

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: P489459

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-2STD-30-120-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: P489459
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-30-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

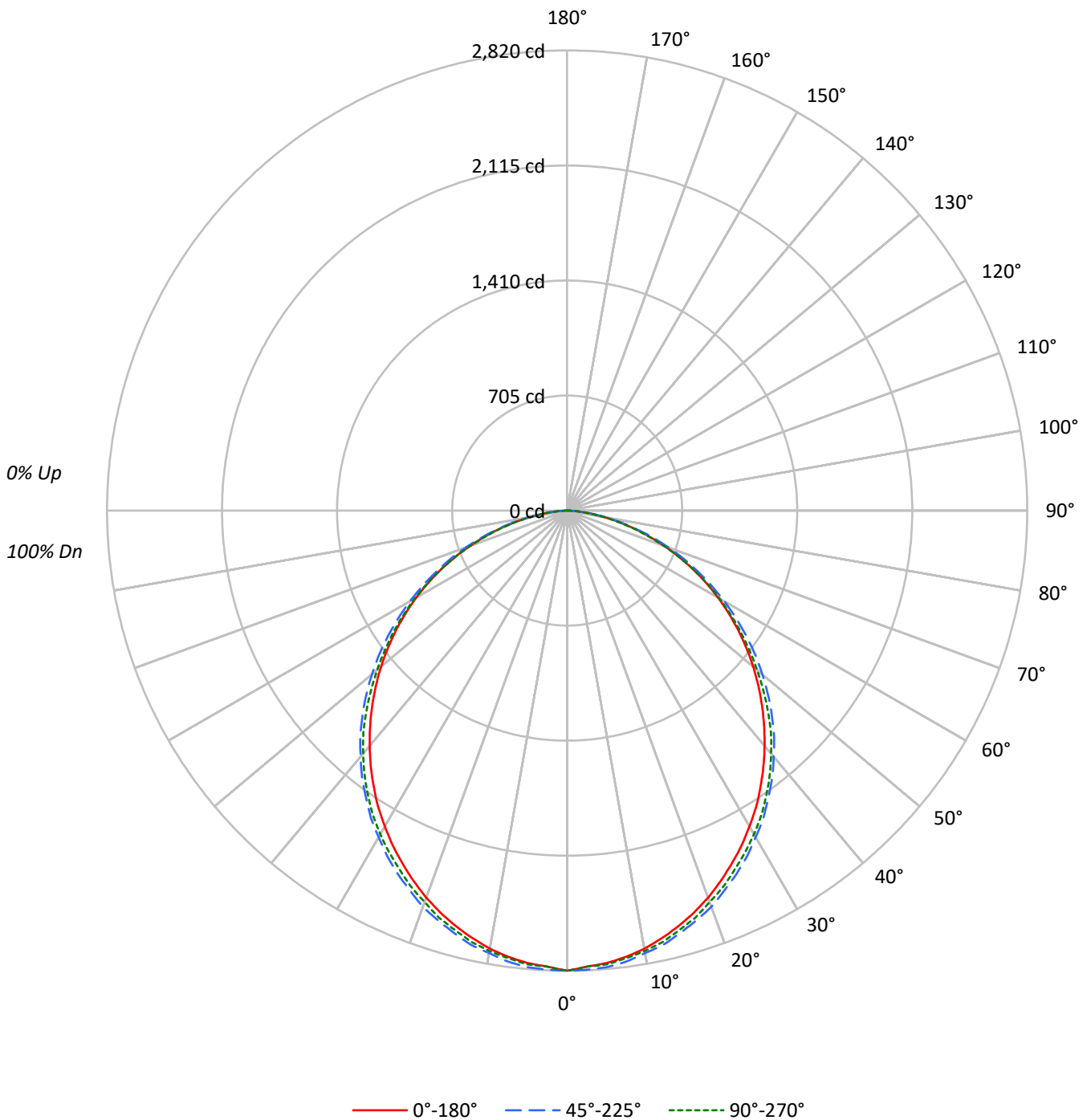
Lumens per Lamp: N/A
Luminaire Lumens: 7412.7 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	3794	3794	3794
5°	3759	3794	3770
10°	3724	3762	3744
15°	3673	3732	3706
20°	3615	3701	3656
25°	3544	3647	3605
30°	3473	3590	3558
35°	3394	3529	3496
40°	3306	3459	3415
45°	3213	3376	3312
50°	3117	3268	3182
55°	3004	3144	3048
60°	2876	2995	2903
65°	2710	2814	2712
70°	2494	2594	2466
75°	2196	2295	2163
80°	1784	1862	1764
85°	1243	1325	1292



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.5	3.6
10°-20°	752.5	10.2
20°-30°	1122.3	15.1
30°-40°	1330.0	17.9
40°-50°	1345.7	18.2
50°-60°	1175.3	15.9
60°-70°	858.8	11.6
70°-80°	457.0	6.2
80°-90°	105.6	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°	2140.3	28.9
0°-40°	3470.3	46.8
0°-60°	5991.3	80.8
0°-90°	7412.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7412.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2820	2820	2820	2820	2820	
5°	2783	2788	2809	2815	2792	264
15°	2636	2654	2679	2695	2660	743
25°	2387	2417	2457	2466	2428	1100
35°	2067	2099	2149	2164	2129	1292
45°	1689	1719	1774	1776	1740	1303
55°	1280	1306	1340	1321	1299	1145
65°	851	869	884	866	852	842
75°	422	432	442	425	416	449
85°	80	82	86	87	84	102
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2819.5	2819.5	2819.5	2819.5	2819.5
2.5°	2797.5	2806.6	2816.0	2820.1	2797.2
5°	2782.8	2788.1	2809.0	2815.4	2791.6
7.5°	2758.7	2766.7	2786.9	2789.9	2766.9
10°	2725.8	2739.9	2753.4	2768.1	2740.2
12.5°	2683.8	2702.9	2725.8	2728.5	2707.3
15°	2636.5	2654.1	2679.1	2695.3	2660.3
17.5°	2583.6	2600.7	2633.0	2635.9	2614.8
20°	2524.6	2545.7	2584.5	2591.3	2553.4
22.5°	2457.6	2486.1	2518.4	2524.9	2497.0
25°	2387.4	2416.8	2456.7	2465.8	2428.5
27.5°	2314.0	2342.2	2387.1	2393.6	2362.1
30°	2235.2	2261.7	2311.0	2321.9	2289.9
32.5°	2155.3	2181.8	2236.4	2245.5	2214.4
35°	2066.6	2098.9	2148.6	2163.6	2128.6
37.5°	1976.1	2007.6	2064.0	2077.5	2039.9
40°	1882.4	1913.6	1969.1	1980.2	1944.1
42.5°	1786.7	1817.8	1877.1	1878.9	1848.9
45°	1688.8	1718.8	1774.0	1775.5	1740.5
47.5°	1589.5	1619.8	1669.2	1663.6	1630.7
50°	1489.1	1517.9	1561.1	1549.9	1520.2
52.5°	1385.1	1413.0	1453.8	1435.6	1407.7
55°	1280.5	1306.4	1340.4	1321.0	1299.3
57.5°	1175.0	1201.2	1227.3	1207.7	1188.9
60°	1068.7	1091.6	1113.1	1093.1	1078.7
62.5°	960.6	980.3	998.8	979.7	966.2
65°	851.3	868.7	883.9	866.3	851.9
67.5°	742.6	757.3	771.4	753.2	738.2
70°	633.9	646.6	659.5	640.7	626.9
72.5°	526.7	537.9	549.3	531.1	519.1
75°	422.4	432.1	441.5	425.4	416.0
77.5°	322.8	331.1	337.5	327.3	318.1
80°	230.3	236.5	240.3	236.2	227.7
82.5°	148.1	152.5	154.5	154.2	148.6
85°	80.5	82.0	85.8	86.7	83.7
87.5°	31.1	33.2	34.1	36.7	33.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)