

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: P489320

Luminaire Tested: **CLM-24-2-INS-P12125-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: P489320
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-24-2-INS-P12125-LD4-3STD-50-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

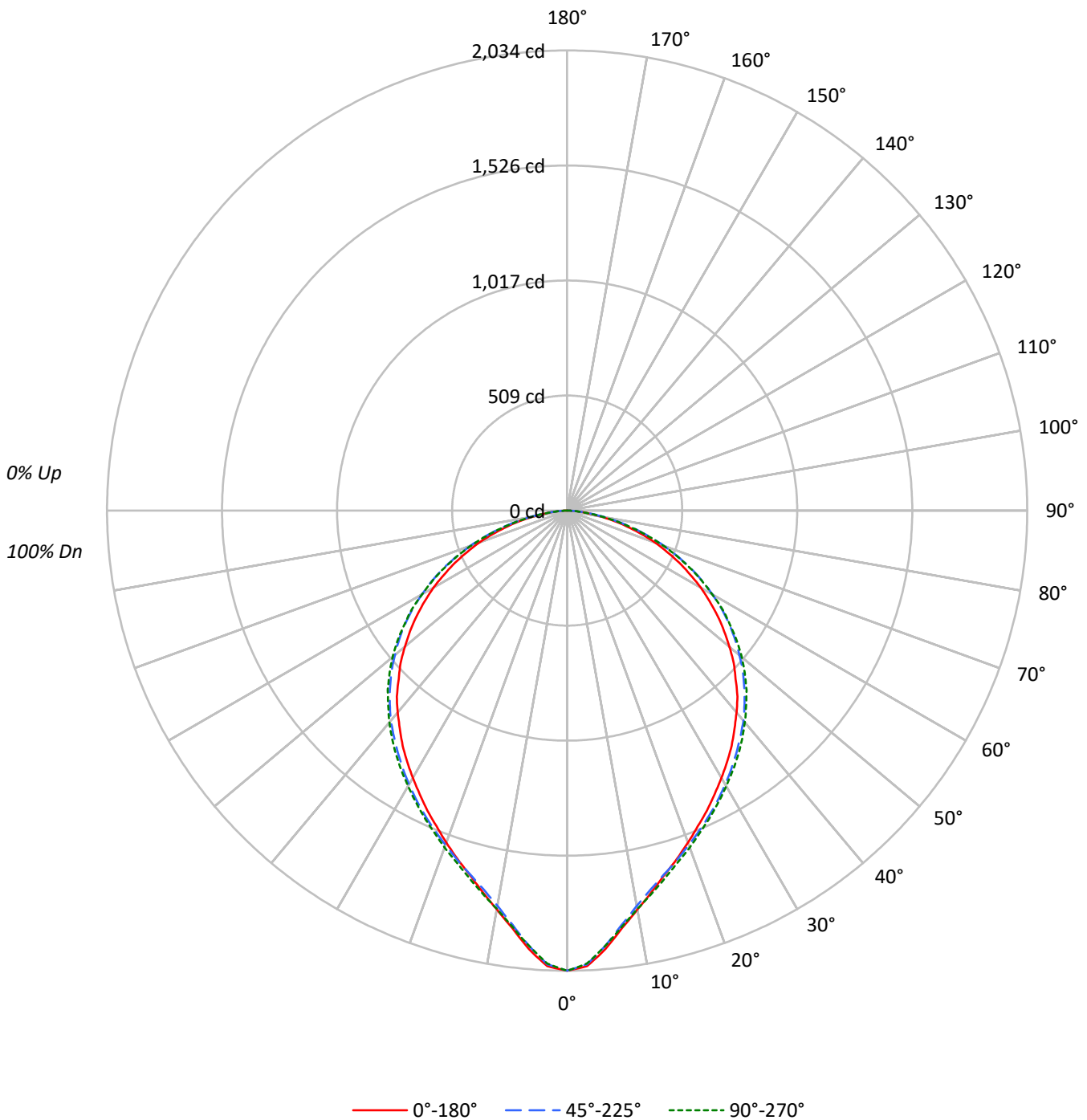
Lumens per Lamp: N/A
Luminaire Lumens: 4724.2 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	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°	5473	5473	5473
5°	5255	5218	5218
10°	4891	4846	4884
15°	4641	4633	4678
20°	4471	4503	4538
25°	4343	4414	4439
30°	4238	4343	4369
35°	4165	4287	4331
40°	4092	4258	4293
45°	4007	4216	4266
50°	3919	4164	4219
55°	3810	4103	4120
60°	3673	3991	3983
65°	3482	3838	3812
70°	3251	3578	3535
75°	2870	3170	3139
80°	2331	2583	2456
85°	1618	1649	1584



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.7	3.8
10°-20°	470.7	10.0
20°-30°	684.5	14.5
30°-40°	814.6	17.2
40°-50°	845.8	17.9
50°-60°	766.3	16.2
60°-70°	578.2	12.2
70°-80°	315.1	6.7
80°-90°	69.2	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°	1335.0	28.3
0°-40°	2149.6	45.5
0°-60°	3761.7	79.6
0°-90°	4724.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4724.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2034	2034	2034	2034	2034	
5°	1945	1941	1932	1931	1932	181
15°	1666	1662	1663	1674	1679	470
25°	1463	1475	1486	1499	1495	674
35°	1268	1283	1305	1325	1318	793
45°	1053	1072	1108	1120	1121	814
55°	812	831	875	881	878	725
65°	547	563	603	602	599	541
75°	276	287	305	307	302	294
85°	52	53	53	53	51	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2033.8	2033.8	2033.8	2033.8	2033.8
2.5°	2016.0	2014.0	2007.4	2004.9	2004.3
5°	1945.4	1940.8	1931.7	1930.7	1931.7
7.5°	1861.0	1856.0	1846.8	1850.4	1855.0
10°	1789.9	1777.2	1773.6	1778.7	1787.4
12.5°	1726.4	1716.2	1713.1	1726.4	1732.5
15°	1665.9	1661.8	1662.9	1674.0	1679.1
17.5°	1613.6	1611.0	1617.6	1626.3	1628.8
20°	1561.2	1566.3	1572.4	1581.6	1584.6
22.5°	1509.9	1519.5	1529.7	1541.9	1537.8
25°	1462.6	1474.8	1486.5	1498.7	1495.2
27.5°	1412.3	1426.5	1442.8	1456.0	1450.9
30°	1364.0	1381.8	1397.6	1413.8	1406.2
32.5°	1316.3	1333.0	1351.8	1371.6	1363.0
35°	1268.0	1283.2	1305.1	1324.9	1318.3
37.5°	1214.6	1233.4	1258.3	1275.6	1271.0
40°	1164.8	1182.1	1212.1	1223.3	1222.2
42.5°	1114.5	1128.7	1160.2	1172.9	1170.9
45°	1053.0	1071.8	1107.9	1120.1	1121.1
47.5°	998.6	1014.4	1053.0	1062.6	1064.7
50°	936.1	955.9	994.6	1006.2	1007.8
52.5°	874.6	895.9	935.6	943.7	945.3
55°	812.1	831.4	874.6	880.7	878.2
57.5°	746.6	769.9	809.6	812.6	815.2
60°	682.5	702.8	741.5	745.5	740.0
62.5°	612.9	633.7	673.4	674.4	669.8
65°	546.8	562.6	602.7	601.7	598.6
67.5°	477.7	497.0	526.5	527.5	525.0
70°	413.2	426.4	454.8	455.4	449.3
72.5°	343.6	357.8	380.6	377.6	376.1
75°	276.0	287.1	304.9	307.0	301.9
77.5°	214.0	222.1	235.3	233.8	228.2
80°	150.4	157.0	166.7	164.7	158.5
82.5°	96.0	100.1	106.2	103.7	101.1
85°	52.4	52.8	53.4	52.8	51.3
87.5°	19.3	19.8	19.8	19.3	17.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)