

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: P489761

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-1HI-35-120-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: P489761
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-24-4-INS-P12125-LD4-1HI-35-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

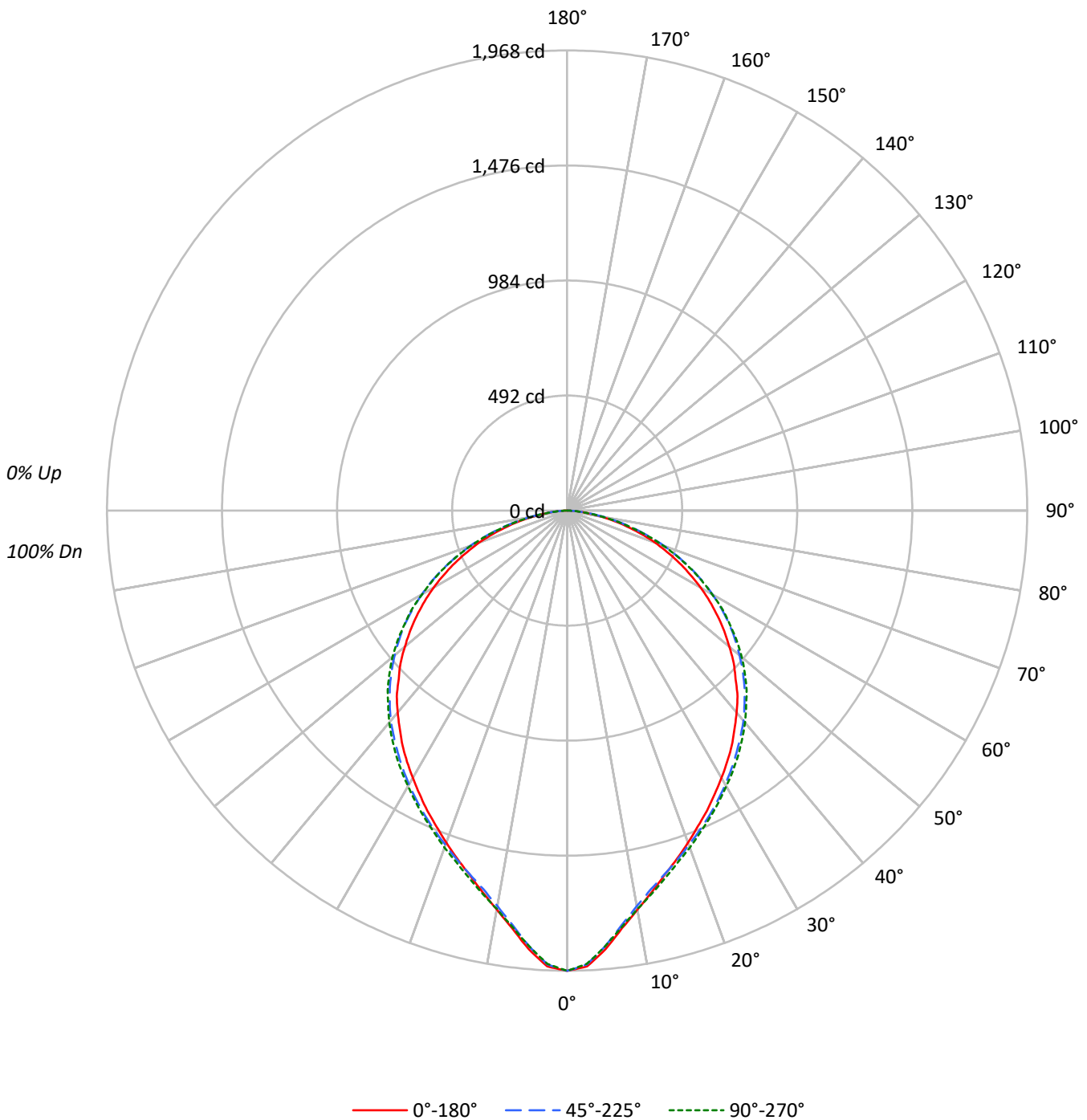
Lumens per Lamp: N/A
Luminaire Lumens: 4572.5 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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°	2649	2649	2649
5°	2543	2525	2525
10°	2367	2345	2364
15°	2246	2242	2264
20°	2164	2179	2196
25°	2102	2136	2148
30°	2051	2102	2115
35°	2016	2075	2096
40°	1980	2061	2078
45°	1939	2040	2065
50°	1897	2015	2042
55°	1844	1986	1994
60°	1778	1931	1927
65°	1685	1857	1845
70°	1573	1732	1710
75°	1389	1534	1519
80°	1128	1251	1189
85°	783	797	767



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.9	3.8
10°-20°	455.6	10.0
20°-30°	662.6	14.5
30°-40°	788.4	17.2
40°-50°	818.7	17.9
50°-60°	741.7	16.2
60°-70°	559.7	12.2
70°-80°	304.9	6.7
80°-90°	67.0	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°	1292.1	28.3
0°-40°	2080.6	45.5
0°-60°	3640.9	79.6
0°-90°	4572.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4572.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1968	1968	1968	1968	1968	
5°	1883	1878	1870	1869	1870	175
15°	1612	1608	1610	1620	1625	455
25°	1416	1427	1439	1451	1447	652
35°	1227	1242	1263	1282	1276	767
45°	1019	1037	1072	1084	1085	788
55°	786	805	846	852	850	702
65°	529	544	583	582	579	523
75°	267	278	295	297	292	285
85°	51	51	52	51	50	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1968.5	1968.5	1968.5	1968.5	1968.5
2.5°	1951.3	1949.3	1942.9	1940.5	1940.0
5°	1882.9	1878.5	1869.6	1868.7	1869.6
7.5°	1801.3	1796.4	1787.5	1791.0	1795.4
10°	1732.4	1720.1	1716.7	1721.6	1730.0
12.5°	1670.9	1661.1	1658.1	1670.9	1676.9
15°	1612.4	1608.5	1609.5	1620.3	1625.2
17.5°	1561.7	1559.3	1565.7	1574.0	1576.5
20°	1511.1	1516.0	1521.9	1530.8	1533.7
22.5°	1461.4	1470.7	1480.6	1492.4	1488.5
25°	1415.7	1427.4	1438.8	1450.6	1447.1
27.5°	1366.9	1380.7	1396.5	1409.3	1404.3
30°	1320.2	1337.4	1352.7	1368.4	1361.1
32.5°	1274.0	1290.2	1308.4	1327.6	1319.2
35°	1227.3	1242.0	1263.2	1282.4	1276.0
37.5°	1175.6	1193.8	1217.9	1234.6	1230.2
40°	1127.4	1144.1	1173.2	1184.0	1183.0
42.5°	1078.7	1092.5	1123.0	1135.3	1133.3
45°	1019.2	1037.4	1072.3	1084.1	1085.1
47.5°	966.6	981.8	1019.2	1028.5	1030.5
50°	906.1	925.2	962.6	973.9	975.4
52.5°	846.5	867.2	905.6	913.4	914.9
55°	786.0	804.7	846.5	852.5	850.0
57.5°	722.6	745.2	783.6	786.5	789.0
60°	660.6	680.3	717.7	721.6	716.2
62.5°	593.2	613.4	651.8	652.7	648.3
65°	529.3	544.5	583.4	582.4	579.4
67.5°	462.4	481.0	509.6	510.6	508.1
70°	399.9	412.7	440.2	440.7	434.8
72.5°	332.5	346.3	368.4	365.5	364.0
75°	267.1	277.9	295.1	297.1	292.2
77.5°	207.1	215.0	227.7	226.3	220.8
80°	145.6	152.0	161.4	159.4	153.4
82.5°	92.9	96.9	102.8	100.3	97.9
85°	50.7	51.1	51.6	51.1	49.7
87.5°	18.7	19.2	19.2	18.7	17.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)