

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: P489910

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-5LO-20-120-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: P489910
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-20-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

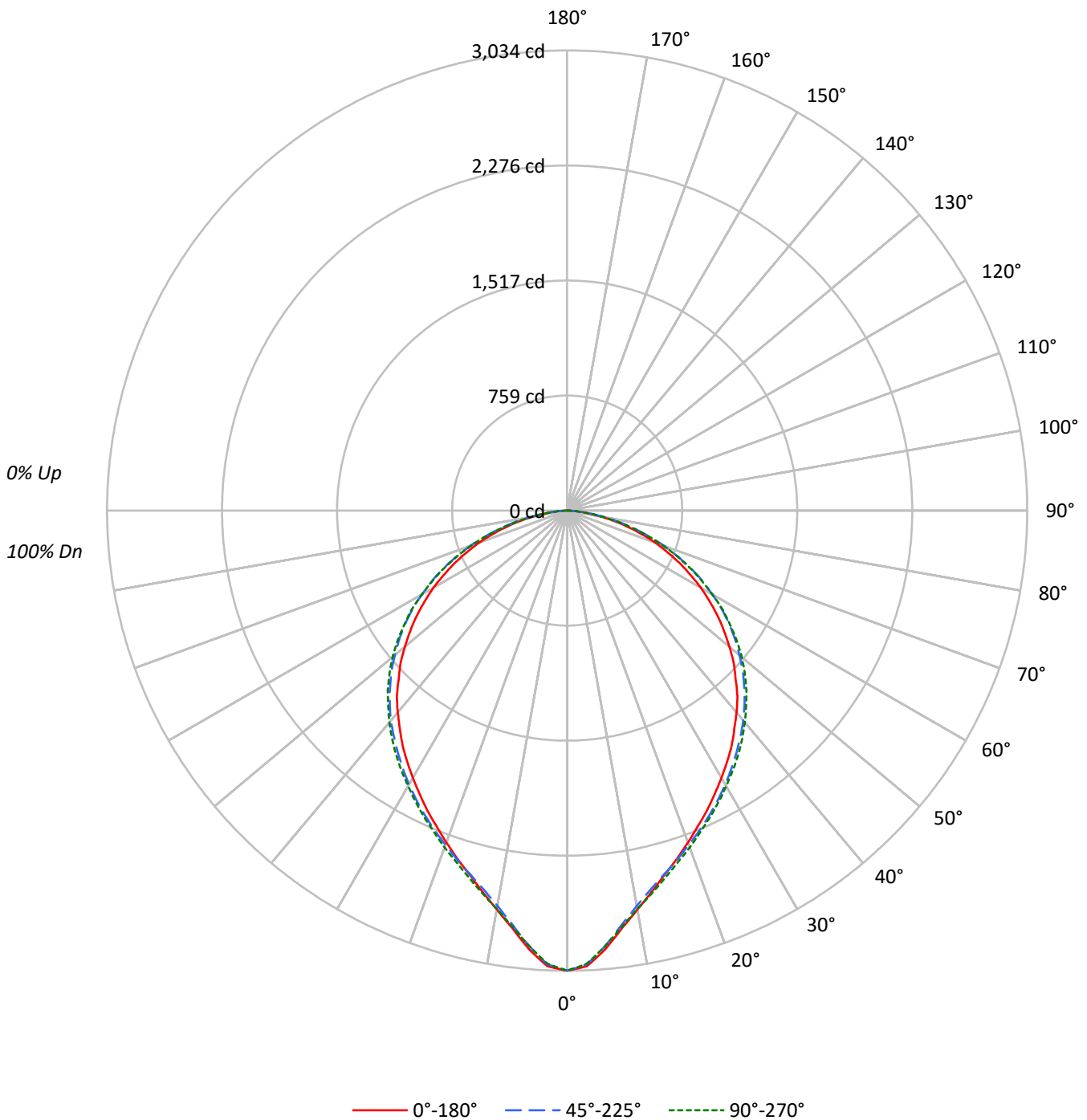
Lumens per Lamp: N/A
Luminaire Lumens: 7046.2 lumens
Efficiency: N/A
Efficacy: 60.2 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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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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°	4082	4082	4082
5°	3919	3891	3891
10°	3647	3614	3642
15°	3461	3455	3489
20°	3334	3358	3384
25°	3239	3292	3311
30°	3161	3239	3259
35°	3106	3197	3230
40°	3051	3175	3202
45°	2989	3144	3182
50°	2923	3105	3146
55°	2841	3060	3073
60°	2739	2976	2970
65°	2597	2862	2843
70°	2424	2669	2636
75°	2140	2364	2340
80°	1739	1926	1832
85°	1206	1229	1181



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.1	3.8
10°-20°	702.1	10.0
20°-30°	1021.0	14.5
30°-40°	1215.0	17.2
40°-50°	1261.6	17.9
50°-60°	1142.9	16.2
60°-70°	862.4	12.2
70°-80°	469.9	6.7
80°-90°	103.3	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°	1991.2	28.3
0°-40°	3206.1	45.5
0°-60°	5610.6	79.6
0°-90°	7046.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7046.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3034	3034	3034	3034	3034	
5°	2902	2895	2881	2880	2881	269
15°	2485	2479	2480	2497	2504	701
25°	2182	2200	2217	2235	2230	1005
35°	1891	1914	1946	1976	1966	1182
45°	1571	1599	1652	1671	1672	1214
55°	1211	1240	1304	1314	1310	1081
65°	816	839	899	898	893	806
75°	412	428	455	458	450	438
85°	78	79	80	79	76	99
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3033.5	3033.5	3033.5	3033.5	3033.5
2.5°	3007.0	3003.9	2994.1	2990.3	2989.5
5°	2901.6	2894.8	2881.1	2879.6	2881.1
7.5°	2775.8	2768.2	2754.6	2759.9	2766.7
10°	2669.7	2650.7	2645.4	2653.0	2665.9
12.5°	2574.9	2559.7	2555.2	2574.9	2584.0
15°	2484.7	2478.6	2480.2	2496.9	2504.4
17.5°	2406.6	2402.8	2412.7	2425.6	2429.4
20°	2328.6	2336.2	2345.2	2358.9	2363.4
22.5°	2252.0	2266.4	2281.6	2299.8	2293.7
25°	2181.5	2199.7	2217.2	2235.3	2230.0
27.5°	2106.5	2127.7	2151.9	2171.7	2164.1
30°	2034.4	2061.0	2084.5	2108.7	2097.4
32.5°	1963.2	1988.2	2016.3	2045.8	2032.9
35°	1891.2	1913.9	1946.5	1976.1	1966.3
37.5°	1811.6	1839.6	1876.8	1902.5	1895.8
40°	1737.3	1763.1	1807.8	1824.5	1823.0
42.5°	1662.3	1683.5	1730.5	1749.4	1746.4
45°	1570.6	1598.6	1652.4	1670.6	1672.1
47.5°	1489.5	1513.0	1570.6	1585.0	1588.0
50°	1396.2	1425.8	1483.4	1500.8	1503.1
52.5°	1304.5	1336.3	1395.5	1407.6	1409.9
55°	1211.2	1240.0	1304.5	1313.6	1309.8
57.5°	1113.5	1148.4	1207.5	1212.0	1215.8
60°	1018.0	1048.3	1105.9	1112.0	1103.6
62.5°	914.2	945.2	1004.4	1005.8	999.0
65°	815.6	839.1	898.9	897.5	892.9
67.5°	712.5	741.3	785.3	786.8	783.0
70°	616.2	635.9	678.4	679.2	670.1
72.5°	512.4	533.6	567.7	563.2	560.9
75°	411.6	428.3	454.8	457.9	450.2
77.5°	319.1	331.2	351.0	348.7	340.3
80°	224.4	234.2	248.6	245.6	236.5
82.5°	143.2	149.4	158.4	154.6	150.8
85°	78.1	78.8	79.6	78.8	76.5
87.5°	28.8	29.6	29.6	28.8	26.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)