

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: P488360

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-2HI-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: P488360
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-12-2-INS-A12125-LD4-2HI-50-120-EDD-90
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

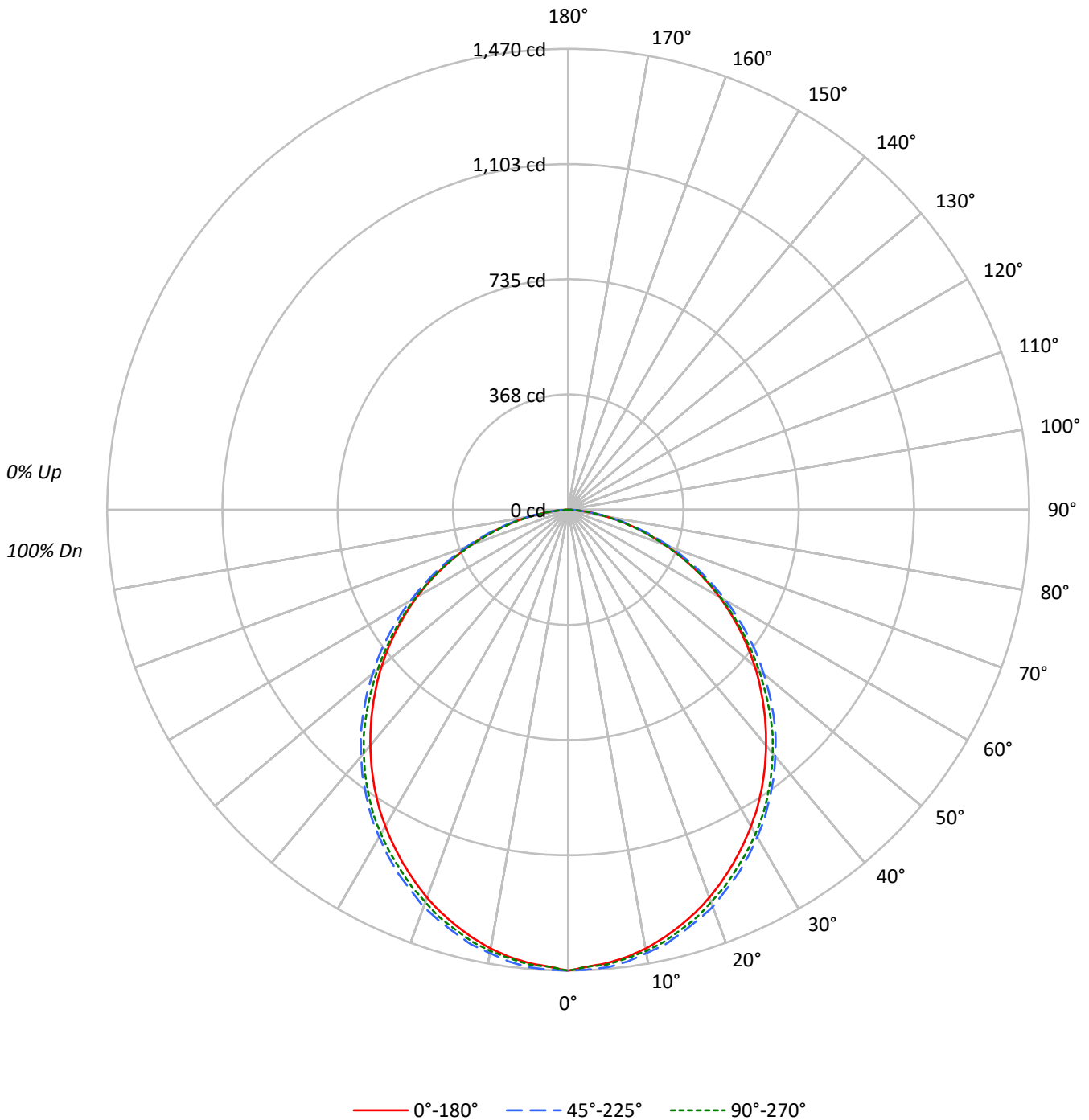
Lumens per Lamp: N/A
Luminaire Lumens: 3865.7 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
Input Voltage (V): NR
Input Current (A_{in}): 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°	7914	7914	7914
5°	7840	7914	7865
10°	7768	7847	7809
15°	7661	7784	7730
20°	7541	7719	7627
25°	7393	7608	7521
30°	7244	7490	7421
35°	7081	7362	7294
40°	6897	7215	7123
45°	6703	7042	6909
50°	6502	6816	6638
55°	6266	6559	6358
60°	5999	6248	6055
65°	5654	5871	5658
70°	5202	5412	5144
75°	4581	4789	4510
80°	3722	3883	3679
85°	2594	2760	2699



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.5	3.6
10°-20°	392.4	10.2
20°-30°	585.3	15.1
30°-40°	693.6	17.9
40°-50°	701.8	18.2
50°-60°	612.9	15.9
60°-70°	447.9	11.6
70°-80°	238.3	6.2
80°-90°	55.1	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°	1116.2	28.9
0°-40°	1809.7	46.8
0°-60°	3124.4	80.8
0°-90°	3865.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3865.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1470	1470	1470	1470	1470	
5°	1451	1454	1465	1468	1456	138
15°	1375	1384	1397	1406	1387	388
25°	1245	1260	1281	1286	1266	574
35°	1078	1095	1120	1128	1110	674
45°	881	896	925	926	908	679
55°	668	681	699	689	678	597
65°	444	453	461	452	444	439
75°	220	225	230	222	217	234
85°	42	43	45	45	44	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1470.4	1470.4	1470.4	1470.4	1470.4
2.5°	1458.9	1463.6	1468.5	1470.7	1458.7
5°	1451.2	1454.0	1464.9	1468.2	1455.8
7.5°	1438.7	1442.8	1453.4	1454.9	1443.0
10°	1421.5	1428.9	1435.9	1443.6	1429.0
12.5°	1399.6	1409.6	1421.5	1422.9	1411.9
15°	1374.9	1384.1	1397.1	1405.6	1387.3
17.5°	1347.4	1356.2	1373.1	1374.6	1363.6
20°	1316.6	1327.6	1347.8	1351.3	1331.6
22.5°	1281.6	1296.5	1313.3	1316.7	1302.2
25°	1245.0	1260.3	1281.2	1285.9	1266.5
27.5°	1206.7	1221.4	1244.9	1248.2	1231.8
30°	1165.7	1179.5	1205.2	1210.9	1194.2
32.5°	1124.0	1137.8	1166.3	1171.0	1154.8
35°	1077.7	1094.6	1120.5	1128.3	1110.1
37.5°	1030.5	1046.9	1076.4	1083.4	1063.8
40°	981.7	997.9	1026.9	1032.7	1013.9
42.5°	931.7	948.0	978.9	979.8	964.2
45°	880.7	896.3	925.2	925.9	907.7
47.5°	828.9	844.7	870.5	867.5	850.4
50°	776.6	791.6	814.1	808.3	792.8
52.5°	722.3	736.9	758.2	748.7	734.1
55°	667.8	681.3	699.0	688.9	677.6
57.5°	612.8	626.4	640.1	629.8	620.0
60°	557.3	569.3	580.5	570.0	562.5
62.5°	501.0	511.2	520.9	510.9	503.9
65°	444.0	453.0	461.0	451.8	444.3
67.5°	387.3	394.9	402.3	392.8	385.0
70°	330.6	337.2	343.9	334.1	326.9
72.5°	274.7	280.5	286.5	277.0	270.7
75°	220.3	225.4	230.3	221.8	216.9
77.5°	168.4	172.7	176.0	170.7	165.9
80°	120.1	123.3	125.3	123.2	118.7
82.5°	77.2	79.5	80.6	80.4	77.5
85°	42.0	42.7	44.7	45.2	43.7
87.5°	16.2	17.3	17.8	19.1	17.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)