4538	4573
15°	4346	4338	4380
20°	4187	4216	4249
25°	4067	4133	4157
30°	3969	4066	4092
35°	3901	4015	4055
40°	3832	3987	4020
45°	3753	3948	3995
50°	3670	3899	3951
55°	3568	3842	3858
60°	3440	3737	3729
65°	3260	3594	3570
70°	3044	3351	3310
75°	2687	2969	2939
80°	2183	2419	2300
85°	1514	1542	1484



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	336.6	3.8
10°-20°	881.6	10.0
20°-30°	1282.0	14.5
30°-40°	1525.6	17.2
40°-50°	1584.1	17.9
50°-60°	1435.1	16.2
60°-70°	1082.9	12.2
70°-80°	590.0	6.7
80°-90°	129.6	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°	2500.2	28.3
0°-40°	4025.8	45.5
0°-60°	7045.0	79.6
0°-90°	8847.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8847.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3809	3809	3809	3809	3809	
5°	3643	3635	3618	3616	3618	338
15°	3120	3112	3114	3135	3145	881
25°	2739	2762	2784	2807	2800	1262
35°	2375	2403	2444	2481	2469	1485
45°	1972	2007	2075	2098	2100	1524
55°	1521	1557	1638	1650	1645	1358
65°	1024	1054	1129	1127	1121	1012
75°	517	538	571	575	565	551
85°	98	99	100	99	96	124
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3809.0	3809.0	3809.0	3809.0	3809.0
2.5°	3775.7	3771.9	3759.5	3754.7	3753.8
5°	3643.4	3634.8	3617.7	3615.8	3617.7
7.5°	3485.4	3475.9	3458.8	3465.4	3474.0
10°	3352.2	3328.4	3321.7	3331.2	3347.4
12.5°	3233.2	3214.1	3208.4	3233.2	3244.6
15°	3119.9	3112.3	3114.2	3135.2	3144.7
17.5°	3021.9	3017.1	3029.5	3045.7	3050.5
20°	2923.9	2933.4	2944.8	2962.0	2967.6
22.5°	2827.8	2845.8	2864.9	2887.7	2880.1
25°	2739.2	2762.1	2784.0	2806.8	2800.2
27.5°	2645.0	2671.6	2702.1	2726.9	2717.3
30°	2554.5	2587.9	2617.4	2647.8	2633.6
32.5°	2465.1	2496.5	2531.7	2568.9	2552.7
35°	2374.7	2403.2	2444.2	2481.3	2468.9
37.5°	2274.8	2310.0	2356.6	2388.9	2380.4
40°	2181.5	2213.9	2270.0	2291.0	2289.0
42.5°	2087.2	2113.9	2172.9	2196.7	2192.9
45°	1972.1	2007.3	2074.9	2097.8	2099.6
47.5°	1870.3	1899.8	1972.1	1990.2	1994.0
50°	1753.2	1790.3	1862.6	1884.5	1887.4
52.5°	1638.0	1677.9	1752.2	1767.4	1770.3
55°	1520.9	1557.1	1638.0	1649.5	1644.7
57.5°	1398.2	1441.9	1516.2	1521.9	1526.7
60°	1278.2	1316.3	1388.6	1396.2	1385.8
62.5°	1147.9	1186.9	1261.1	1263.0	1254.4
65°	1024.1	1053.6	1128.8	1126.9	1121.2
67.5°	894.6	930.8	986.1	987.9	983.2
70°	773.8	798.5	851.8	852.8	841.4
72.5°	643.4	670.0	712.8	707.2	704.3
75°	516.8	537.8	571.1	574.9	565.4
77.5°	400.7	415.9	440.7	437.9	427.3
80°	281.7	294.1	312.2	308.4	296.9
82.5°	179.8	187.5	198.9	194.2	189.4
85°	98.1	98.9	99.9	98.9	96.1
87.5°	36.2	37.1	37.1	36.2	33.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)