

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: P488782

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-2HI-20-120-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: P488782
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-90
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

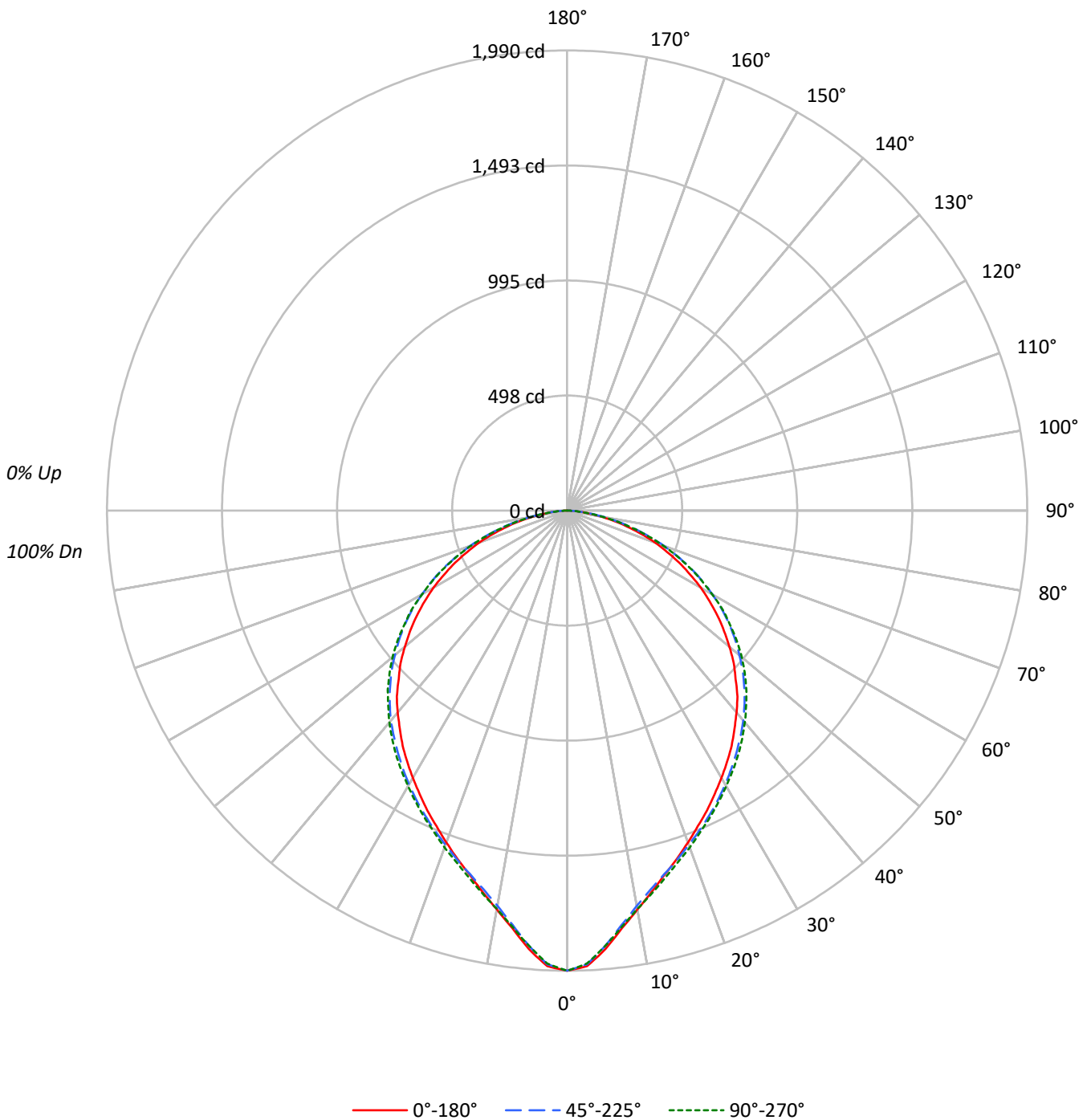
Lumens per Lamp: N/A
Luminaire Lumens: 4621.9 lumens
Efficiency: N/A
Efficacy: 53.5 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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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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°	5355	5355	5355
5°	5141	5105	5105
10°	4785	4741	4778
15°	4540	4532	4576
20°	4374	4405	4440
25°	4249	4318	4343
30°	4147	4249	4275
35°	4075	4194	4237
40°	4003	4166	4201
45°	3921	4125	4174
50°	3834	4073	4128
55°	3727	4015	4031
60°	3594	3904	3896
65°	3407	3755	3729
70°	3180	3501	3458
75°	2807	3101	3070
80°	2281	2528	2404
85°	1581	1612	1550



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.8	3.8
10°-20°	460.5	10.0
20°-30°	669.7	14.5
30°-40°	796.9	17.2
40°-50°	827.5	17.9
50°-60°	749.7	16.2
60°-70°	565.7	12.2
70°-80°	308.2	6.7
80°-90°	67.7	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°	1306.1	28.3
0°-40°	2103.0	45.5
0°-60°	3680.2	79.6
0°-90°	4621.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4621.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1990	1990	1990	1990	1990	
5°	1903	1899	1890	1889	1890	177
15°	1630	1626	1627	1638	1643	460
25°	1431	1443	1454	1466	1463	659
35°	1240	1255	1277	1296	1290	776
45°	1030	1049	1084	1096	1097	796
55°	794	813	856	862	859	709
65°	535	550	590	589	586	529
75°	270	281	298	300	295	288
85°	51	52	52	52	50	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	<i>1989.8</i>	<i>1989.8</i>	<i>1989.8</i>	<i>1989.8</i>	<i>1989.8</i>
2.5°	<i>1972.4</i>	1970.4	1963.9	1961.4	1960.9
5°	<i>1903.3</i>	1898.8	1889.8	1888.9	1889.8
7.5°	<i>1820.7</i>	1815.8	1806.8	1810.3	1814.8
10°	<i>1751.1</i>	1738.7	1735.2	1740.2	1748.6
12.5°	<i>1689.0</i>	1679.0	1676.0	1689.0	1695.0
15°	<i>1629.8</i>	1625.8	1626.8	1637.8	1642.7
17.5°	<i>1578.6</i>	1576.1	1582.6	1591.0	1593.5
20°	<i>1527.4</i>	1532.4	1538.3	1547.3	1550.3
22.5°	<i>1477.2</i>	1486.6	1496.6	1508.5	1504.5
25°	<i>1431.0</i>	1442.9	1454.3	1466.2	1462.8
27.5°	<i>1381.7</i>	1395.6	1411.6	1424.5	1419.5
30°	<i>1334.5</i>	1351.9	1367.3	1383.2	1375.8
32.5°	<i>1287.8</i>	1304.2	1322.5	1341.9	1333.5
35°	<i>1240.5</i>	1255.4	1276.8	1296.2	1289.8
37.5°	<i>1188.3</i>	1206.7	1231.0	1248.0	1243.5
40°	<i>1139.6</i>	1156.5	1185.8	1196.8	1195.8
42.5°	<i>1090.4</i>	1104.3	1135.1	1147.5	1145.5
45°	<i>1030.2</i>	1048.6	1083.9	1095.8	1096.8
47.5°	<i>977.0</i>	992.4	1030.2	1039.6	1041.6
50°	<i>915.8</i>	935.2	973.0	984.4	986.0
52.5°	<i>855.7</i>	876.5	915.3	923.3	924.8
55°	<i>794.5</i>	813.4	855.7	861.7	859.2
57.5°	<i>730.4</i>	753.3	792.1	795.0	797.5
60°	<i>667.7</i>	687.6	725.4	729.4	723.9
62.5°	<i>599.6</i>	620.0	658.8	659.8	655.3
65°	<i>535.0</i>	550.4	589.7	588.7	585.7
67.5°	<i>467.3</i>	486.2	515.1	516.1	513.6
70°	<i>404.2</i>	417.1	445.0	445.5	439.5
72.5°	<i>336.1</i>	350.0	372.4	369.4	367.9
75°	<i>270.0</i>	280.9	298.3	300.3	295.3
77.5°	<i>209.3</i>	217.3	230.2	228.7	223.2
80°	<i>147.2</i>	153.6	163.1	161.1	155.1
82.5°	<i>94.0</i>	98.0	103.9	101.4	98.9
85°	<i>51.2</i>	51.7	52.2	51.7	50.2
87.5°	<i>18.9</i>	19.4	19.4	18.9	17.4
90°	<i>0.0</i>	0.0	0.0	0.0	0.0

(END OF REPORT)