

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: P488756

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-1HI-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: P488756
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-LD4-1HI-50-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

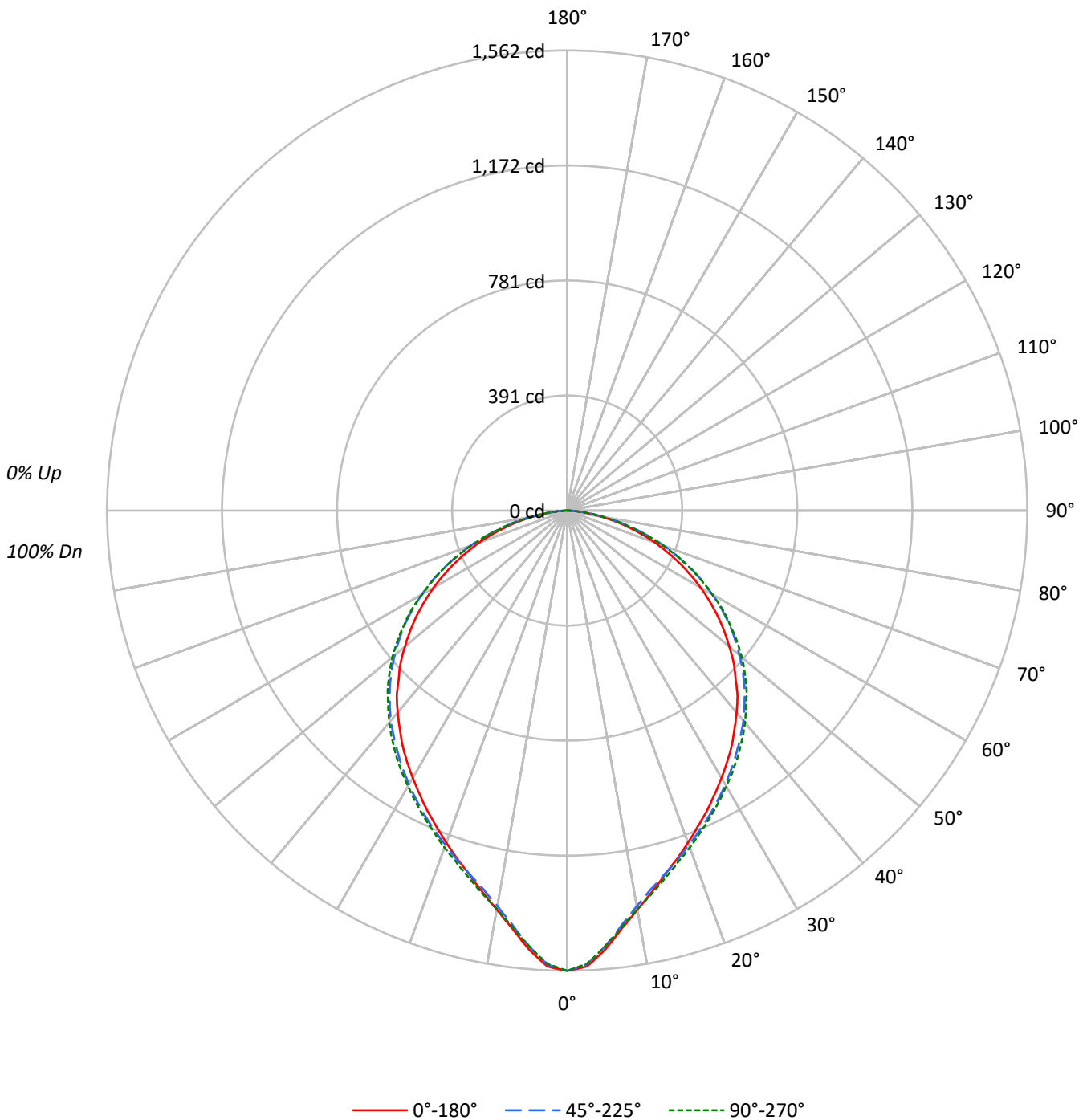
Lumens per Lamp: N/A
Luminaire Lumens: 3629.4 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	4205	4205	4205
5°	4037	4009	4009
10°	3757	3723	3752
15°	3565	3559	3594
20°	3435	3459	3486
25°	3336	3391	3411
30°	3256	3336	3357
35°	3200	3294	3327
40°	3144	3271	3299
45°	3079	3239	3278
50°	3011	3199	3241
55°	2927	3152	3165
60°	2822	3066	3060
65°	2675	2948	2928
70°	2497	2749	2716
75°	2204	2436	2411
80°	1791	1985	1888
85°	1241	1266	1216



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.1	3.8
10°-20°	361.7	10.0
20°-30°	525.9	14.5
30°-40°	625.8	17.2
40°-50°	649.8	17.9
50°-60°	588.7	16.2
60°-70°	444.2	12.2
70°-80°	242.0	6.7
80°-90°	53.2	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°	1025.6	28.3
0°-40°	1651.4	45.5
0°-60°	2889.9	79.6
0°-90°	3629.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3629.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1562	1562	1562	1562	1562	
5°	1495	1491	1484	1483	1484	139
15°	1280	1277	1278	1286	1290	361
25°	1124	1133	1142	1151	1149	518
35°	974	986	1003	1018	1013	609
45°	809	823	851	860	861	625
55°	624	639	672	677	675	557
65°	420	432	463	462	460	415
75°	212	221	234	236	232	226
85°	40	41	41	41	39	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1562.5	1562.5	1562.5	1562.5	1562.5
2.5°	1548.8	1547.3	1542.2	1540.2	1539.8
5°	1494.6	1491.1	1484.0	1483.3	1484.0
7.5°	1429.8	1425.8	1418.8	1421.6	1425.1
10°	1375.1	1365.3	1362.6	1366.5	1373.1
12.5°	1326.3	1318.5	1316.1	1326.3	1331.0
15°	1279.8	1276.7	1277.5	1286.1	1290.0
17.5°	1239.6	1237.7	1242.8	1249.4	1251.3
20°	1199.4	1203.3	1208.0	1215.0	1217.4
22.5°	1160.0	1167.4	1175.2	1184.6	1181.5
25°	1123.7	1133.0	1142.0	1151.4	1148.7
27.5°	1085.0	1095.9	1108.4	1118.6	1114.7
30°	1047.9	1061.6	1073.7	1086.2	1080.3
32.5°	1011.2	1024.1	1038.5	1053.8	1047.1
35°	974.1	985.8	1002.6	1017.9	1012.8
37.5°	933.1	947.6	966.7	980.0	976.5
40°	894.9	908.2	931.2	939.8	939.0
42.5°	856.2	867.2	891.4	901.1	899.6
45°	809.0	823.4	851.1	860.5	861.3
47.5°	767.2	779.3	809.0	816.4	817.9
50°	719.2	734.4	764.1	773.0	774.2
52.5°	671.9	688.3	718.8	725.0	726.2
55°	623.9	638.7	671.9	676.6	674.7
57.5°	573.6	591.5	622.0	624.3	626.3
60°	524.3	540.0	569.6	572.8	568.5
62.5°	470.9	486.9	517.3	518.1	514.6
65°	420.1	432.2	463.0	462.3	459.9
67.5°	367.0	381.8	404.5	405.3	403.3
70°	317.4	327.6	349.4	349.8	345.2
72.5°	263.9	274.9	292.4	290.1	288.9
75°	212.0	220.6	234.3	235.8	231.9
77.5°	164.4	170.6	180.8	179.6	175.3
80°	115.6	120.6	128.1	126.5	121.8
82.5°	73.8	76.9	81.6	79.7	77.7
85°	40.2	40.6	41.0	40.6	39.4
87.5°	14.8	15.2	15.2	14.8	13.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)