

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: P489835

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-3HI-40-120-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: P489835
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-LD4-3HI-40-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

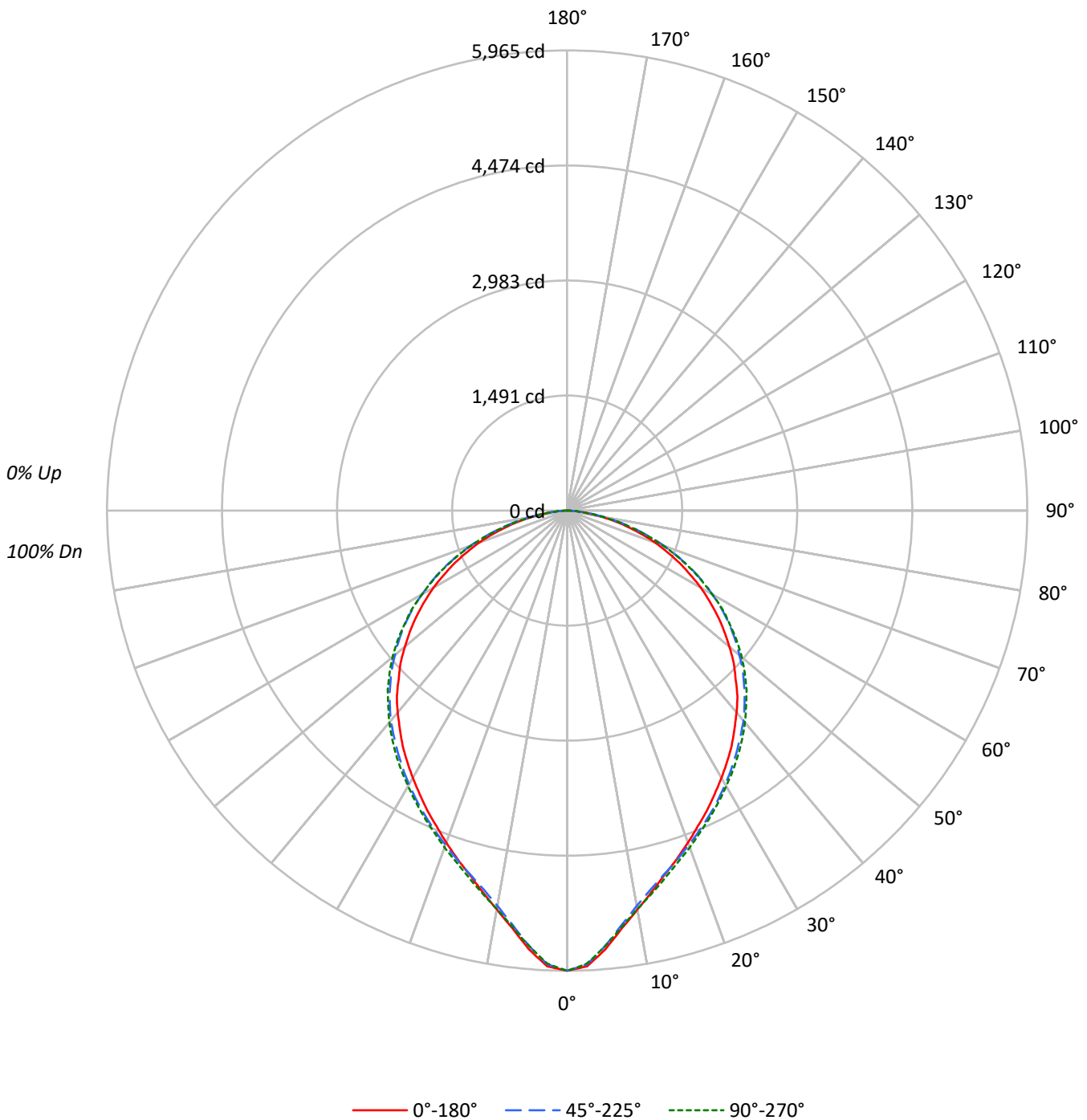
Lumens per Lamp: N/A
Luminaire Lumens: 13854.6 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	8025	8025	8025
5°	7706	7651	7651
10°	7172	7107	7161
15°	6805	6793	6859
20°	6556	6603	6654
25°	6368	6472	6510
30°	6215	6368	6407
35°	6108	6287	6350
40°	6000	6243	6296
45°	5876	6182	6256
50°	5746	6105	6186
55°	5587	6017	6042
60°	5386	5852	5839
65°	5105	5628	5590
70°	4766	5247	5183
75°	4207	4649	4602
80°	3418	3788	3602
85°	2370	2416	2323



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	527.1	3.8
10°-20°	1380.5	10.0
20°-30°	2007.5	14.5
30°-40°	2388.9	17.2
40°-50°	2480.6	17.9
50°-60°	2247.2	16.2
60°-70°	1695.8	12.2
70°-80°	923.9	6.7
80°-90°	203.0	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
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0°-30°	3915.1	28.3
0°-40°	6304.1	45.5
0°-60°	11031.9	79.6
0°-90°	13854.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13854.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5965	5965	5965	5965	5965	
5°	5705	5692	5665	5662	5665	529
15°	4886	4874	4877	4909	4924	1379
25°	4289	4325	4360	4395	4385	1977
35°	3719	3763	3827	3886	3866	2325
45°	3088	3143	3249	3285	3288	2387
55°	2382	2438	2565	2583	2576	2126
65°	1604	1650	1768	1765	1756	1585
75°	809	842	894	900	885	862
85°	154	155	156	155	150	194
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5964.6	5964.6	5964.6	5964.6	5964.6
2.5°	5912.4	5906.5	5887.1	5879.6	5878.1
5°	5705.3	5691.9	5665.0	5662.1	5665.0
7.5°	5457.9	5442.9	5416.2	5426.6	5440.0
10°	5249.2	5212.0	5201.5	5216.4	5241.7
12.5°	5062.9	5033.1	5024.1	5062.9	5080.8
15°	4885.5	4873.6	4876.6	4909.4	4924.3
17.5°	4732.1	4724.6	4744.0	4769.3	4776.8
20°	4578.5	4593.5	4611.3	4638.2	4647.1
22.5°	4428.0	4456.3	4486.2	4521.9	4510.0
25°	4289.4	4325.1	4359.5	4395.2	4384.8
27.5°	4141.8	4183.5	4231.3	4270.0	4255.1
30°	4000.2	4052.4	4098.6	4146.3	4124.0
32.5°	3860.2	3909.4	3964.5	4022.6	3997.3
35°	3718.6	3763.3	3827.4	3885.5	3866.2
37.5°	3562.1	3617.2	3690.2	3740.9	3727.6
40°	3416.0	3466.7	3554.6	3587.4	3584.4
42.5°	3268.4	3310.2	3402.6	3439.8	3433.9
45°	3088.2	3143.3	3249.1	3284.9	3287.8
47.5°	2928.7	2974.9	3088.2	3116.4	3122.4
50°	2745.3	2803.5	2916.8	2951.0	2955.5
52.5°	2564.9	2627.5	2743.8	2767.6	2772.2
55°	2381.6	2438.2	2564.9	2582.9	2575.5
57.5°	2189.4	2258.0	2374.3	2383.1	2390.6
60°	2001.6	2061.2	2174.5	2186.4	2170.0
62.5°	1797.5	1858.5	1974.8	1977.7	1964.3
65°	1603.6	1649.9	1767.6	1764.6	1755.7
67.5°	1400.9	1457.6	1544.1	1547.0	1539.6
70°	1211.6	1250.4	1333.9	1335.4	1317.6
72.5°	1007.6	1049.2	1116.3	1107.4	1103.0
75°	809.3	842.1	894.3	900.2	885.3
77.5°	627.5	651.3	690.1	685.6	669.2
80°	441.1	460.5	488.9	482.9	464.9
82.5°	281.6	293.7	311.5	304.1	296.6
85°	153.5	154.9	156.5	154.9	150.5
87.5°	56.6	58.2	58.2	56.6	52.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)