

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: P488829

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-3HI-50-120-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: P488829
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-12-4-INS-P12125-LD4-3HI-50-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

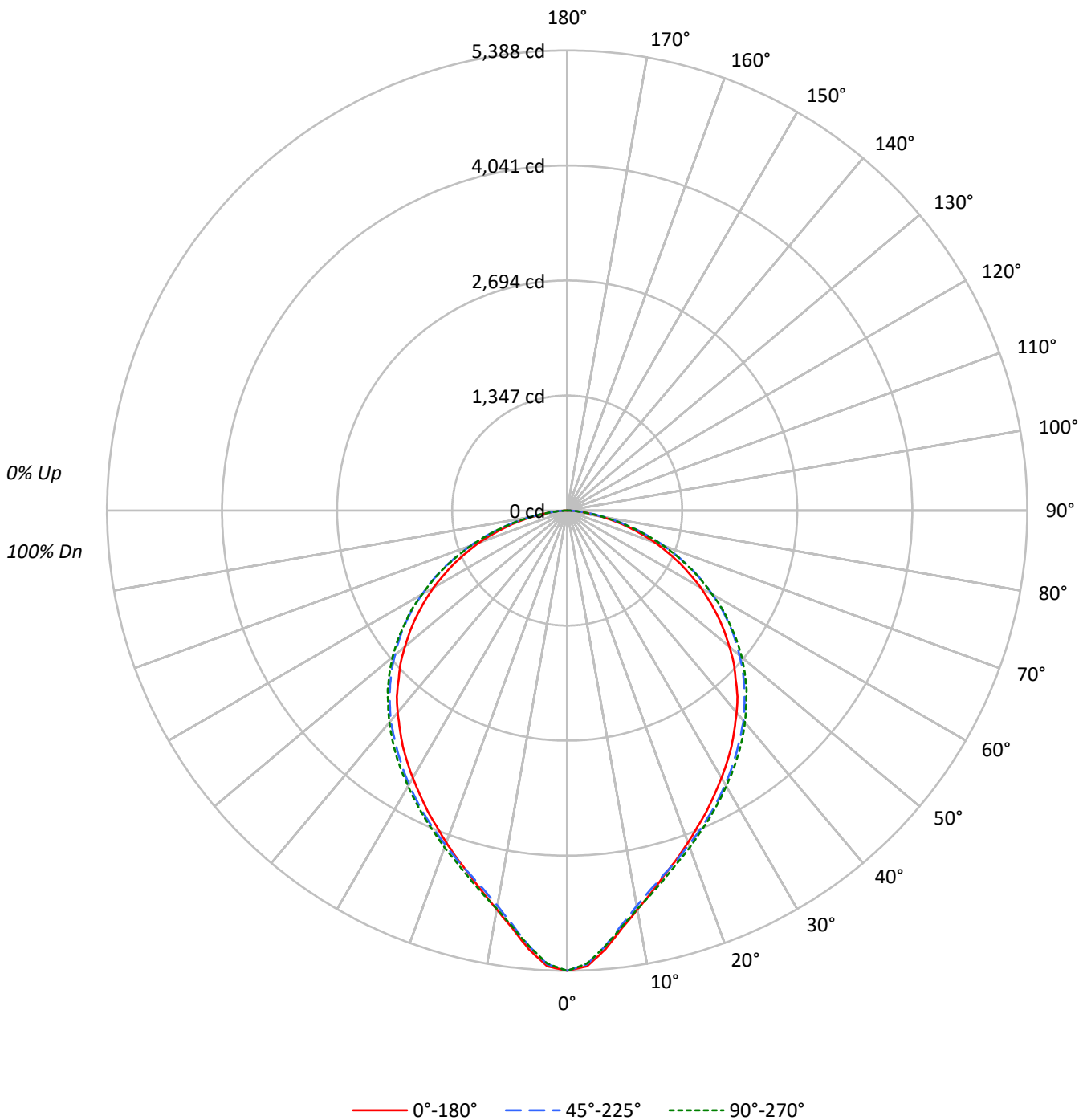
Lumens per Lamp: N/A
Luminaire Lumens: 12515.2 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	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°	14499	14499	14499
5°	13921	13823	13823
10°	12957	12839	12938
15°	12295	12272	12392
20°	11844	11929	12021
25°	11505	11693	11761
30°	11228	11504	11576
35°	11035	11358	11473
40°	10840	11280	11374
45°	10616	11169	11303
50°	10382	11030	11177
55°	10093	10870	10915
60°	9731	10572	10550
65°	9224	10167	10098
70°	8611	9480	9364
75°	7600	8399	8315
80°	6175	6843	6509
85°	4282	4363	4199



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	476.1	3.8
10°-20°	1247.1	10.0
20°-30°	1813.5	14.5
30°-40°	2158.0	17.2
40°-50°	2240.7	17.9
50°-60°	2030.0	16.2
60°-70°	1531.8	12.2
70°-80°	834.6	6.7
80°-90°	183.4	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°	3536.6	28.3
0°-40°	5694.6	45.5
0°-60°	9965.4	79.6
0°-90°	12515.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12515.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5388	5388	5388	5388	5388	
5°	5154	5142	5117	5115	5117	478
15°	4413	4402	4405	4435	4448	1246
25°	3875	3907	3938	3970	3961	1785
35°	3359	3400	3457	3510	3492	2100
45°	2790	2839	2935	2967	2970	2156
55°	2151	2202	2317	2333	2326	1921
65°	1449	1490	1597	1594	1586	1432
75°	731	761	808	813	800	779
85°	139	140	141	140	136	175
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5388.0	5388.0	5388.0	5388.0	5388.0
2.5°	5340.8	5335.5	5318.0	5311.2	5309.8
5°	5153.7	5141.6	5117.3	5114.7	5117.3
7.5°	4930.2	4916.7	4892.6	4902.0	4914.1
10°	4741.7	4708.1	4698.6	4712.1	4735.0
12.5°	4573.4	4546.5	4538.4	4573.4	4589.7
15°	4413.2	4402.4	4405.2	4434.8	4448.2
17.5°	4274.6	4267.8	4285.4	4308.2	4315.0
20°	4135.9	4149.4	4165.5	4189.8	4197.8
22.5°	3999.9	4025.5	4052.5	4084.7	4074.0
25°	3874.7	3907.0	3938.0	3970.3	3960.9
27.5°	3741.4	3779.1	3822.2	3857.2	3843.7
30°	3613.5	3660.6	3702.4	3745.4	3725.3
32.5°	3487.0	3531.4	3581.2	3633.7	3610.8
35°	3359.1	3399.5	3457.4	3509.9	3492.4
37.5°	3217.7	3267.5	3333.4	3379.2	3367.2
40°	3085.8	3131.6	3211.0	3240.6	3237.9
42.5°	2952.5	2990.2	3073.7	3107.3	3101.9
45°	2789.6	2839.4	2935.0	2967.3	2970.0
47.5°	2645.5	2687.3	2789.6	2815.1	2820.5
50°	2479.9	2532.5	2634.8	2665.7	2669.8
52.5°	2317.0	2373.5	2478.6	2500.1	2504.2
55°	2151.4	2202.5	2317.0	2333.2	2326.5
57.5°	1977.8	2039.7	2144.7	2152.7	2159.5
60°	1808.1	1862.0	1964.3	1975.0	1960.3
62.5°	1623.7	1678.8	1783.9	1786.5	1774.4
65°	1448.6	1490.4	1596.7	1594.0	1585.9
67.5°	1265.5	1316.6	1394.8	1397.4	1390.8
70°	1094.5	1129.5	1204.9	1206.3	1190.2
72.5°	910.1	947.8	1008.3	1000.3	996.3
75°	731.0	760.7	807.8	813.2	799.7
77.5°	566.8	588.3	623.4	619.4	604.5
80°	398.5	416.0	441.6	436.2	420.0
82.5°	254.4	265.3	281.4	274.7	267.9
85°	138.7	140.0	141.3	140.0	136.0
87.5°	51.2	52.5	52.5	51.2	47.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)