

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: P489491

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-3STD-20-120-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: P489491
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-LD4-3STD-20-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

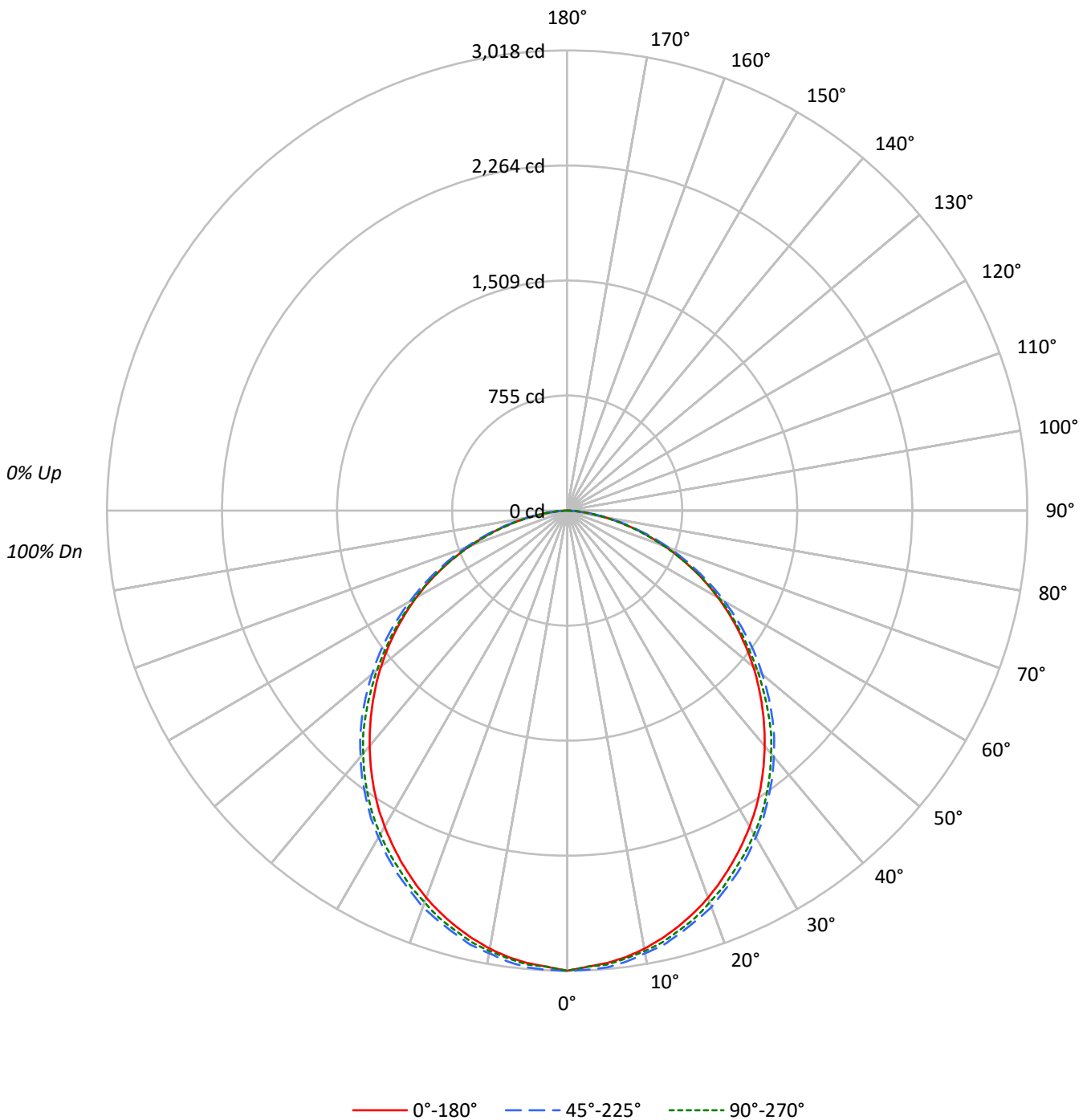
Lumens per Lamp: N/A
Luminaire Lumens: 7935.8 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	4061	4061	4061
5°	4024	4062	4036
10°	3987	4027	4008
15°	3932	3995	3967
20°	3870	3962	3914
25°	3794	3905	3860
30°	3718	3844	3809
35°	3634	3778	3743
40°	3540	3703	3656
45°	3440	3614	3546
50°	3337	3498	3407
55°	3216	3366	3263
60°	3079	3207	3108
65°	2902	3013	2904
70°	2670	2777	2640
75°	2351	2457	2315
80°	1911	1994	1888
85°	1331	1417	1383



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.3	3.6
10°-20°	805.6	10.2
20°-30°	1201.5	15.1
30°-40°	1423.8	17.9
40°-50°	1440.7	18.2
50°-60°	1258.2	15.9
60°-70°	919.5	11.6
70°-80°	489.2	6.2
80°-90°	113.1	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
0°-30°	2291.4	28.9
0°-40°	3715.2	46.8
0°-60°	6414.0	80.8
0°-90°	7935.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7935.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3018	3018	3018	3018	3018	
5°	2979	2985	3007	3014	2989	282
15°	2823	2841	2868	2886	2848	796
25°	2556	2587	2630	2640	2600	1178
35°	2212	2247	2300	2316	2279	1384
45°	1808	1840	1899	1901	1863	1395
55°	1371	1398	1435	1414	1391	1225
65°	911	930	946	927	912	902
75°	452	463	473	455	445	481
85°	86	88	92	93	90	109
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3018.5	3018.5	3018.5	3018.5	3018.5
2.5°	2994.9	3004.7	3014.7	3019.1	2994.6
5°	2979.2	2984.8	3007.2	3014.1	2988.6
7.5°	2953.4	2961.9	2983.6	2986.7	2962.2
10°	2918.2	2933.3	2947.7	2963.5	2933.6
12.5°	2873.2	2893.6	2918.2	2921.0	2898.4
15°	2822.6	2841.4	2868.2	2885.5	2848.0
17.5°	2766.0	2784.2	2818.8	2821.9	2799.3
20°	2702.7	2725.4	2766.9	2774.1	2733.6
22.5°	2631.0	2661.5	2696.1	2703.1	2673.2
25°	2555.9	2587.3	2630.1	2639.8	2599.9
27.5°	2477.3	2507.4	2555.6	2562.5	2528.8
30°	2393.0	2421.3	2474.1	2485.7	2451.5
32.5°	2307.4	2335.7	2394.2	2404.0	2370.6
35°	2212.5	2247.0	2300.2	2316.2	2278.8
37.5°	2115.6	2149.2	2209.6	2224.1	2183.8
40°	2015.3	2048.6	2108.0	2120.0	2081.3
42.5°	1912.7	1946.1	2009.6	2011.5	1979.4
45°	1808.0	1840.1	1899.2	1900.8	1863.4
47.5°	1701.7	1734.1	1786.9	1781.0	1745.7
50°	1594.2	1625.0	1671.2	1659.3	1627.5
52.5°	1482.8	1512.7	1556.4	1536.9	1507.0
55°	1370.9	1398.5	1435.0	1414.3	1391.0
57.5°	1258.0	1286.0	1313.9	1292.9	1272.7
60°	1144.1	1168.7	1191.6	1170.2	1154.8
62.5°	1028.4	1049.5	1069.3	1048.8	1034.4
65°	911.4	930.0	946.3	927.4	912.0
67.5°	795.0	810.8	825.9	806.4	790.3
70°	678.7	692.2	706.0	685.9	671.1
72.5°	563.9	575.8	588.1	568.6	555.7
75°	452.2	462.6	472.7	455.4	445.3
77.5°	345.6	354.4	361.4	350.3	340.6
80°	246.6	253.2	257.3	252.9	243.7
82.5°	158.5	163.2	165.4	165.1	159.1
85°	86.2	87.7	91.8	92.8	89.6
87.5°	33.3	35.5	36.5	39.3	36.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)