

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: P488612

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-3HI-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: P488612
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-12-4-INS-A12125-LD4-3HI-50-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

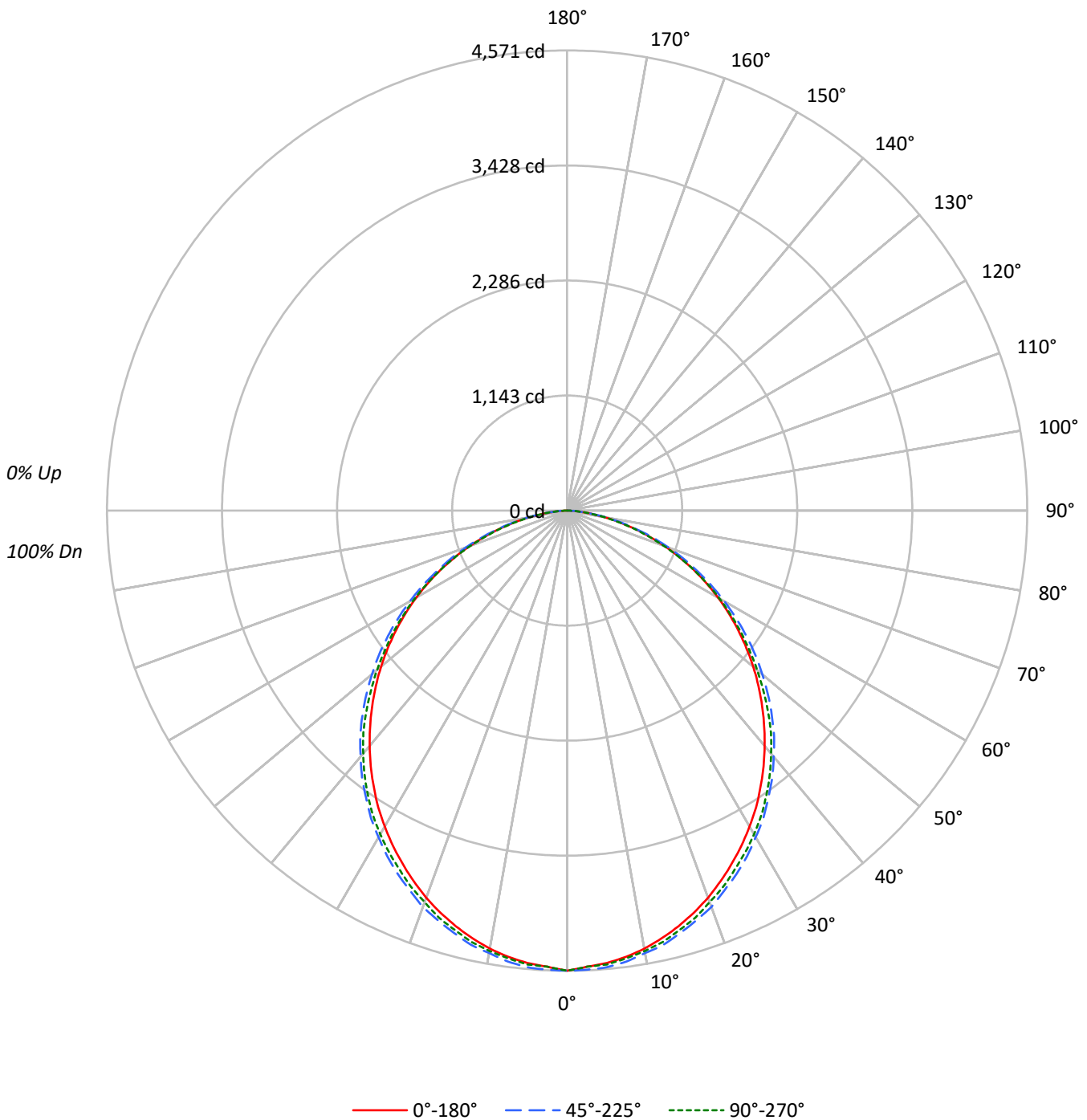
Lumens per Lamp: N/A
Luminaire Lumens: 12017.2 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 129.6
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	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°	12300	12300	12300
5°	12186	12301	12225
10°	12075	12197	12139
15°	11908	12100	12015
20°	11720	11999	11854
25°	11492	11826	11690
30°	11260	11642	11535
35°	11006	11443	11336
40°	10720	11214	11071
45°	10419	10945	10738
50°	10106	10595	10317
55°	9739	10195	9882
60°	9324	9712	9411
65°	8788	9124	8794
70°	8086	8412	7996
75°	7120	7442	7012
80°	5786	6038	5720
85°	4029	4295	4190



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	430.5	3.6
10°-20°	1219.9	10.2
20°-30°	1819.4	15.1
30°-40°	2156.1	17.9
40°-50°	2181.6	18.2
50°-60°	1905.3	15.9
60°-70°	1392.3	11.6
70°-80°	740.8	6.2
80°-90°	171.2	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°	3469.9	28.9
0°-40°	5625.9	46.8
0°-60°	9712.8	80.8
0°-90°	12017.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12017.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4571	4571	4571	4571	4571	
5°	4511	4520	4554	4564	4526	428
15°	4274	4303	4343	4370	4313	1205
25°	3870	3918	3983	3998	3937	1783
35°	3350	3403	3483	3508	3451	2095
45°	2738	2786	2876	2878	2822	2112
55°	2076	2118	2173	2142	2106	1856
65°	1380	1408	1433	1404	1381	1366
75°	685	700	716	690	674	728
85°	130	133	139	140	136	165
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4570.9	4570.9	4570.9	4570.9	4570.9
2.5°	4535.2	4550.0	4565.2	4571.9	4534.7
5°	4511.4	4520.0	4553.8	4564.2	4525.7
7.5°	4472.3	4485.2	4518.1	4522.8	4485.7
10°	4419.0	4441.9	4463.8	4487.6	4442.3
12.5°	4350.9	4381.8	4419.0	4423.3	4389.0
15°	4274.2	4302.8	4343.3	4369.5	4312.8
17.5°	4188.5	4216.1	4268.5	4273.3	4239.0
20°	4092.8	4127.1	4189.9	4200.9	4139.4
22.5°	3984.2	4030.4	4082.8	4093.3	4048.0
25°	3870.4	3918.0	3982.8	3997.5	3937.0
27.5°	3751.3	3797.0	3869.9	3880.4	3829.4
30°	3623.7	3666.5	3746.6	3764.2	3712.3
32.5°	3494.1	3537.0	3625.6	3640.3	3589.9
35°	3350.3	3402.7	3483.2	3507.5	3450.8
37.5°	3203.6	3254.6	3346.0	3367.9	3307.0
40°	3051.7	3102.2	3192.2	3210.3	3151.7
42.5°	2896.5	2946.9	3043.1	3046.0	2997.4
45°	2737.9	2786.5	2876.0	2878.4	2821.7
47.5°	2576.9	2626.0	2706.0	2696.9	2643.6
50°	2414.0	2460.7	2530.7	2512.6	2464.5
52.5°	2245.5	2290.7	2356.9	2327.4	2282.1
55°	2075.9	2117.8	2173.1	2141.6	2106.4
57.5°	1904.9	1947.3	1989.7	1957.8	1927.3
60°	1732.5	1769.7	1804.5	1772.1	1748.7
62.5°	1557.3	1589.2	1619.2	1588.2	1566.3
65°	1380.1	1408.2	1433.0	1404.4	1381.1
67.5°	1203.9	1227.7	1250.6	1221.1	1196.8
70°	1027.7	1048.2	1069.2	1038.7	1016.3
72.5°	853.9	872.0	890.6	861.0	841.5
75°	684.8	700.5	715.8	689.6	674.4
77.5°	523.4	536.7	547.2	530.5	515.8
80°	373.4	383.4	389.6	382.9	369.1
82.5°	240.0	247.2	250.5	250.0	241.0
85°	130.5	132.9	139.1	140.5	135.7
87.5°	50.5	53.8	55.2	59.5	54.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)