

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: P490238

Luminaire Tested: **CLP-12-4-INS-A12125-LD4-3LO-30-120-EDD-90**

Issue Date: 3/12/2021

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: P490238  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-115-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/12/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: CLP-12-4-INS-A12125-LD4-3LO-30-120-EDD-90  
Description: 1X4 CLP LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

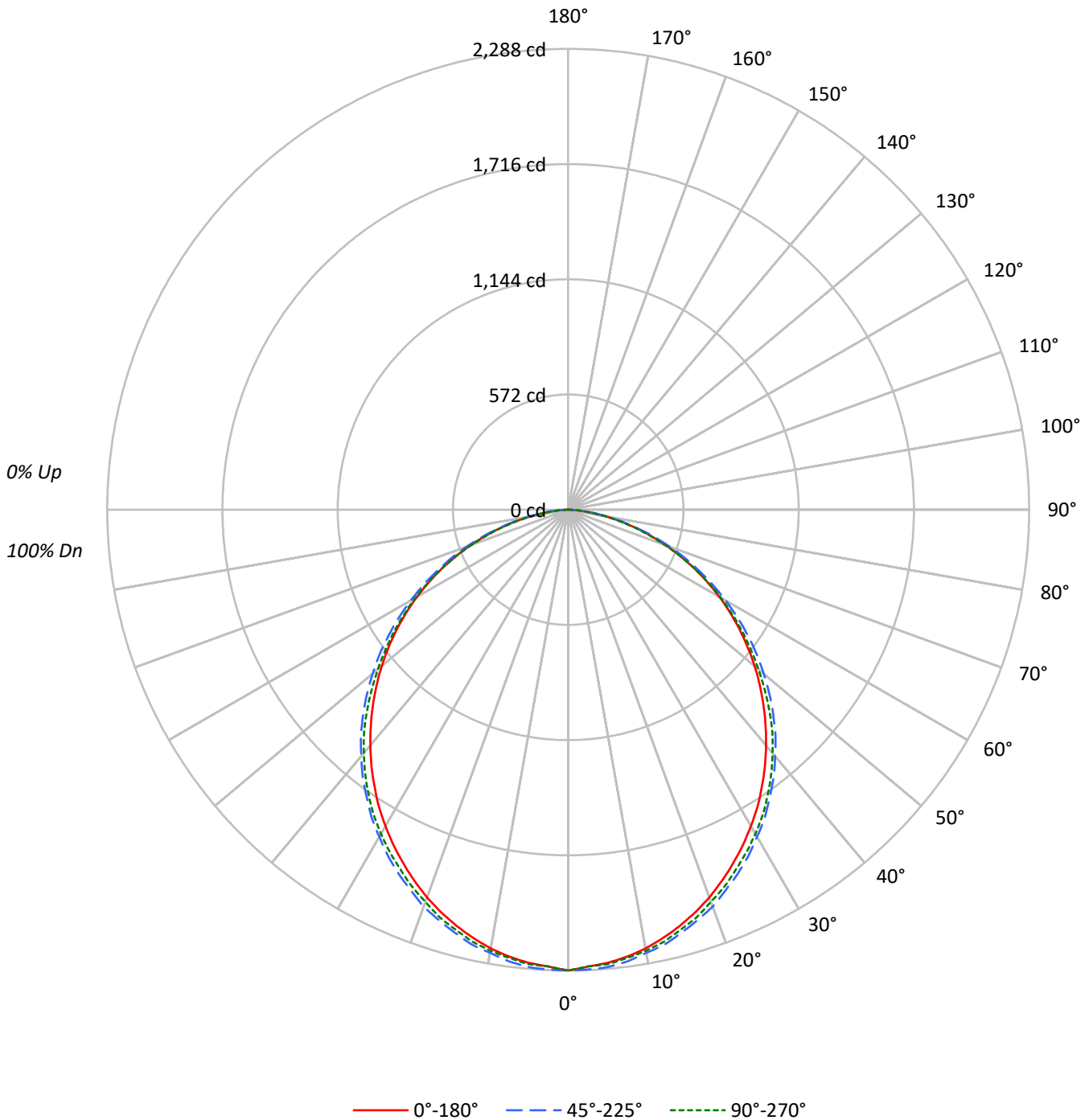
Lumens per Lamp: N/A  
Luminaire Lumens: 6014.8 lumens  
Efficiency: N/A  
Efficacy: 85.7 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

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°	6156	6156	6156
5°	6099	6157	6119
10°	6044	6105	6076
15°	5960	6056	6014
20°	5866	6005	5933
25°	5752	5919	5851
30°	5636	5827	5773
35°	5509	5727	5674
40°	5365	5613	5541
45°	5215	5478	5375
50°	5058	5303	5164
55°	4875	5103	4946
60°	4667	4861	4711
65°	4399	4567	4402
70°	4047	4210	4002
75°	3564	3725	3509
80°	2896	3022	2862
85°	2016	2149	2096



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	215.5	3.6
10°-20°	610.6	10.2
20°-30°	910.7	15.1
30°-40°	1079.1	17.9
40°-50°	1091.9	18.2
50°-60°	953.6	15.9
60°-70°	696.9	11.6
70°-80°	370.8	6.2
80°-90°	85.7	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°	1736.7	28.9
0°-40°	2815.9	46.8
0°-60°	4861.4	80.8
0°-90°	6014.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6014.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2288	2288	2288	2288	2288	
5°	2258	2262	2279	2284	2265	214
15°	2139	2154	2174	2187	2159	603
25°	1937	1961	1993	2001	1971	892
35°	1677	1703	1743	1756	1727	1049
45°	1370	1395	1440	1441	1412	1057
55°	1039	1060	1088	1072	1054	929
65°	691	705	717	703	691	684
75°	343	351	358	345	338	364
85°	65	66	70	70	68	83
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2287.8	2287.8	2287.8	2287.8	2287.8
2.5°	2269.9	2277.3	2285.0	2288.3	2269.7
5°	2258.0	2262.3	2279.2	2284.5	2265.2
7.5°	2238.5	2244.9	2261.4	2263.7	2245.1
10°	2211.8	2223.2	2234.2	2246.1	2223.5
12.5°	2177.7	2193.2	2211.8	2213.9	2196.8
15°	2139.3	2153.6	2173.9	2187.0	2158.6
17.5°	2096.4	2110.2	2136.5	2138.8	2121.7
20°	2048.5	2065.7	2097.1	2102.6	2071.9
22.5°	1994.2	2017.3	2043.5	2048.7	2026.1
25°	1937.2	1961.0	1993.4	2000.8	1970.6
27.5°	1877.6	1900.5	1936.9	1942.2	1916.7
30°	1813.7	1835.2	1875.2	1884.0	1858.0
32.5°	1748.9	1770.3	1814.7	1822.1	1796.8
35°	1676.9	1703.1	1743.4	1755.5	1727.2
37.5°	1603.5	1629.0	1674.7	1685.7	1655.2
40°	1527.4	1552.7	1597.8	1606.8	1577.5
42.5°	1449.7	1475.0	1523.1	1524.6	1500.3
45°	1370.4	1394.7	1439.5	1440.7	1412.3
47.5°	1289.8	1314.3	1354.4	1349.9	1323.2
50°	1208.3	1231.6	1266.7	1257.6	1233.5
52.5°	1123.9	1146.5	1179.7	1164.9	1142.2
55°	1039.0	1060.0	1087.7	1071.9	1054.3
57.5°	953.5	974.7	995.9	979.9	964.7
60°	867.2	885.8	903.2	887.0	875.3
62.5°	779.4	795.4	810.4	794.9	784.0
65°	690.8	704.8	717.2	702.9	691.3
67.5°	602.6	614.5	625.9	611.2	599.0
70°	514.4	524.6	535.1	519.9	508.7
72.5°	427.4	436.4	445.7	431.0	421.2
75°	342.8	350.6	358.3	345.2	337.5
77.5°	262.0	268.6	273.9	265.5	258.1
80°	186.9	191.9	195.0	191.6	184.7
82.5°	120.1	123.7	125.4	125.1	120.6
85°	65.3	66.5	69.6	70.3	67.9
87.5°	25.3	26.9	27.7	29.8	27.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)