

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: P488811

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-2STD-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: P488811
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-LD4-2STD-30-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

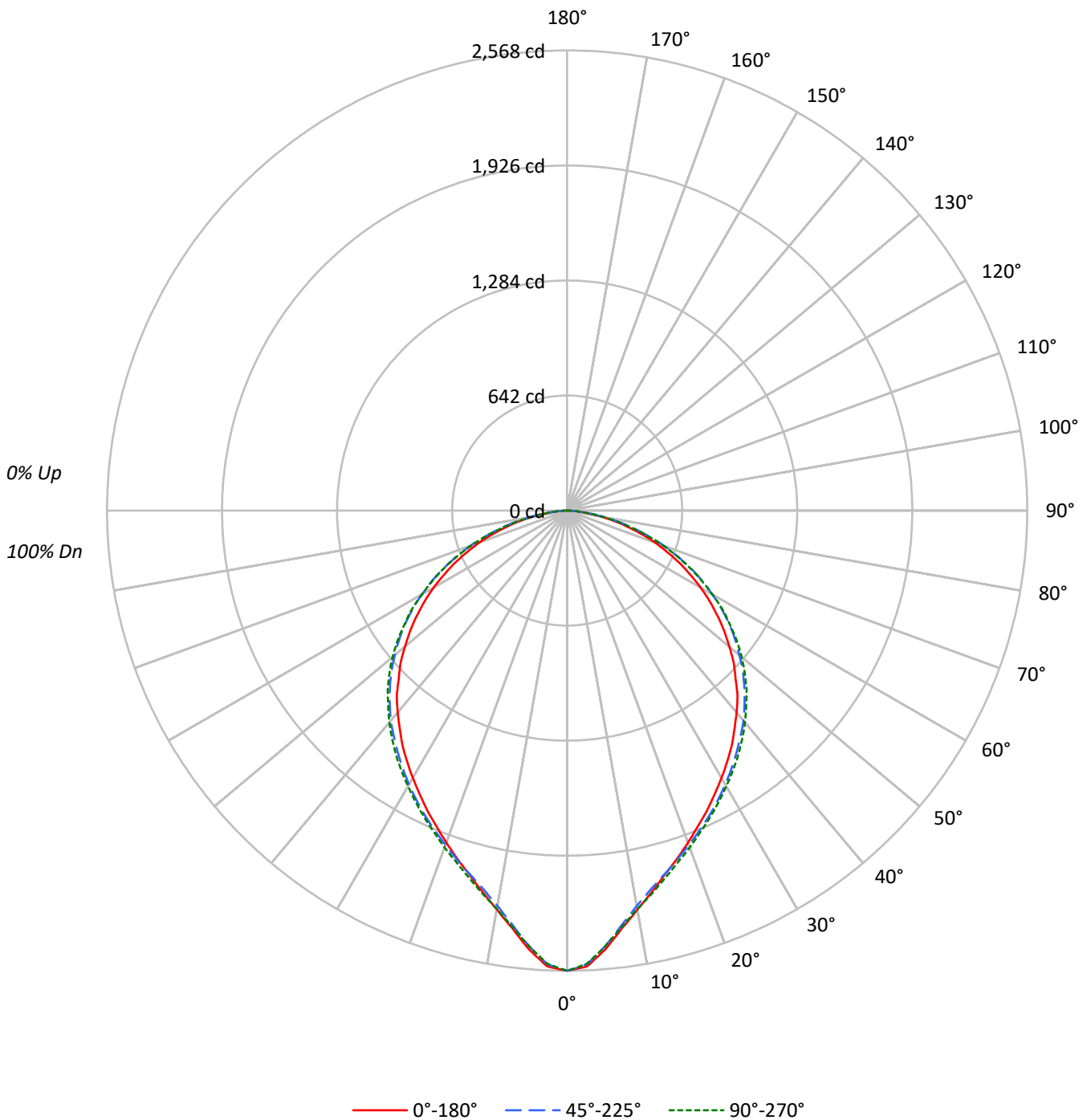
Lumens per Lamp: N/A
Luminaire Lumens: 5965.7 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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°	6911	6911	6911
5°	6636	6589	6589
10°	6176	6120	6168
15°	5861	5850	5907
20°	5646	5686	5730
25°	5484	5574	5606
30°	5352	5484	5518
35°	5260	5414	5469
40°	5167	5377	5422
45°	5060	5324	5388
50°	4949	5258	5328
55°	4811	5181	5203
60°	4639	5039	5029
65°	4397	4846	4814
70°	4105	4519	4463
75°	3623	4004	3963
80°	2943	3262	3102
85°	2041	2081	2001



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.9	3.8
10°-20°	594.4	10.0
20°-30°	864.4	14.5
30°-40°	1028.7	17.2
40°-50°	1068.1	17.9
50°-60°	967.6	16.2
60°-70°	730.2	12.2
70°-80°	397.8	6.7
80°-90°	87.4	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°	1685.8	28.3
0°-40°	2714.5	45.5
0°-60°	4750.2	79.6
0°-90°	5965.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5965.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2568	2568	2568	2568	2568	
5°	2457	2451	2439	2438	2439	228
15°	2104	2098	2100	2114	2120	594
25°	1847	1862	1877	1892	1888	851
35°	1601	1620	1648	1673	1665	1001
45°	1330	1354	1399	1414	1416	1028
55°	1026	1050	1104	1112	1109	916
65°	690	710	761	760	756	683
75°	348	363	385	388	381	371
85°	66	67	67	67	65	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2568.3	2568.3	2568.3	2568.3	2568.3
2.5°	2545.9	2543.3	2534.9	2531.7	2531.1
5°	2456.7	2450.9	2439.3	2438.1	2439.3
7.5°	2350.1	2343.7	2332.2	2336.6	2342.4
10°	2260.3	2244.2	2239.7	2246.1	2257.1
12.5°	2180.0	2167.2	2163.3	2180.0	2187.8
15°	2103.7	2098.5	2099.8	2114.0	2120.4
17.5°	2037.6	2034.4	2042.7	2053.6	2056.9
20°	1971.5	1977.9	1985.6	1997.2	2001.0
22.5°	1906.7	1918.8	1931.7	1947.1	1942.0
25°	1847.0	1862.4	1877.2	1892.5	1888.1
27.5°	1783.4	1801.4	1822.0	1838.7	1832.2
30°	1722.5	1744.9	1764.8	1785.4	1775.8
32.5°	1662.2	1683.3	1707.1	1732.1	1721.2
35°	1601.2	1620.4	1648.0	1673.1	1664.7
37.5°	1533.8	1557.5	1589.0	1610.8	1605.1
40°	1470.9	1492.7	1530.6	1544.7	1543.4
42.5°	1407.4	1425.4	1465.1	1481.2	1478.6
45°	1329.7	1353.5	1399.0	1414.5	1415.7
47.5°	1261.1	1281.0	1329.7	1341.9	1344.5
50°	1182.1	1207.2	1255.9	1270.7	1272.6
52.5°	1104.4	1131.4	1181.5	1191.7	1193.7
55°	1025.5	1049.9	1104.4	1112.2	1109.0
57.5°	942.8	972.3	1022.3	1026.2	1029.4
60°	861.9	887.5	936.3	941.4	934.4
62.5°	774.0	800.3	850.3	851.6	845.8
65°	690.5	710.4	761.1	759.8	756.0
67.5°	603.2	627.6	664.9	666.1	663.0
70°	521.7	538.4	574.4	575.0	567.3
72.5°	433.8	451.8	480.7	476.8	474.9
75°	348.5	362.6	385.1	387.6	381.2
77.5°	270.2	280.4	297.1	295.2	288.1
80°	189.9	198.3	210.5	207.9	200.2
82.5°	121.3	126.4	134.1	130.9	127.7
85°	66.1	66.7	67.4	66.7	64.8
87.5°	24.4	25.0	25.0	24.4	22.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)