

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: P488783

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-2HI-20-120-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: P488783
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-LD4-2HI-20-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

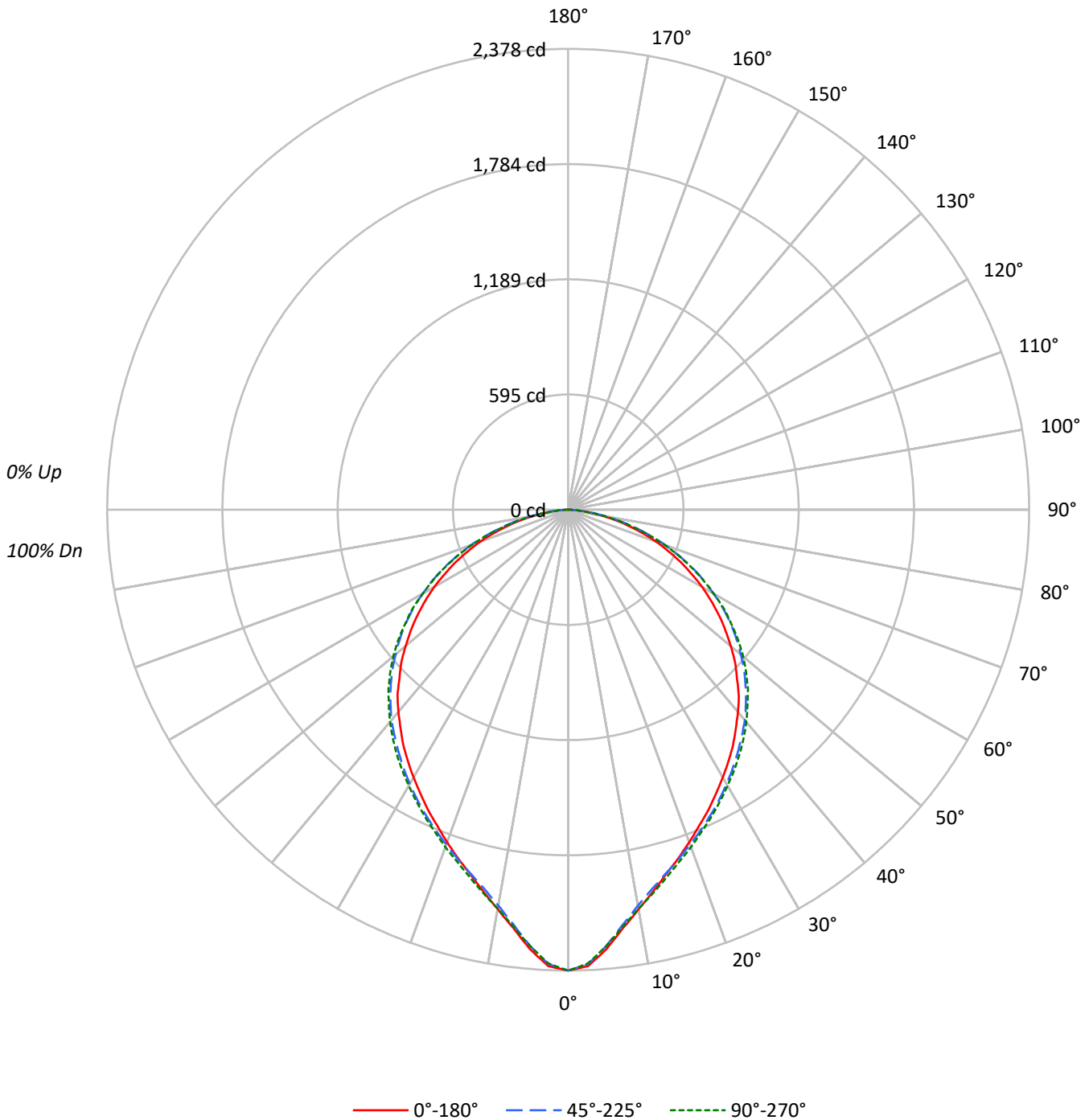
Lumens per Lamp: N/A
Luminaire Lumens: 5523.7 lumens
Efficiency: N/A
Efficacy: 63.9 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 86.4
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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CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-2HI-20-120-EDD

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°	6399	6399	6399
5°	6144	6101	6101
10°	5719	5667	5710
15°	5426	5417	5470
20°	5227	5265	5306
25°	5078	5161	5191
30°	4955	5078	5109
35°	4870	5013	5064
40°	4784	4978	5020
45°	4685	4930	4988
50°	4582	4868	4933
55°	4455	4798	4817
60°	4295	4666	4656
65°	4071	4487	4457
70°	3801	4184	4133
75°	3355	3707	3670
80°	2726	3020	2873
85°	1890	1927	1853



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.1	3.8
10°-20°	550.4	10.0
20°-30°	800.4	14.5
30°-40°	952.4	17.2
40°-50°	989.0	17.9
50°-60°	895.9	16.2
60°-70°	676.1	12.2
70°-80°	368.4	6.7
80°-90°	81.0	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°	1560.9	28.3
0°-40°	2513.4	45.5
0°-60°	4398.3	79.6
0°-90°	5523.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5523.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2378	2378	2378	2378	2378	
5°	2275	2269	2259	2257	2259	211
15°	1948	1943	1944	1957	1963	550
25°	1710	1724	1738	1752	1748	788
35°	1483	1500	1526	1549	1541	927
45°	1231	1253	1295	1310	1311	952
55°	950	972	1023	1030	1027	848
65°	639	658	705	704	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°	2378.0	2378.0	2378.0	2378.0	2378.0
2.5°	2357.2	2354.9	2347.1	2344.1	2343.5
5°	2274.6	2269.3	2258.6	2257.4	2258.6
7.5°	2176.0	2170.0	2159.4	2163.5	2168.9
10°	2092.8	2078.0	2073.8	2079.7	2089.8
12.5°	2018.5	2006.6	2003.1	2018.5	2025.7
15°	1947.8	1943.1	1944.3	1957.3	1963.3
17.5°	1886.6	1883.7	1891.4	1901.5	1904.5
20°	1825.4	1831.4	1838.5	1849.2	1852.7
22.5°	1765.4	1776.7	1788.6	1802.8	1798.1
25°	1710.2	1724.4	1738.1	1752.3	1748.2
27.5°	1651.3	1667.9	1687.0	1702.4	1696.5
30°	1594.8	1615.6	1634.1	1653.1	1644.2
32.5°	1539.0	1558.6	1580.6	1603.8	1593.7
35°	1482.6	1500.4	1525.9	1549.1	1541.4
37.5°	1420.2	1442.1	1471.2	1491.4	1486.1
40°	1361.9	1382.1	1417.2	1430.3	1429.1
42.5°	1303.1	1319.8	1356.6	1371.4	1369.1
45°	1231.2	1253.2	1295.4	1309.7	1310.8
47.5°	1167.6	1186.1	1231.2	1242.5	1244.9
50°	1094.5	1117.7	1162.9	1176.5	1178.3
52.5°	1022.6	1047.6	1093.9	1103.4	1105.3
55°	949.5	972.1	1022.6	1029.8	1026.8
57.5°	872.9	900.2	946.6	950.1	953.1
60°	798.0	821.8	866.9	871.7	865.2
62.5°	716.6	741.0	787.3	788.5	783.2
65°	639.4	657.8	704.7	703.5	700.0
67.5°	558.5	581.1	615.6	616.8	613.8
70°	483.1	498.5	531.8	532.4	525.3
72.5°	401.7	418.3	445.0	441.5	439.7
75°	322.7	335.7	356.5	358.9	353.0
77.5°	250.2	259.7	275.1	273.4	266.8
80°	175.9	183.6	194.9	192.5	185.4
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)