

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: P488750

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-1HI-30-120-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: P488750
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-30-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

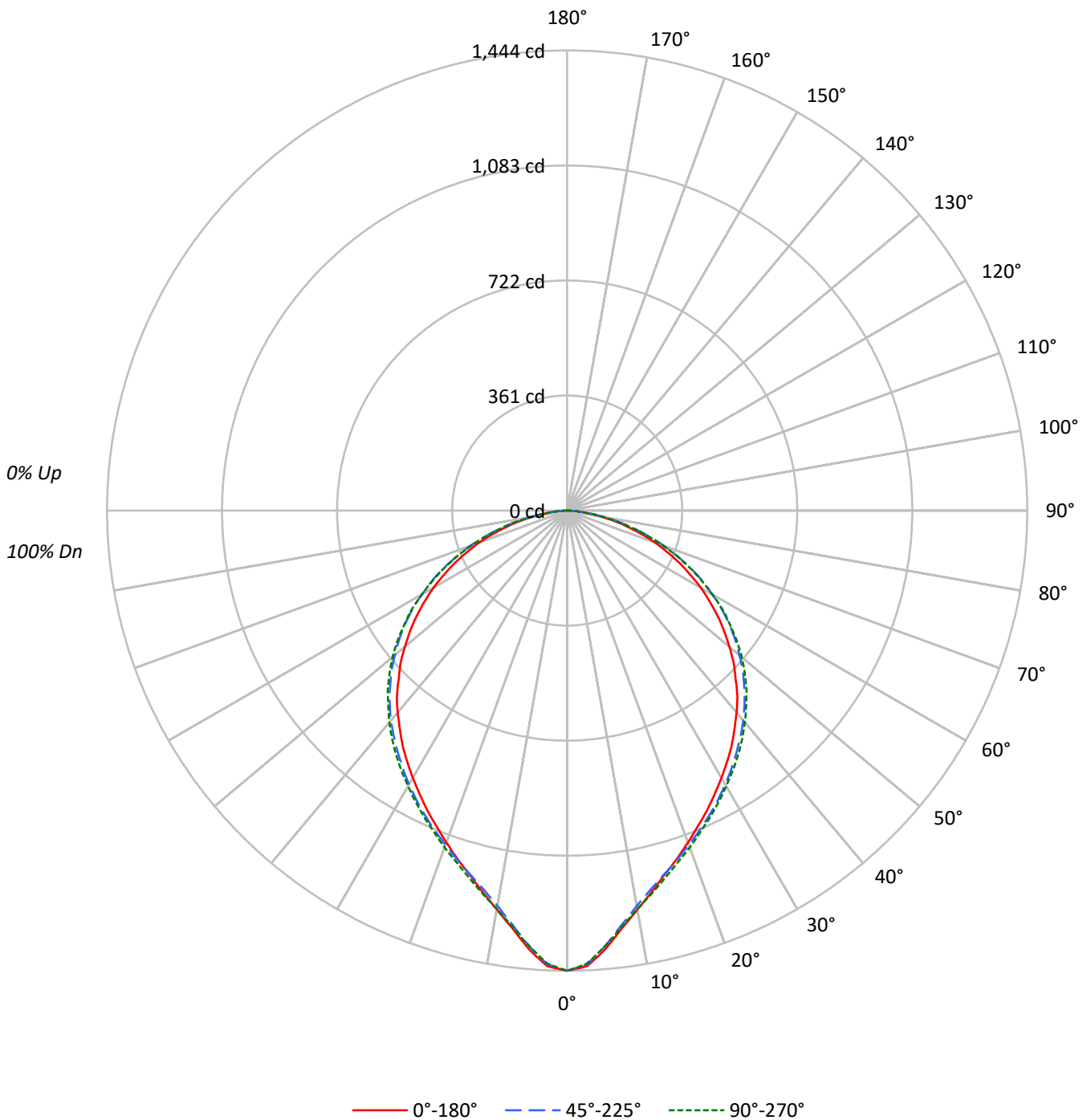
Lumens per Lamp: N/A
Luminaire Lumens: 3353.7 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
Input Voltage (V): NR
Input Current (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	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°	3885	3885	3885
5°	3730	3704	3704
10°	3472	3440	3467
15°	3295	3289	3321
20°	3174	3196	3221
25°	3083	3133	3151
30°	3009	3083	3102
35°	2957	3044	3075
40°	2905	3022	3048
45°	2845	2993	3029
50°	2782	2956	2995
55°	2705	2913	2925
60°	2608	2833	2827
65°	2472	2725	2706
70°	2308	2541	2509
75°	2037	2251	2228
80°	1655	1833	1743
85°	1149	1170	1124



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.6	3.8
10°-20°	334.2	10.0
20°-30°	486.0	14.5
30°-40°	578.3	17.2
40°-50°	600.5	17.9
50°-60°	544.0	16.2
60°-70°	410.5	12.2
70°-80°	223.7	6.7
80°-90°	49.1	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°	947.7	28.3
0°-40°	1526.0	45.5
0°-60°	2670.4	79.6
0°-90°	3353.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3353.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1444	1444	1444	1444	1444	
5°	1381	1378	1371	1371	1371	128
15°	1183	1180	1180	1188	1192	334
25°	1038	1047	1055	1064	1061	478
35°	900	911	926	940	936	563
45°	748	761	786	795	796	578
55°	576	590	621	625	623	515
65°	388	399	428	427	425	384
75°	196	204	216	218	214	209
85°	37	38	38	38	36	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1443.8	1443.8	1443.8	1443.8	1443.8
2.5°	1431.2	1429.7	1425.1	1423.2	1422.9
5°	1381.0	1377.8	1371.3	1370.6	1371.3
7.5°	1321.2	1317.5	1311.1	1313.6	1316.8
10°	1270.6	1261.6	1259.1	1262.7	1268.8
12.5°	1225.5	1218.3	1216.2	1225.5	1229.9
15°	1182.6	1179.7	1180.5	1188.4	1192.0
17.5°	1145.5	1143.7	1148.3	1154.5	1156.3
20°	1108.3	1111.9	1116.2	1122.7	1124.9
22.5°	1071.9	1078.7	1085.9	1094.6	1091.7
25°	1038.3	1047.0	1055.3	1063.9	1061.4
27.5°	1002.6	1012.7	1024.2	1033.6	1030.0
30°	968.3	980.9	992.1	1003.7	998.3
32.5°	934.4	946.3	959.7	973.7	967.6
35°	900.1	911.0	926.5	940.5	935.9
37.5°	862.3	875.6	893.3	905.5	902.3
40°	826.9	839.2	860.4	868.4	867.7
42.5°	791.2	801.3	823.6	832.7	831.2
45°	747.5	760.9	786.5	795.2	795.9
47.5°	708.9	720.1	747.5	754.4	755.8
50°	664.5	678.6	706.0	714.3	715.4
52.5°	620.9	636.0	664.2	669.9	671.0
55°	576.5	590.2	620.9	625.2	623.4
57.5°	530.0	546.6	574.7	576.9	578.7
60°	484.5	498.9	526.4	529.2	525.3
62.5°	435.1	449.9	478.0	478.7	475.5
65°	388.2	399.4	427.9	427.2	425.0
67.5°	339.1	352.8	373.8	374.5	372.7
70°	293.3	302.7	322.9	323.3	318.9
72.5°	243.9	254.0	270.2	268.1	267.0
75°	195.9	203.8	216.5	217.9	214.3
77.5°	151.9	157.7	167.0	166.0	162.0
80°	106.8	111.5	118.3	116.9	112.5
82.5°	68.2	71.1	75.4	73.6	71.8
85°	37.2	37.5	37.9	37.5	36.4
87.5°	13.7	14.1	14.1	13.7	12.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)