

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: P488836

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-3LO-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: P488836
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-35-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

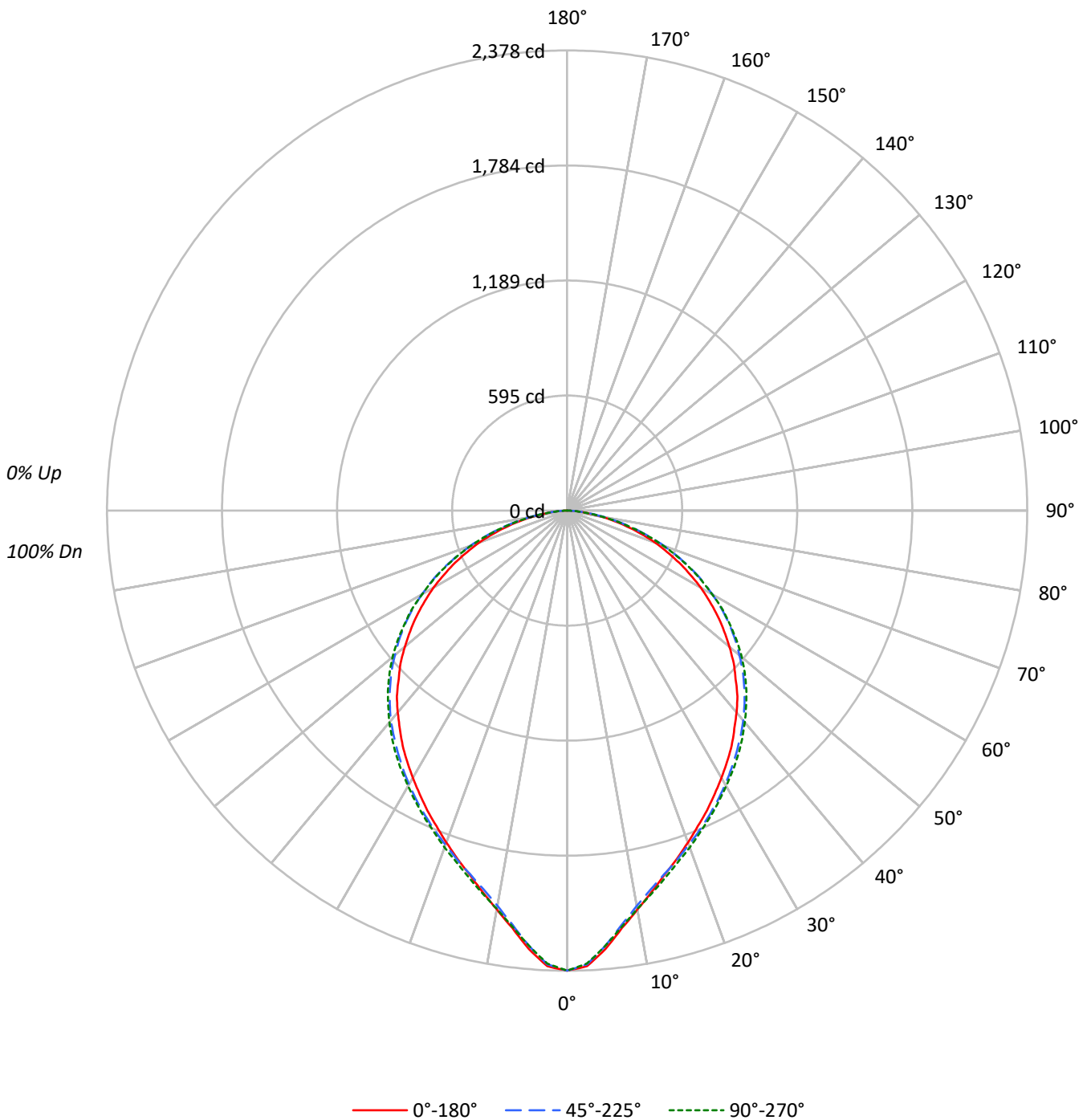
Lumens per Lamp: N/A
Luminaire Lumens: 5522.5 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	6398	6398	6398
5°	6143	6100	6100
10°	5717	5665	5709
15°	5425	5415	5468
20°	5226	5264	5304
25°	5077	5160	5190
30°	4955	5076	5108
35°	4869	5012	5063
40°	4783	4977	5019
45°	4685	4929	4987
50°	4581	4867	4932
55°	4454	4797	4816
60°	4294	4665	4655
65°	4070	4486	4456
70°	3800	4183	4132
75°	3354	3707	3669
80°	2724	3020	2872
85°	1890	1927	1853



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.1	3.8
10°-20°	550.3	10.0
20°-30°	800.2	14.5
30°-40°	952.2	17.2
40°-50°	988.8	17.9
50°-60°	895.8	16.2
60°-70°	675.9	12.2
70°-80°	368.3	6.7
80°-90°	80.9	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°	1560.6	28.3
0°-40°	2512.8	45.5
0°-60°	4397.3	79.6
0°-90°	5522.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5522.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2378	2378	2378	2378	2378	
5°	2274	2269	2258	2257	2258	211
15°	1947	1943	1944	1957	1963	550
25°	1710	1724	1738	1752	1748	788
35°	1482	1500	1526	1549	1541	927
45°	1231	1253	1295	1309	1310	952
55°	949	972	1022	1030	1027	848
65°	639	658	705	703	700	632
75°	323	336	356	359	353	344
85°	61	62	62	62	60	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2377.5	2377.5	2377.5	2377.5	2377.5
2.5°	2356.7	2354.3	2346.6	2343.6	2343.0
5°	2274.2	2268.8	2258.1	2256.9	2258.1
7.5°	2175.5	2169.6	2158.9	2163.1	2168.4
10°	2092.4	2077.5	2073.3	2079.3	2089.4
12.5°	2018.1	2006.2	2002.6	2018.1	2025.2
15°	1947.4	1942.6	1943.8	1956.9	1962.8
17.5°	1886.2	1883.2	1891.0	1901.1	1904.0
20°	1825.0	1831.0	1838.1	1848.8	1852.3
22.5°	1765.0	1776.3	1788.2	1802.4	1797.7
25°	1709.8	1724.0	1737.7	1751.9	1747.8
27.5°	1651.0	1667.6	1686.6	1702.1	1696.1
30°	1594.5	1615.3	1633.7	1652.7	1643.8
32.5°	1538.7	1558.3	1580.3	1603.4	1593.3
35°	1482.2	1500.1	1525.6	1548.8	1541.1
37.5°	1419.9	1441.8	1470.9	1491.1	1485.8
40°	1361.6	1381.8	1416.9	1430.0	1428.8
42.5°	1302.8	1319.5	1356.3	1371.1	1368.8
45°	1231.0	1252.9	1295.1	1309.4	1310.5
47.5°	1167.4	1185.8	1231.0	1242.2	1244.6
50°	1094.3	1117.5	1162.6	1176.3	1178.1
52.5°	1022.4	1047.3	1093.7	1103.2	1105.0
55°	949.3	971.9	1022.4	1029.6	1026.6
57.5°	872.7	900.0	946.4	949.9	952.9
60°	797.8	821.6	866.8	871.5	865.0
62.5°	716.5	740.8	787.2	788.3	783.0
65°	639.2	657.6	704.6	703.4	699.8
67.5°	558.4	581.0	615.5	616.6	613.7
70°	483.0	498.4	531.7	532.3	525.2
72.5°	401.6	418.2	444.9	441.4	439.6
75°	322.6	335.7	356.5	358.8	352.9
77.5°	250.1	259.6	275.1	273.3	266.7
80°	175.8	183.6	194.9	192.5	185.3
82.5°	112.3	117.1	124.2	121.2	118.2
85°	61.2	61.8	62.4	61.8	60.0
87.5°	22.6	23.2	23.2	22.6	20.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)