

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: P488596

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-2STD-35-120-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: P488596
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-LD4-2STD-35-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

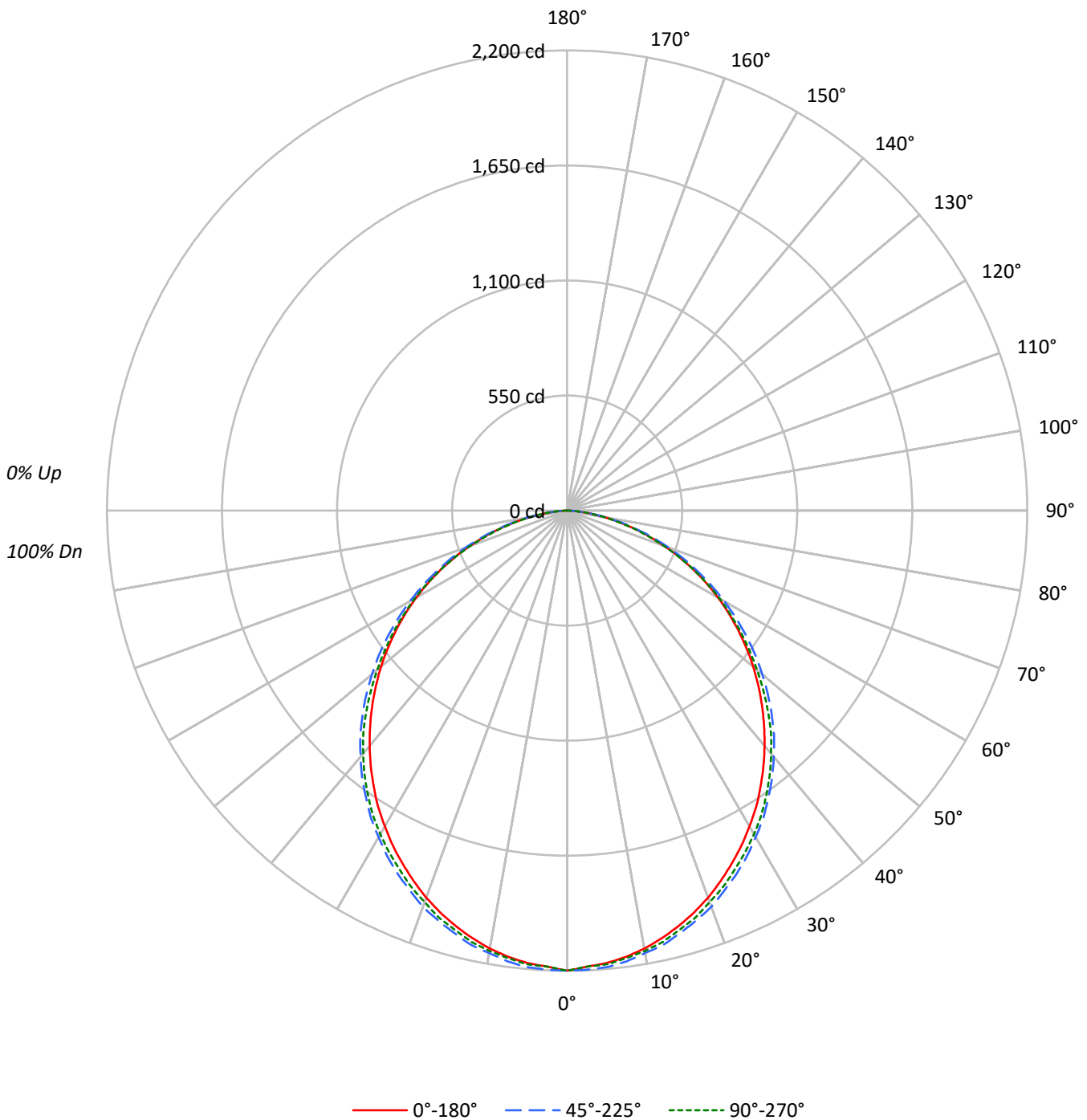
Lumens per Lamp: N/A
Luminaire Lumens: 5782.6 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	5919	5919	5919
5°	5864	5919	5883
10°	5810	5869	5841
15°	5730	5823	5782
20°	5640	5774	5704
25°	5530	5690	5625
30°	5418	5602	5551
35°	5296	5506	5455
40°	5159	5396	5328
45°	5014	5267	5167
50°	4863	5098	4965
55°	4686	4906	4755
60°	4487	4673	4529
65°	4229	4390	4232
70°	3891	4048	3847
75°	3426	3581	3374
80°	2785	2906	2752
85°	1939	2066	2016



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.1	3.6
10°-20°	587.0	10.2
20°-30°	875.5	15.1
30°-40°	1037.5	17.9
40°-50°	1049.8	18.2
50°-60°	916.8	15.9
60°-70°	670.0	11.6
70°-80°	356.5	6.2
80°-90°	82.4	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°	1669.7	28.9
0°-40°	2707.2	46.8
0°-60°	4673.8	80.8
0°-90°	5782.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5782.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2200	2200	2200	2200	2200	
5°	2171	2175	2191	2196	2178	206
15°	2057	2070	2090	2103	2075	580
25°	1862	1885	1916	1924	1894	858
35°	1612	1637	1676	1688	1660	1008
45°	1318	1341	1384	1385	1358	1016
55°	999	1019	1046	1030	1014	893
65°	664	678	690	676	665	657
75°	330	337	344	332	324	350
85°	63	64	67	68	65	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2199.5	2199.5	2199.5	2199.5	2199.5
2.5°	2182.3	2189.4	2196.7	2200.0	2182.1
5°	2170.9	2175.0	2191.2	2196.3	2177.7
7.5°	2152.1	2158.2	2174.1	2176.3	2158.5
10°	2126.4	2137.4	2147.9	2159.4	2137.6
12.5°	2093.6	2108.5	2126.4	2128.5	2112.0
15°	2056.7	2070.5	2090.0	2102.6	2075.3
17.5°	2015.5	2028.8	2054.0	2056.3	2039.8
20°	1969.4	1985.9	2016.2	2021.4	1991.9
22.5°	1917.2	1939.4	1964.6	1969.6	1947.9
25°	1862.4	1885.3	1916.5	1923.6	1894.5
27.5°	1805.1	1827.1	1862.2	1867.2	1842.7
30°	1743.7	1764.3	1802.8	1811.3	1786.3
32.5°	1681.4	1702.0	1744.6	1751.7	1727.4
35°	1612.2	1637.4	1676.1	1687.8	1660.5
37.5°	1541.6	1566.1	1610.1	1620.6	1591.3
40°	1468.5	1492.8	1536.1	1544.8	1516.6
42.5°	1393.8	1418.1	1464.3	1465.7	1442.3
45°	1317.5	1340.8	1383.9	1385.1	1357.8
47.5°	1240.0	1263.6	1302.1	1297.7	1272.1
50°	1161.6	1184.1	1217.8	1209.1	1185.9
52.5°	1080.5	1102.3	1134.1	1119.9	1098.1
55°	998.9	1019.1	1045.7	1030.5	1013.6
57.5°	916.6	937.0	957.4	942.1	927.4
60°	833.7	851.6	868.3	852.7	841.5
62.5°	749.4	764.7	779.2	764.3	753.7
65°	664.1	677.6	689.5	675.8	664.6
67.5°	579.3	590.8	601.8	587.6	575.9
70°	494.5	504.4	514.5	499.8	489.0
72.5°	410.9	419.6	428.5	414.3	404.9
75°	329.5	337.1	344.4	331.8	324.5
77.5°	251.8	258.3	263.3	255.3	248.2
80°	179.7	184.5	187.5	184.2	177.6
82.5°	115.5	118.9	120.5	120.3	116.0
85°	62.8	63.9	66.9	67.6	65.3
87.5°	24.3	25.9	26.6	28.6	26.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)