

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: P489488

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-3LO-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: P489488
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-LD4-3LO-50-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

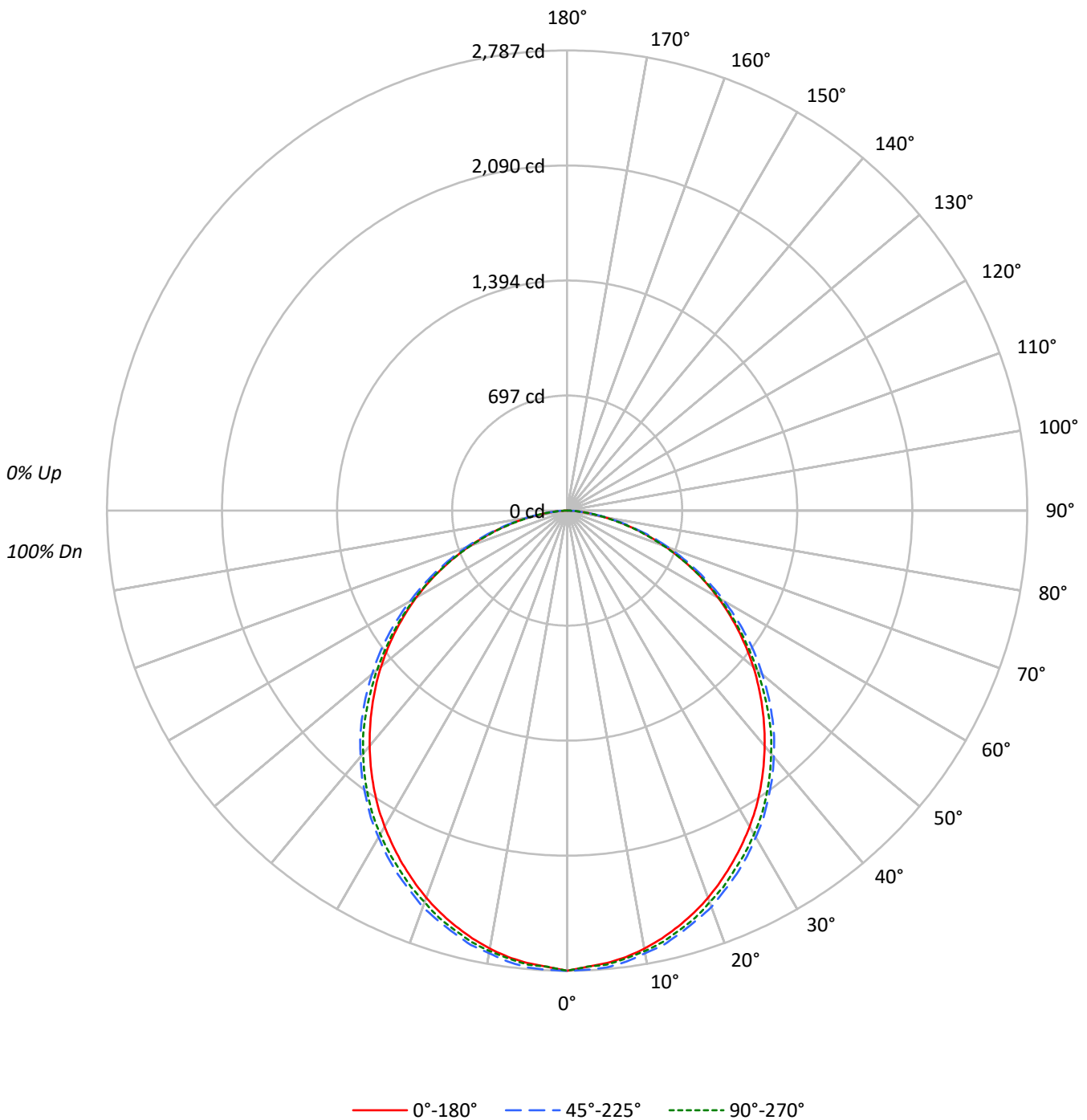
Lumens per Lamp: N/A
Luminaire Lumens: 7328.2 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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	105	100	97	106	102	98	95	98	95	92		94	92	89		91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76		83	78	75		80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64		73	68	63		71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55		65	59	54		63	58	54	51
5	77	64	55	48	75	63	54	48	61	53	48		59	52	47		57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42		53	47	41		52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37		49	42	37		47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33		45	38	33		43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30		41	35	30		40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27		38	32	27		37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3750	3750	3750
5°	3716	3751	3727
10°	3682	3719	3701
15°	3631	3689	3663
20°	3574	3658	3614
25°	3504	3606	3564
30°	3433	3550	3517
35°	3356	3489	3456
40°	3269	3419	3376
45°	3177	3337	3274
50°	3081	3230	3146
55°	2970	3109	3013
60°	2843	2961	2870
65°	2679	2782	2681
70°	2465	2565	2438
75°	2171	2269	2138
80°	1764	1841	1744
85°	1229	1309	1278



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.5	3.6
10°-20°	743.9	10.2
20°-30°	1109.5	15.1
30°-40°	1314.8	17.9
40°-50°	1330.4	18.2
50°-60°	1161.9	15.9
60°-70°	849.1	11.6
70°-80°	451.8	6.2
80°-90°	104.4	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°	2115.9	28.9
0°-40°	3430.7	46.8
0°-60°	5923.0	80.8
0°-90°	7328.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7328.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2787	2787	2787	2787	2787	
5°	2751	2756	2777	2783	2760	261
15°	2606	2624	2649	2664	2630	735
25°	2360	2389	2429	2438	2401	1087
35°	2043	2075	2124	2139	2104	1278
45°	1670	1699	1754	1755	1721	1288
55°	1266	1292	1325	1306	1284	1132
65°	842	859	874	856	842	833
75°	418	427	436	420	411	444
85°	80	81	85	86	83	101
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2787.4	2787.4	2787.4	2787.4	2787.4
2.5°	2765.6	2774.6	2783.9	2788.0	2765.3
5°	2751.1	2756.3	2776.9	2783.3	2759.8
7.5°	2727.3	2735.1	2755.2	2758.1	2735.4
10°	2694.7	2708.7	2722.0	2736.6	2709.0
12.5°	2653.2	2672.1	2694.7	2697.4	2676.4
15°	2606.5	2623.9	2648.6	2664.5	2630.0
17.5°	2554.2	2571.0	2603.0	2605.9	2585.0
20°	2495.8	2516.7	2555.1	2561.7	2524.3
22.5°	2429.6	2457.8	2489.7	2496.1	2468.5
25°	2360.2	2389.2	2428.7	2437.7	2400.8
27.5°	2287.6	2315.5	2359.9	2366.3	2335.2
30°	2209.8	2235.9	2284.7	2295.4	2263.8
32.5°	2130.8	2156.9	2210.9	2219.9	2189.1
35°	2043.1	2075.0	2124.1	2138.9	2104.3
37.5°	1953.6	1984.7	2040.4	2053.8	2016.6
40°	1861.0	1891.8	1946.6	1957.7	1922.0
42.5°	1766.3	1797.1	1855.7	1857.5	1827.9
45°	1669.6	1699.2	1753.8	1755.3	1720.7
47.5°	1571.4	1601.3	1650.1	1644.6	1612.1
50°	1472.1	1500.6	1543.3	1532.2	1502.9
52.5°	1369.3	1396.9	1437.3	1419.2	1391.7
55°	1265.9	1291.5	1325.2	1306.0	1284.5
57.5°	1161.7	1187.5	1213.3	1193.9	1175.3
60°	1056.5	1079.2	1100.4	1080.6	1066.4
62.5°	949.7	969.1	987.4	968.5	955.2
65°	841.6	858.8	873.9	856.4	842.2
67.5°	734.2	748.7	762.6	744.6	729.8
70°	626.7	639.2	652.0	633.4	619.7
72.5°	520.7	531.7	543.1	525.1	513.2
75°	417.6	427.2	436.5	420.5	411.2
77.5°	319.2	327.3	333.7	323.5	314.5
80°	227.7	233.8	237.6	233.5	225.1
82.5°	146.4	150.7	152.8	152.5	146.9
85°	79.6	81.0	84.8	85.7	82.8
87.5°	30.8	32.8	33.7	36.3	33.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)