

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: P489560

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-5LO-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: P489560
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-LD4-5LO-50-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

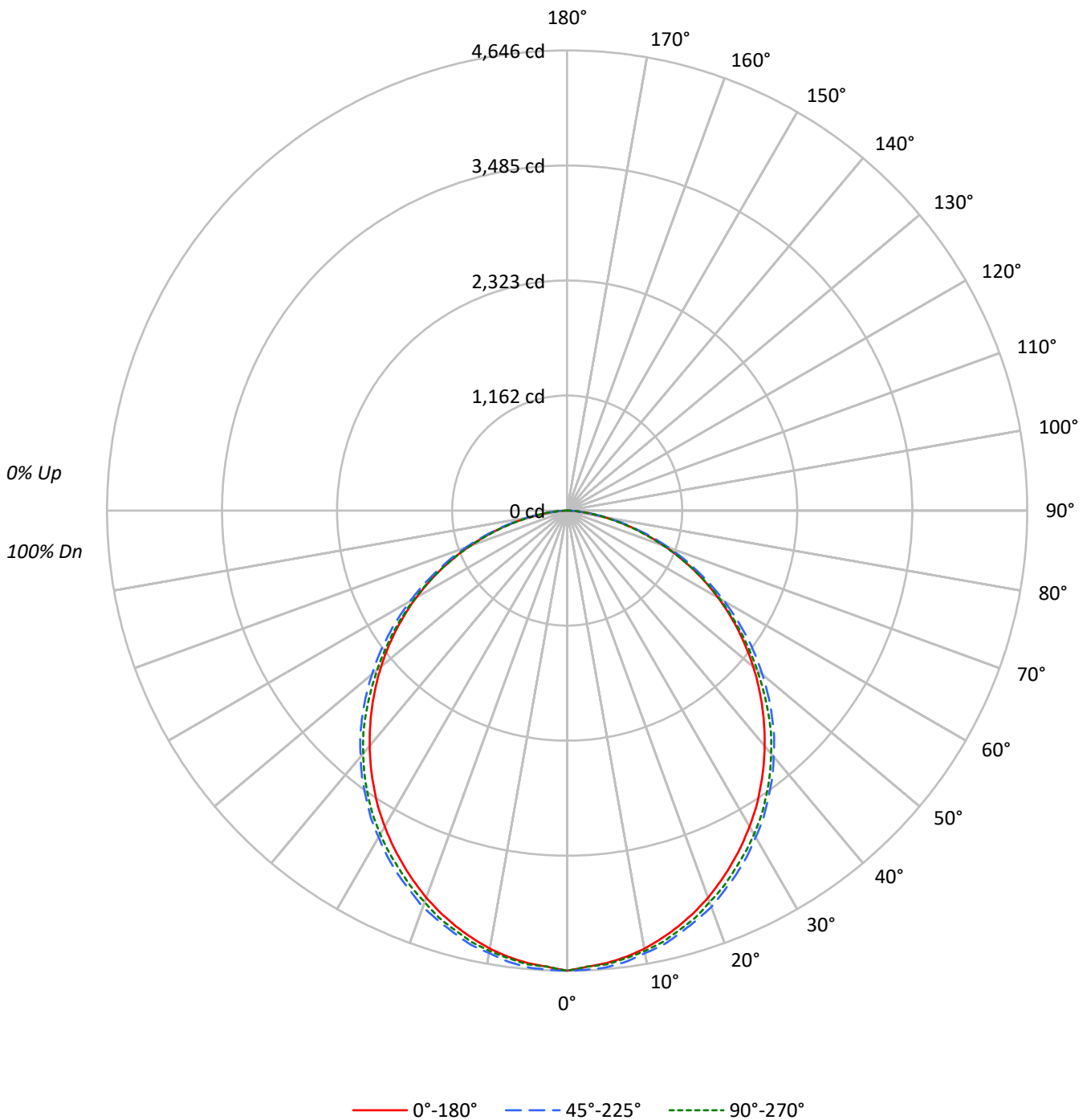
Lumens per Lamp: N/A
Luminaire Lumens: 12213.7 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 117
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°	6251	6251	6251
5°	6193	6251	6212
10°	6136	6198	6169
15°	6051	6149	6106
20°	5956	6097	6024
25°	5840	6009	5940
30°	5722	5916	5862
35°	5593	5815	5761
40°	5448	5699	5626
45°	5295	5562	5457
50°	5136	5384	5243
55°	4949	5181	5022
60°	4739	4935	4783
65°	4466	4637	4469
70°	4109	4275	4063
75°	3618	3782	3563
80°	2941	3068	2906
85°	2047	2181	2129



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.5	3.6
10°-20°	1239.9	10.2
20°-30°	1849.2	15.1
30°-40°	2191.3	17.9
40°-50°	2217.3	18.2
50°-60°	1936.5	15.9
60°-70°	1415.1	11.6
70°-80°	752.9	6.2
80°-90°	174.0	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°	3526.6	28.9
0°-40°	5717.9	46.8
0°-60°	9871.6	80.8
0°-90°	12213.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12213.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4646	4646	4646	4646	4646	
5°	4585	4594	4628	4639	4600	435
15°	4344	4373	4414	4441	4383	1225
25°	3934	3982	4048	4063	4001	1812
35°	3405	3458	3540	3565	3507	2129
45°	2783	2832	2923	2925	2868	2147
55°	2110	2152	2209	2177	2141	1886
65°	1403	1431	1456	1427	1404	1388
75°	696	712	728	701	685	740
85°	133	135	141	143	138	168
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4645.7	4645.7	4645.7	4645.7	4645.7
2.5°	4609.4	4624.4	4639.8	4646.6	4608.9
5°	4585.2	4593.9	4628.2	4638.9	4599.7
7.5°	4545.5	4558.5	4591.9	4596.8	4559.0
10°	4491.3	4514.5	4536.8	4561.0	4515.0
12.5°	4422.0	4453.5	4491.3	4495.6	4460.8
15°	4344.1	4373.2	4414.3	4440.9	4383.3
17.5°	4257.0	4285.1	4338.3	4343.1	4308.3
20°	4159.7	4194.5	4258.4	4269.6	4207.1
22.5°	4049.3	4096.3	4149.5	4160.2	4114.2
25°	3933.7	3982.1	4047.9	4062.9	4001.4
27.5°	3812.7	3859.1	3933.2	3943.8	3892.0
30°	3682.9	3726.5	3807.8	3825.7	3773.0
32.5°	3551.3	3594.8	3684.9	3699.9	3648.6
35°	3405.1	3458.3	3540.1	3564.8	3507.2
37.5°	3256.0	3307.8	3400.7	3423.0	3361.1
40°	3101.6	3152.9	3244.4	3262.8	3203.3
42.5°	2943.8	2995.1	3092.9	3095.8	3046.4
45°	2782.7	2832.0	2923.0	2925.4	2867.8
47.5°	2619.1	2668.9	2750.2	2741.0	2686.8
50°	2453.5	2500.9	2572.1	2553.7	2504.8
52.5°	2282.2	2328.2	2395.4	2365.4	2319.4
55°	2109.9	2152.5	2208.6	2176.7	2140.8
57.5°	1936.1	1979.2	2022.2	1989.8	1958.8
60°	1760.9	1798.6	1834.0	1801.1	1777.3
62.5°	1582.8	1615.2	1645.7	1614.2	1592.0
65°	1402.7	1431.3	1456.4	1427.4	1403.7
67.5°	1223.6	1247.8	1271.0	1241.0	1216.4
70°	1044.5	1065.3	1086.6	1055.7	1032.9
72.5°	867.9	886.2	905.1	875.1	855.3
75°	696.0	712.0	727.5	700.9	685.4
77.5°	531.9	545.5	556.1	539.2	524.2
80°	379.5	389.6	395.9	389.2	375.1
82.5°	243.9	251.2	254.6	254.1	244.9
85°	132.6	135.0	141.3	142.8	137.9
87.5°	51.3	54.7	56.1	60.5	55.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)