

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: P488622

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-3LO-40-120-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: P488622
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-115-8)
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-A12125-LD4-3LO-40-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

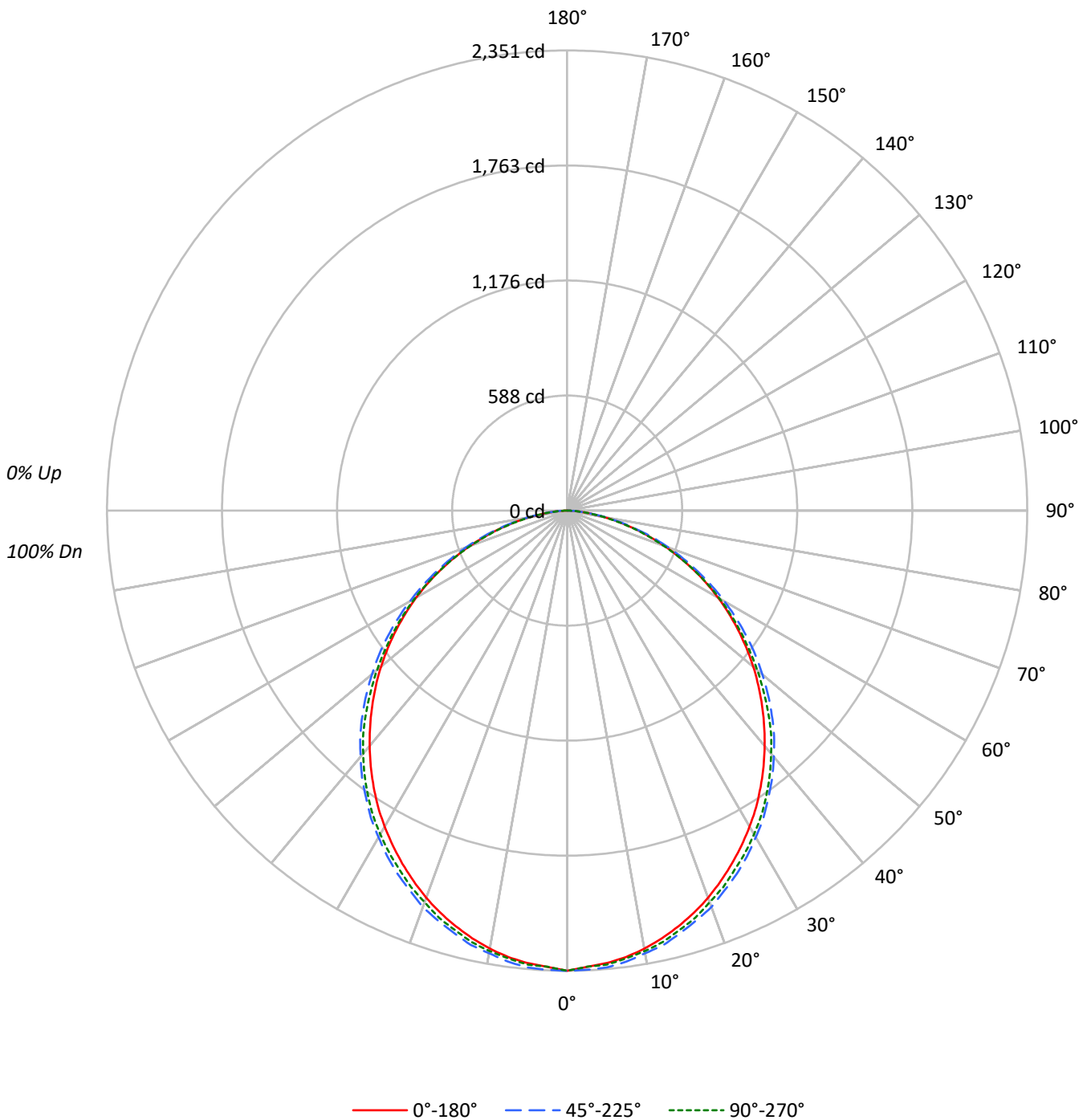
Lumens per Lamp: N/A
Luminaire Lumens: 6181.7 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	105	100	97	106	102	98	95	98	95	92		94	92	89		91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76		83	78	75		80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64		73	68	63		71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55		65	59	54		63	58	54	51
5	77	64	55	48	75	63	54	48	61	53	48		59	52	47		57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42		53	47	41		52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37		49	42	37		47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33		45	38	33		43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30		41	35	30		40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27		38	32	27		37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6327	6327	6327
5°	6269	6328	6289
10°	6211	6274	6244
15°	6125	6224	6181
20°	6029	6172	6098
25°	5911	6083	6013
30°	5792	5988	5934
35°	5662	5886	5831
40°	5514	5768	5695
45°	5360	5630	5524
50°	5199	5450	5308
55°	5010	5244	5083
60°	4796	4996	4842
65°	4520	4693	4523
70°	4160	4327	4113
75°	3663	3828	3607
80°	2977	3106	2943
85°	2072	2208	2155



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.4	3.6
10°-20°	627.5	10.2
20°-30°	935.9	15.1
30°-40°	1109.1	17.9
40°-50°	1122.2	18.2
50°-60°	980.1	15.9
60°-70°	716.2	11.6
70°-80°	381.1	6.2
80°-90°	88.1	1.4
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°	1784.9	28.9
0°-40°	2894.0	46.8
0°-60°	4996.3	80.8
0°-90°	6181.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6181.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2351	2351	2351	2351	2351	
5°	2321	2325	2342	2348	2328	220
15°	2199	2213	2234	2248	2218	620
25°	1991	2015	2049	2056	2025	917
35°	1723	1750	1792	1804	1775	1078
45°	1408	1433	1479	1481	1452	1087
55°	1068	1089	1118	1102	1084	955
65°	710	724	737	722	710	703
75°	352	360	368	355	347	375
85°	67	68	72	72	70	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2351.3	2351.3	2351.3	2351.3	2351.3
2.5°	2332.9	2340.5	2348.4	2351.8	2332.7
5°	2320.7	2325.1	2342.5	2347.9	2328.0
7.5°	2300.6	2307.2	2324.1	2326.6	2307.4
10°	2273.2	2284.9	2296.2	2308.4	2285.2
12.5°	2238.1	2254.0	2273.2	2275.4	2257.7
15°	2198.7	2213.4	2234.2	2247.7	2218.5
17.5°	2154.6	2168.8	2195.7	2198.2	2180.5
20°	2105.3	2123.0	2155.3	2161.0	2129.3
22.5°	2049.5	2073.2	2100.2	2105.6	2082.3
25°	1990.9	2015.4	2048.8	2056.3	2025.2
27.5°	1929.7	1953.2	1990.7	1996.1	1969.9
30°	1864.0	1886.1	1927.2	1936.3	1909.6
32.5°	1797.4	1819.5	1865.0	1872.6	1846.6
35°	1723.4	1750.4	1791.8	1804.3	1775.1
37.5°	1648.0	1674.2	1721.2	1732.5	1701.1
40°	1569.8	1595.8	1642.1	1651.4	1621.3
42.5°	1490.0	1515.9	1565.4	1566.9	1541.9
45°	1408.4	1433.4	1479.4	1480.6	1451.5
47.5°	1325.6	1350.8	1392.0	1387.3	1359.9
50°	1241.8	1265.8	1301.8	1292.5	1267.8
52.5°	1155.1	1178.3	1212.4	1197.2	1173.9
55°	1067.9	1089.4	1117.8	1101.7	1083.5
57.5°	979.9	1001.7	1023.5	1007.1	991.4
60°	891.2	910.3	928.2	911.6	899.6
62.5°	801.1	817.5	832.9	817.0	805.7
65°	709.9	724.4	737.1	722.4	710.4
67.5°	619.3	631.6	643.3	628.1	615.6
70°	528.7	539.2	550.0	534.3	522.8
72.5°	439.2	448.6	458.1	442.9	432.9
75°	352.3	360.4	368.2	354.7	346.9
77.5°	269.2	276.1	281.5	272.9	265.3
80°	192.1	197.2	200.4	197.0	189.9
82.5°	123.5	127.1	128.9	128.6	124.0
85°	67.1	68.3	71.5	72.3	69.8
87.5°	26.0	27.7	28.4	30.6	28.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)