

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: P489432

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-2HI-27-120-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: P489432
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-115-8)
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-A12125-LD4-2HI-27-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

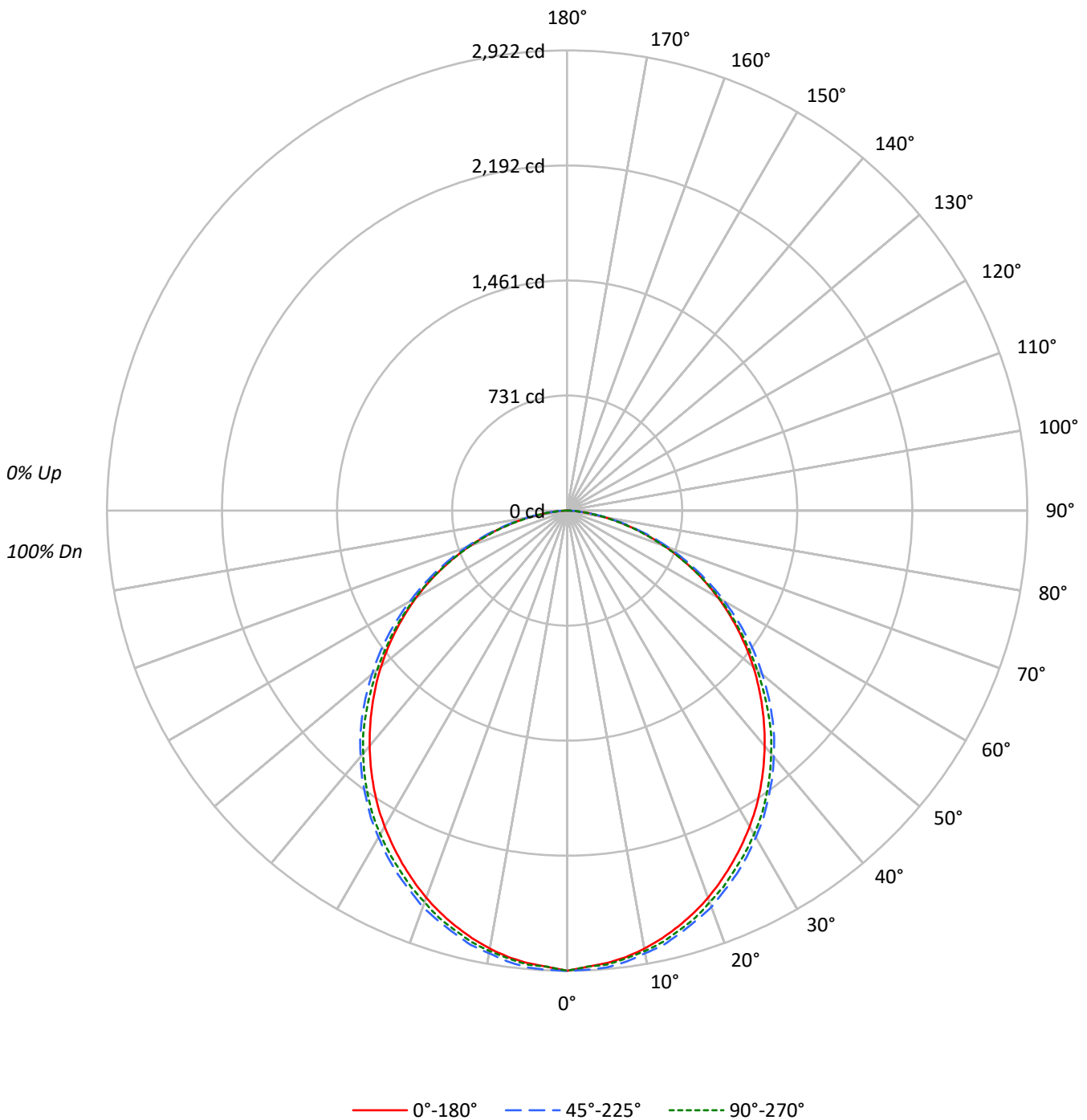
Lumens per Lamp: N/A
Luminaire Lumens: 7683.2 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 86.4
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	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					100			
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85					85			
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60					60			
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51					51			
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45					45			
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39					39			
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3932	3932	3932
5°	3896	3932	3908
10°	3860	3899	3880
15°	3807	3868	3841
20°	3747	3836	3790
25°	3674	3780	3737
30°	3599	3722	3687
35°	3518	3658	3624
40°	3427	3585	3539
45°	3331	3499	3433
50°	3231	3387	3298
55°	3113	3259	3159
60°	2981	3105	3009
65°	2809	2917	2811
70°	2585	2689	2556
75°	2276	2379	2241
80°	1850	1930	1829
85°	1288	1372	1340



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.2	3.6
10°-20°	780.0	10.2
20°-30°	1163.3	15.1
30°-40°	1378.5	17.9
40°-50°	1394.8	18.2
50°-60°	1218.2	15.9
60°-70°	890.2	11.6
70°-80°	473.6	6.2
80°-90°	109.5	1.4
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°	2218.4	28.9
0°-40°	3596.9	46.8
0°-60°	6209.9	80.8
0°-90°	7683.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7683.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2922	2922	2922	2922	2922	
5°	2884	2890	2912	2918	2894	274
15°	2733	2751	2777	2794	2757	770
25°	2474	2505	2546	2556	2517	1140
35°	2142	2176	2227	2242	2206	1340
45°	1750	1782	1839	1840	1804	1350
55°	1327	1354	1389	1369	1347	1186
65°	882	900	916	898	883	873
75°	438	448	458	441	431	465
85°	83	85	89	90	87	106
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2922.4	2922.4	2922.4	2922.4	2922.4
2.5°	2899.6	2909.0	2918.8	2923.0	2899.3
5°	2884.4	2889.8	2911.5	2918.2	2893.5
7.5°	2859.4	2867.6	2888.6	2891.7	2867.9
10°	2825.3	2839.9	2853.9	2869.1	2840.2
12.5°	2781.7	2801.5	2825.3	2828.0	2806.1
15°	2732.7	2751.0	2776.9	2793.6	2757.4
17.5°	2677.9	2695.6	2729.1	2732.1	2710.2
20°	2616.7	2638.6	2678.8	2685.8	2646.6
22.5°	2547.3	2576.8	2610.3	2617.0	2588.1
25°	2474.5	2505.0	2546.4	2555.8	2517.2
27.5°	2398.4	2427.6	2474.2	2480.9	2448.3
30°	2316.8	2344.2	2395.4	2406.6	2373.4
32.5°	2234.0	2261.4	2318.0	2327.5	2295.2
35°	2142.0	2175.5	2227.0	2242.5	2206.3
37.5°	2048.2	2080.8	2139.3	2153.3	2114.3
40°	1951.1	1983.4	2040.9	2052.5	2015.1
42.5°	1851.9	1884.1	1945.6	1947.5	1916.4
45°	1750.5	1781.5	1838.8	1840.3	1804.1
47.5°	1647.6	1678.9	1730.1	1724.3	1690.2
50°	1543.4	1573.3	1618.0	1606.4	1575.7
52.5°	1435.6	1464.6	1506.9	1488.0	1459.1
55°	1327.2	1354.0	1389.4	1369.3	1346.7
57.5°	1217.9	1245.0	1272.1	1251.7	1232.2
60°	1107.7	1131.5	1153.7	1133.0	1118.1
62.5°	995.7	1016.1	1035.2	1015.4	1001.4
65°	882.4	900.4	916.2	897.9	883.0
67.5°	769.7	785.0	799.6	780.7	765.2
70°	657.1	670.2	683.6	664.1	649.8
72.5°	545.9	557.5	569.4	550.5	538.0
75°	437.8	447.9	457.6	440.9	431.1
77.5°	334.6	343.2	349.8	339.2	329.8
80°	238.7	245.1	249.1	244.8	236.0
82.5°	153.5	158.0	160.2	159.9	154.1
85°	83.4	85.0	88.9	89.8	86.8
87.5°	32.3	34.4	35.3	38.1	35.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)