

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: P489915

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-5LO-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: P489915
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387254)
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-P12125-LD4-5LO-30-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

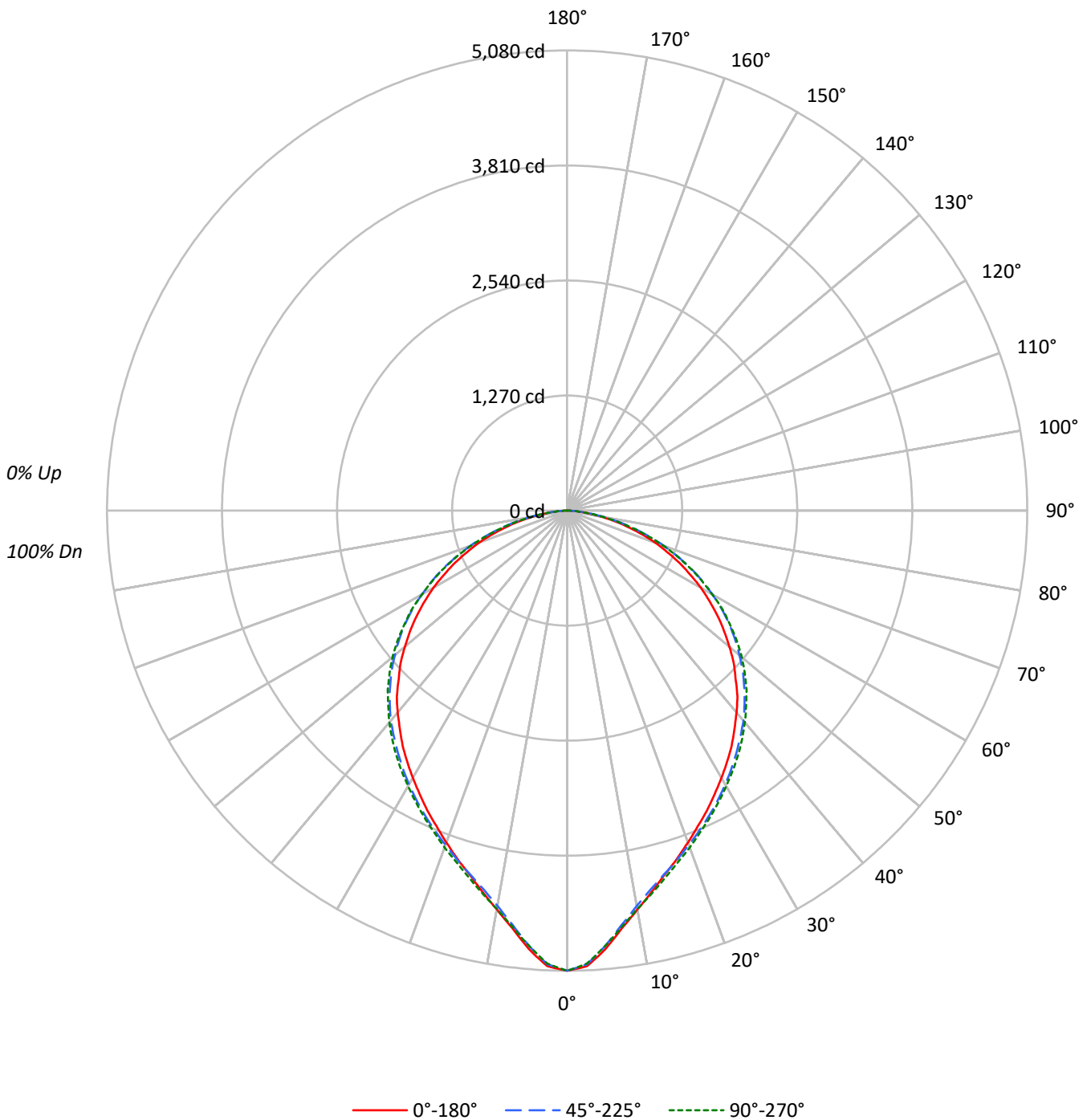
Lumens per Lamp: N/A
Luminaire Lumens: 11798.8 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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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CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-5LO-30-120-EDD

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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6835	6835	6835
5°	6562	6516	6516
10°	6108	6052	6099
15°	5796	5785	5841
20°	5583	5623	5667
25°	5423	5512	5544
30°	5293	5423	5456
35°	5202	5354	5408
40°	5110	5317	5361
45°	5004	5265	5328
50°	4894	5200	5269
55°	4758	5124	5145
60°	4587	4983	4973
65°	4348	4792	4760
70°	4059	4469	4414
75°	3583	3959	3919
80°	2911	3226	3068
85°	2019	2056	1979



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.8	3.8
10°-20°	1175.7	10.0
20°-30°	1709.7	14.5
30°-40°	2034.5	17.2
40°-50°	2112.5	17.9
50°-60°	1913.8	16.2
60°-70°	1444.1	12.2
70°-80°	786.9	6.7
80°-90°	172.9	1.5
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°	3334.2	28.3
0°-40°	5368.6	45.5
0°-60°	9394.9	79.6
0°-90°	11798.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11798.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5080	5080	5080	5080	5080	
5°	4859	4847	4824	4822	4824	451
15°	4161	4150	4153	4181	4194	1174
25°	3653	3683	3713	3743	3734	1683
35°	3167	3205	3260	3309	3292	1980
45°	2630	2677	2767	2798	2800	2033
55°	2028	2076	2184	2200	2193	1811
65°	1366	1405	1505	1503	1495	1350
75°	689	717	762	767	754	734
85°	131	132	133	132	128	165
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5079.6	5079.6	5079.6	5079.6	5079.6
2.5°	5035.1	5030.0	5013.5	5007.2	5005.9
5°	4858.7	4847.3	4824.4	4821.9	4824.4
7.5°	4648.0	4635.3	4612.5	4621.4	4632.8
10°	4470.3	4438.6	4429.6	4442.4	4464.0
12.5°	4311.6	4286.3	4278.6	4311.6	4326.9
15°	4160.6	4150.4	4153.0	4181.0	4193.6
17.5°	4029.9	4023.5	4040.1	4061.6	4068.0
20°	3899.1	3911.9	3927.1	3950.0	3957.5
22.5°	3771.0	3795.0	3820.5	3850.9	3840.8
25°	3652.9	3683.4	3712.6	3743.0	3734.2
27.5°	3527.2	3562.7	3603.4	3636.4	3623.7
30°	3406.6	3451.1	3490.5	3531.0	3512.0
32.5°	3287.4	3329.3	3376.2	3425.7	3404.1
35°	3166.8	3204.9	3259.5	3309.0	3292.5
37.5°	3033.5	3080.5	3142.6	3185.8	3174.4
40°	2909.1	2952.3	3027.2	3055.1	3052.5
42.5°	2783.5	2819.1	2897.7	2929.4	2924.4
45°	2629.9	2676.9	2766.9	2797.5	2800.0
47.5°	2494.1	2533.5	2629.9	2654.0	2659.1
50°	2338.0	2387.5	2484.0	2513.1	2517.0
52.5°	2184.3	2237.6	2336.7	2357.0	2360.8
55°	2028.2	2076.5	2184.3	2199.7	2193.3
57.5°	1864.6	1922.9	2022.0	2029.5	2035.9
60°	1704.6	1755.4	1851.8	1862.0	1848.0
62.5°	1530.7	1582.7	1681.8	1684.3	1672.8
65°	1365.7	1405.1	1505.3	1502.8	1495.1
67.5°	1193.0	1241.3	1315.0	1317.4	1311.2
70°	1031.9	1064.9	1136.0	1137.3	1122.1
72.5°	858.0	893.5	950.6	943.1	939.3
75°	689.2	717.1	761.6	766.7	753.9
77.5°	534.4	554.7	587.7	583.9	569.9
80°	375.7	392.2	416.3	411.3	396.0
82.5°	239.8	250.1	265.3	258.9	252.6
85°	130.8	131.9	133.2	131.9	128.2
87.5°	48.2	49.5	49.5	48.2	44.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)