

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: P489464

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-2STD-50-120-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: P489464
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-LD4-2STD-50-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

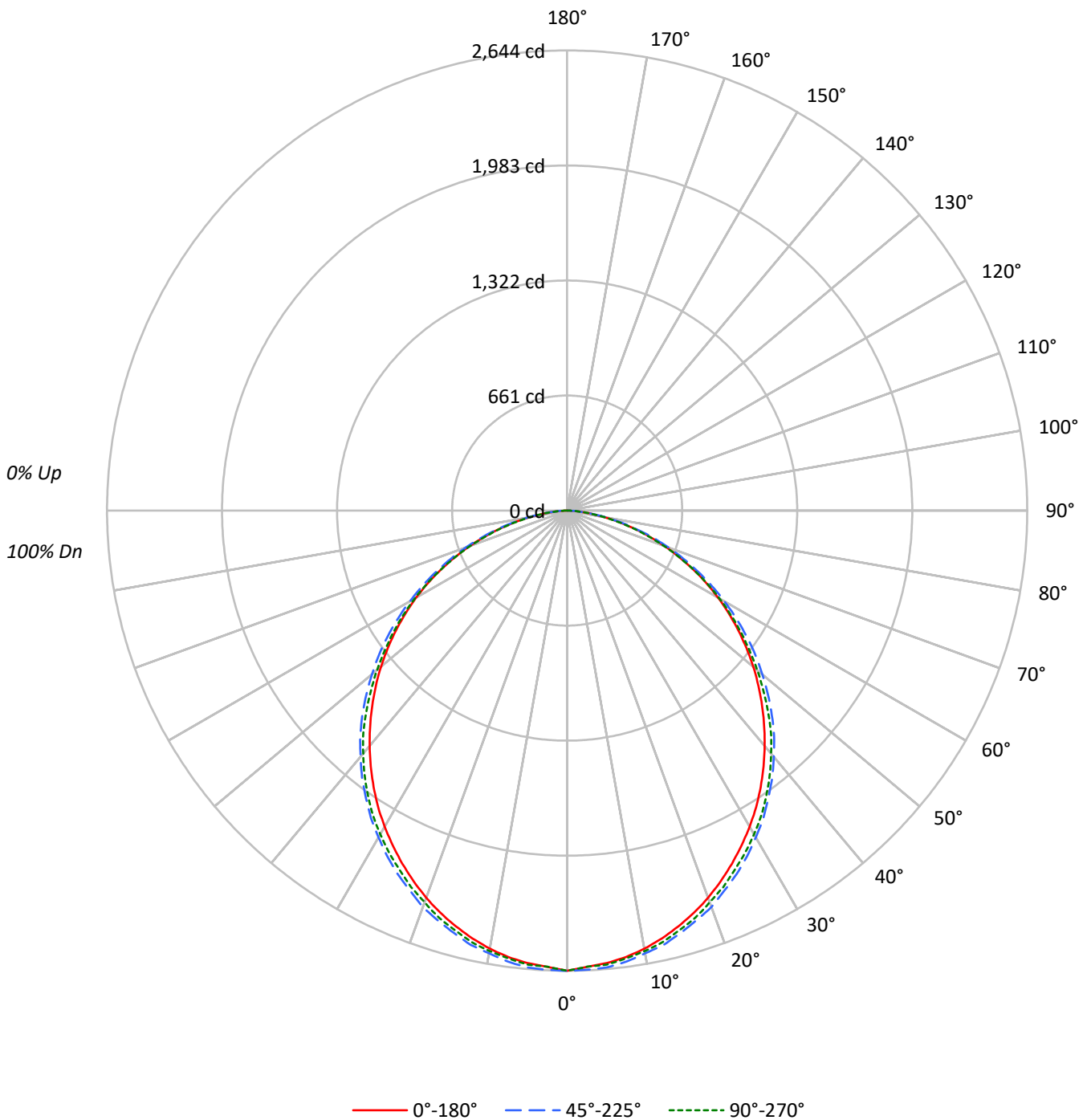
Lumens per Lamp: N/A
Luminaire Lumens: 6952.4 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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°	3558	3558	3558
5°	3525	3558	3536
10°	3493	3528	3511
15°	3444	3500	3476
20°	3390	3471	3429
25°	3324	3421	3381
30°	3257	3368	3337
35°	3184	3310	3279
40°	3101	3244	3203
45°	3014	3166	3106
50°	2923	3065	2984
55°	2817	2949	2859
60°	2697	2809	2722
65°	2542	2639	2544
70°	2339	2433	2313
75°	2060	2153	2028
80°	1674	1746	1654
85°	1166	1243	1212



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.1	3.6
10°-20°	705.8	10.2
20°-30°	1052.6	15.1
30°-40°	1247.4	17.9
40°-50°	1262.1	18.2
50°-60°	1102.3	15.9
60°-70°	805.5	11.6
70°-80°	428.6	6.2
80°-90°	99.1	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
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0°-30°	2007.4	28.9
0°-40°	3254.8	46.8
0°-60°	5619.2	80.8
0°-90°	6952.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6952.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2644	2644	2644	2644	2644	
5°	2610	2615	2634	2641	2618	247
15°	2473	2489	2513	2528	2495	697
25°	2239	2267	2304	2313	2278	1032
35°	1938	1969	2015	2029	1996	1212
45°	1584	1612	1664	1665	1632	1222
55°	1201	1225	1257	1239	1219	1074
65°	798	815	829	812	799	790
75°	396	405	414	399	390	421
85°	76	77	80	81	78	96
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2644.4	2644.4	2644.4	2644.4	2644.4
2.5°	2623.8	2632.3	2641.1	2645.0	2623.5
5°	2610.0	2615.0	2634.5	2640.6	2618.3
7.5°	2587.4	2594.9	2613.9	2616.6	2595.1
10°	2556.6	2569.8	2582.5	2596.2	2570.1
12.5°	2517.2	2535.1	2556.6	2559.0	2539.2
15°	2472.8	2489.3	2512.7	2527.9	2495.1
17.5°	2423.2	2439.2	2469.5	2472.2	2452.4
20°	2367.8	2387.7	2424.0	2430.4	2394.8
22.5°	2305.0	2331.7	2362.0	2368.1	2341.9
25°	2239.2	2266.7	2304.2	2312.7	2277.7
27.5°	2170.3	2196.7	2238.9	2244.9	2215.5
30°	2096.4	2121.2	2167.5	2177.7	2147.7
32.5°	2021.5	2046.3	2097.5	2106.1	2076.9
35°	1938.3	1968.6	2015.2	2029.2	1996.4
37.5°	1853.4	1882.9	1935.8	1948.5	1913.2
40°	1765.5	1794.7	1846.8	1857.3	1823.4
42.5°	1675.7	1704.9	1760.6	1762.2	1734.1
45°	1584.0	1612.1	1663.9	1665.2	1632.5
47.5°	1490.8	1519.2	1565.5	1560.3	1529.4
50°	1396.6	1423.6	1464.1	1453.6	1425.8
52.5°	1299.1	1325.3	1363.6	1346.5	1320.3
55°	1201.0	1225.2	1257.2	1239.0	1218.6
57.5°	1102.1	1126.6	1151.1	1132.7	1115.0
60°	1002.3	1023.8	1043.9	1025.2	1011.7
62.5°	901.0	919.4	936.8	918.9	906.2
65°	798.5	814.7	829.0	812.5	799.0
67.5°	696.5	710.3	723.5	706.4	692.4
70°	594.6	606.4	618.5	600.9	588.0
72.5°	494.0	504.5	515.2	498.1	486.8
75°	396.2	405.3	414.1	399.0	390.1
77.5°	302.8	310.5	316.6	306.9	298.4
80°	216.0	221.8	225.4	221.5	213.5
82.5°	138.9	143.0	144.9	144.6	139.4
85°	75.5	76.9	80.5	81.3	78.5
87.5°	29.2	31.1	32.0	34.4	31.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)