

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: P488841

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-3LO-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: P488841
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-LD4-3LO-50-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

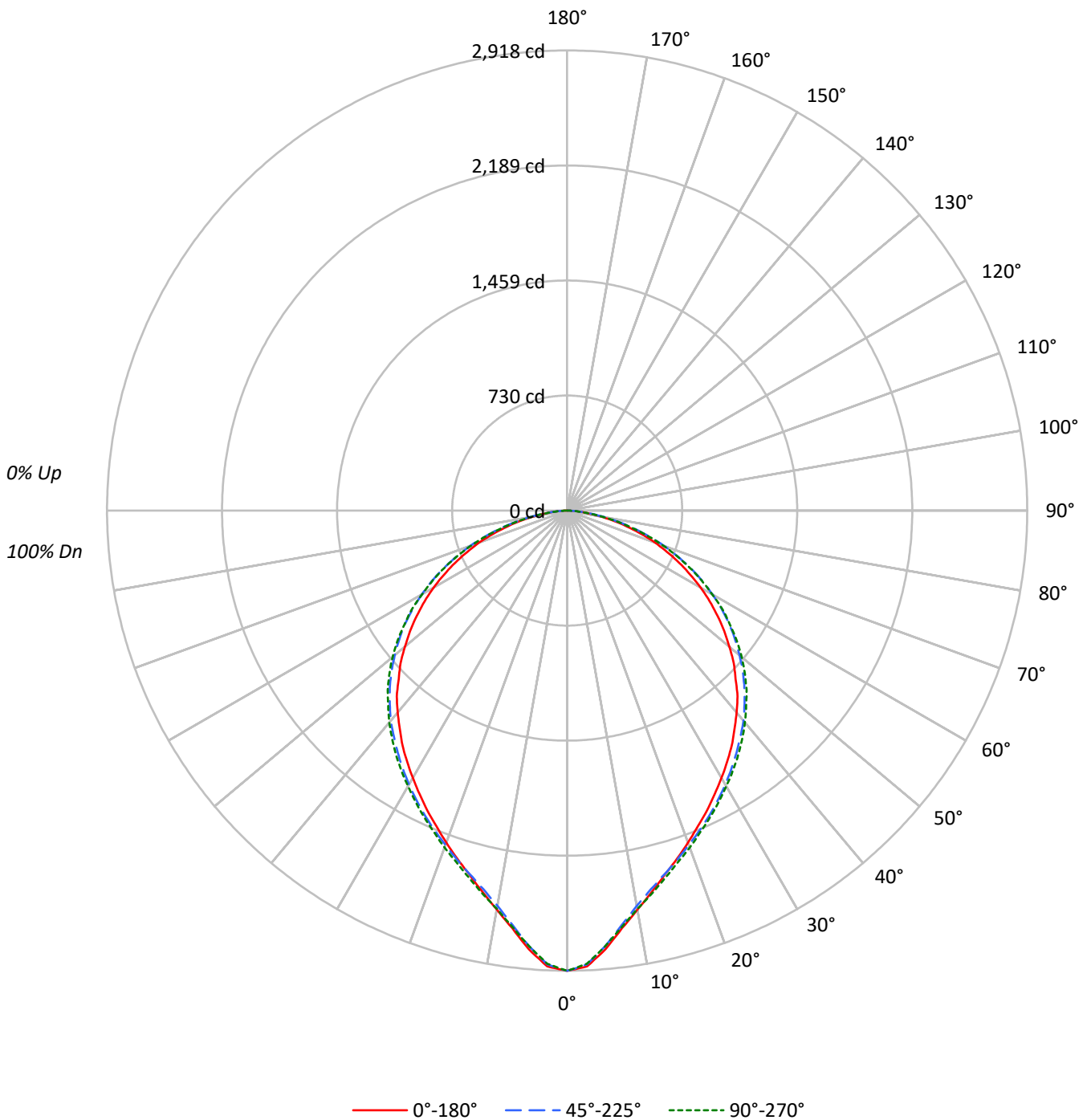
Lumens per Lamp: N/A
Luminaire Lumens: 6779.1 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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°	7854	7854	7854
5°	7541	7488	7488
10°	7018	6954	7008
15°	6660	6647	6713
20°	6416	6461	6511
25°	6232	6334	6370
30°	6082	6232	6270
35°	5977	6152	6214
40°	5872	6110	6161
45°	5750	6050	6122
50°	5624	5975	6054
55°	5467	5888	5912
60°	5271	5726	5715
65°	4996	5507	5470
70°	4665	5135	5072
75°	4117	4550	4504
80°	3344	3707	3526
85°	2319	2365	2272



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.9	3.8
10°-20°	675.5	10.0
20°-30°	982.3	14.5
30°-40°	1168.9	17.2
40°-50°	1213.7	17.9
50°-60°	1099.6	16.2
60°-70°	829.7	12.2
70°-80°	452.1	6.7
80°-90°	99.3	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°	1915.7	28.3
0°-40°	3084.6	45.5
0°-60°	5397.9	79.6
0°-90°	6779.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6779.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2918	2918	2918	2918	2918	
5°	2792	2785	2772	2770	2772	259
15°	2390	2385	2386	2402	2410	675
25°	2099	2116	2133	2151	2146	967
35°	1820	1841	1873	1901	1892	1138
45°	1511	1538	1590	1607	1609	1168
55°	1165	1193	1255	1264	1260	1040
65°	785	807	865	863	859	776
75°	396	412	438	440	433	422
85°	75	76	77	76	74	95
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2918.5	2918.5	2918.5	2918.5	2918.5
2.5°	2893.0	2890.1	2880.6	2876.9	2876.2
5°	2791.6	2785.0	2771.9	2770.5	2771.9
7.5°	2670.6	2663.2	2650.2	2655.2	2661.8
10°	2568.5	2550.2	2545.1	2552.4	2564.8
12.5°	2477.3	2462.7	2458.3	2477.3	2486.1
15°	2390.5	2384.7	2386.1	2402.2	2409.5
17.5°	2315.4	2311.8	2321.2	2333.6	2337.3
20°	2240.3	2247.6	2256.3	2269.5	2273.8
22.5°	2166.6	2180.5	2195.1	2212.6	2206.8
25°	2098.8	2116.3	2133.1	2150.6	2145.5
27.5°	2026.6	2047.0	2070.4	2089.3	2082.0
30°	1957.3	1982.8	2005.5	2028.8	2017.9
32.5°	1888.8	1912.9	1939.8	1968.3	1955.9
35°	1819.5	1841.4	1872.8	1901.2	1891.7
37.5°	1742.9	1769.9	1805.6	1830.4	1823.9
40°	1671.5	1696.3	1739.3	1755.3	1753.9
42.5°	1599.3	1619.7	1664.9	1683.1	1680.2
45°	1511.0	1538.0	1589.8	1607.3	1608.7
47.5°	1433.0	1455.6	1511.0	1524.9	1527.8
50°	1343.3	1371.8	1427.2	1443.9	1446.1
52.5°	1255.0	1285.7	1342.6	1354.2	1356.4
55°	1165.3	1193.0	1255.0	1263.8	1260.2
57.5°	1071.3	1104.8	1161.7	1166.1	1169.7
60°	979.4	1008.6	1064.0	1069.8	1061.8
62.5°	879.5	909.4	966.3	967.7	961.1
65°	784.7	807.3	864.9	863.4	859.0
67.5°	685.5	713.2	755.5	756.9	753.4
70°	592.9	611.8	652.7	653.4	644.7
72.5°	493.0	513.4	546.2	541.8	539.7
75°	396.0	412.0	437.6	440.5	433.2
77.5°	307.0	318.7	337.7	335.5	327.4
80°	215.8	225.3	239.2	236.3	227.5
82.5°	137.8	143.7	152.4	148.8	145.1
85°	75.1	75.8	76.6	75.8	73.6
87.5°	27.7	28.5	28.5	27.7	25.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)