

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: P488960

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-3STD-50-120-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: P488960
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-24-2-INS-A12125-LD4-3STD-50-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

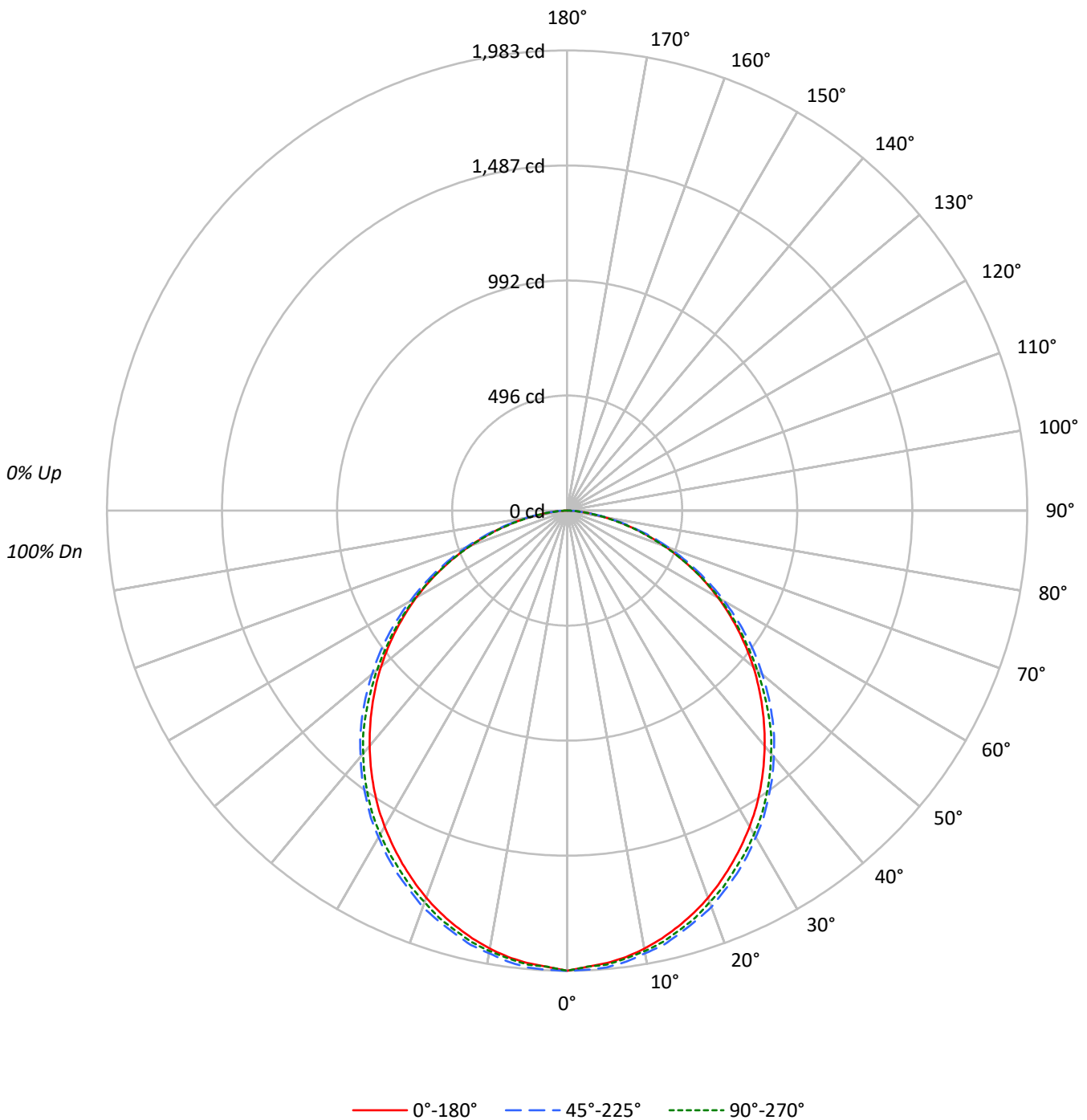
Lumens per Lamp: N/A
Luminaire Lumens: 5214.1 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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°	5337	5337	5337
5°	5287	5337	5304
10°	5239	5292	5267
15°	5166	5250	5213
20°	5085	5206	5143
25°	4986	5131	5072
30°	4886	5051	5005
35°	4776	4965	4919
40°	4651	4866	4804
45°	4521	4749	4659
50°	4385	4597	4477
55°	4226	4424	4288
60°	4046	4214	4084
65°	3813	3959	3815
70°	3508	3650	3470
75°	3089	3229	3042
80°	2510	2619	2481
85°	1748	1862	1819



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.8	3.6
10°-20°	529.3	10.2
20°-30°	789.4	15.1
30°-40°	935.5	17.9
40°-50°	946.6	18.2
50°-60°	826.7	15.9
60°-70°	604.1	11.6
70°-80°	321.4	6.2
80°-90°	74.3	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°	1505.5	28.9
0°-40°	2441.0	46.8
0°-60°	4214.3	80.8
0°-90°	5214.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5214.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1983	1983	1983	1983	1983	
5°	1957	1961	1976	1980	1964	186
15°	1854	1867	1884	1896	1871	523
25°	1679	1700	1728	1734	1708	774
35°	1454	1476	1511	1522	1497	909
45°	1188	1209	1248	1249	1224	916
55°	901	919	943	929	914	805
65°	599	611	622	609	599	593
75°	297	304	311	299	293	316
85°	57	58	60	61	59	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1983.3	1983.3	1983.3	1983.3	1983.3
2.5°	1967.8	1974.2	1980.8	1983.7	1967.6
5°	1957.4	1961.1	1975.8	1980.4	1963.6
7.5°	1940.5	1946.1	1960.3	1962.4	1946.3
10°	1917.3	1927.3	1936.8	1947.1	1927.5
12.5°	1887.8	1901.2	1917.3	1919.2	1904.3
15°	1854.5	1866.9	1884.5	1895.9	1871.3
17.5°	1817.3	1829.3	1852.0	1854.1	1839.2
20°	1775.8	1790.7	1818.0	1822.7	1796.0
22.5°	1728.7	1748.7	1771.5	1776.0	1756.4
25°	1679.3	1700.0	1728.1	1734.5	1708.2
27.5°	1627.6	1647.5	1679.1	1683.6	1661.5
30°	1572.3	1590.9	1625.6	1633.2	1610.7
32.5°	1516.1	1534.7	1573.1	1579.5	1557.6
35°	1453.7	1476.4	1511.3	1521.8	1497.3
37.5°	1390.0	1412.1	1451.8	1461.3	1434.9
40°	1324.1	1346.0	1385.1	1392.9	1367.5
42.5°	1256.7	1278.6	1320.4	1321.6	1300.5
45°	1187.9	1209.0	1247.9	1248.9	1224.3
47.5°	1118.1	1139.4	1174.1	1170.2	1147.0
50°	1047.4	1067.7	1098.0	1090.2	1069.3
52.5°	974.3	993.9	1022.6	1009.8	990.2
55°	900.7	918.9	942.9	929.2	913.9
57.5°	826.5	844.9	863.3	849.5	836.2
60°	751.7	767.8	782.9	768.9	758.8
62.5°	675.7	689.5	702.6	689.1	679.6
65°	598.8	611.0	621.8	609.4	599.2
67.5°	522.4	532.7	542.6	529.8	519.3
70°	445.9	454.8	463.9	450.7	441.0
72.5°	370.5	378.3	386.4	373.6	365.1
75°	297.1	304.0	310.6	299.2	292.6
77.5°	227.1	232.9	237.4	230.2	223.8
80°	162.0	166.3	169.0	166.1	160.1
82.5°	104.1	107.2	108.7	108.5	104.6
85°	56.6	57.7	60.3	61.0	58.9
87.5°	21.9	23.3	24.0	25.8	23.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)