

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: P489310

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-3STD-20-120-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: P489310
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-20-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

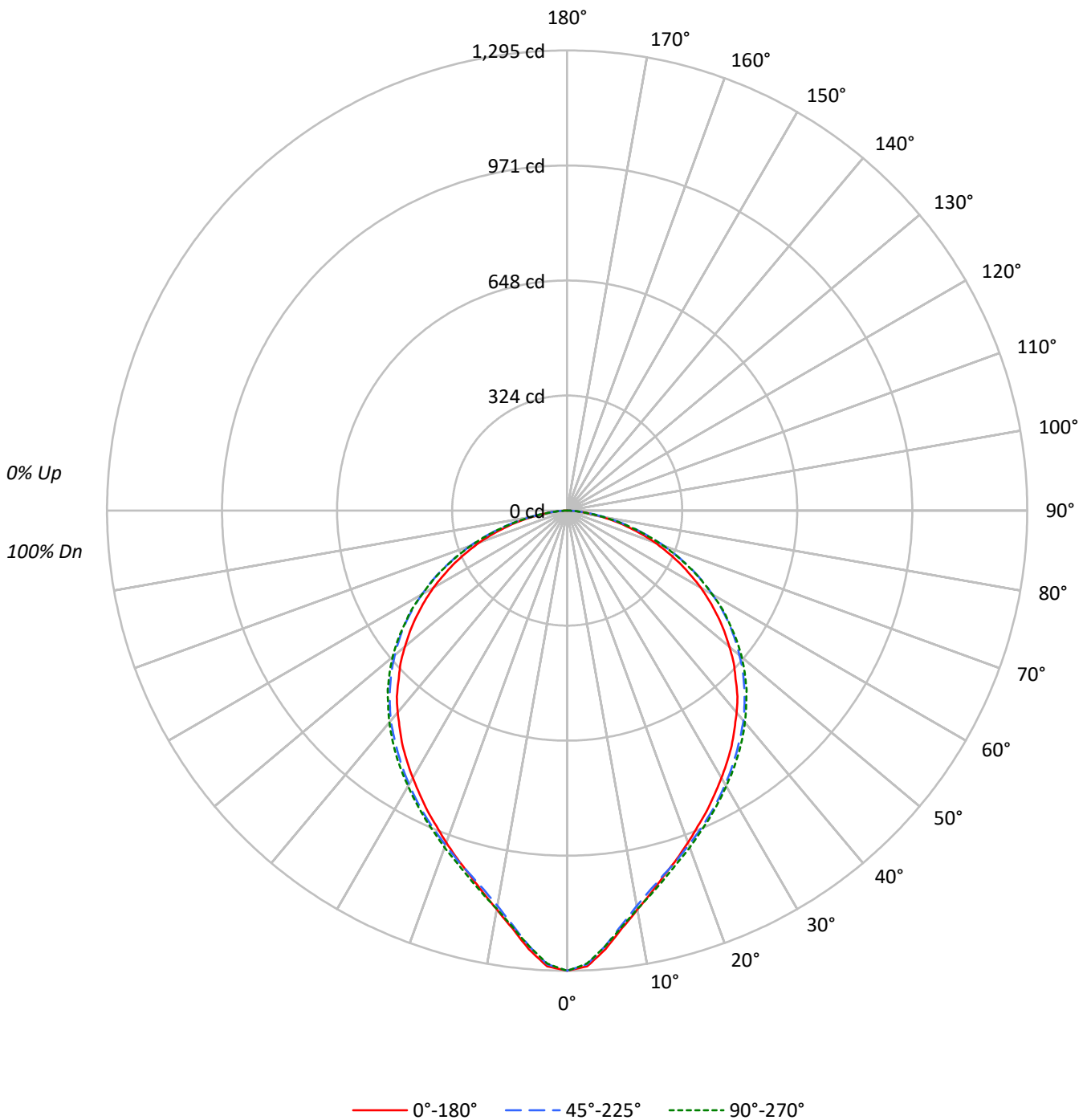
Lumens per Lamp: N/A
Luminaire Lumens: 3008.1 lumens
Efficiency: N/A
Efficacy: 60.2 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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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CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-3STD-20-120-EDD-90

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°	3485	3485	3485
5°	3346	3323	3323
10°	3114	3086	3110
15°	2955	2950	2979
20°	2847	2867	2889
25°	2765	2810	2827
30°	2699	2765	2782
35°	2652	2730	2757
40°	2605	2711	2734
45°	2552	2684	2716
50°	2496	2651	2686
55°	2426	2613	2624
60°	2339	2541	2536
65°	2217	2444	2427
70°	2070	2279	2251
75°	1827	2019	1998
80°	1485	1644	1564
85°	1028	1050	1010



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.4	3.8
10°-20°	299.7	10.0
20°-30°	435.9	14.5
30°-40°	518.7	17.2
40°-50°	538.6	17.9
50°-60°	487.9	16.2
60°-70°	368.2	12.2
70°-80°	200.6	6.7
80°-90°	44.1	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°	850.0	28.3
0°-40°	1368.7	45.5
0°-60°	2395.2	79.6
0°-90°	3008.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3008.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1295	1295	1295	1295	1295	
5°	1239	1236	1230	1229	1230	115
15°	1061	1058	1059	1066	1069	299
25°	931	939	946	954	952	429
35°	807	817	831	844	839	505
45°	670	682	705	713	714	518
55°	517	529	557	561	559	462
65°	348	358	384	383	381	344
75°	176	183	194	196	192	187
85°	33	34	34	34	33	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1295.0	1295.0	1295.0	1295.0	1295.0
2.5°	1283.7	1282.4	1278.2	1276.6	1276.2
5°	1238.7	1235.8	1230.0	1229.3	1230.0
7.5°	1185.0	1181.8	1176.0	1178.2	1181.1
10°	1139.7	1131.6	1129.3	1132.6	1138.1
12.5°	1099.2	1092.8	1090.8	1099.2	1103.1
15°	1060.7	1058.1	1058.8	1065.9	1069.2
17.5°	1027.4	1025.8	1030.0	1035.5	1037.1
20°	994.1	997.3	1001.2	1007.0	1009.0
22.5°	961.4	967.5	974.0	981.8	979.2
25°	931.3	939.1	946.5	954.3	952.0
27.5°	899.3	908.3	918.7	927.1	923.9
30°	868.5	879.9	889.9	900.2	895.4
32.5°	838.1	848.8	860.8	873.4	867.9
35°	807.4	817.1	831.0	843.6	839.4
37.5°	773.4	785.4	801.2	812.2	809.3
40°	741.7	752.7	771.8	778.9	778.2
42.5°	709.6	718.7	738.8	746.9	745.6
45°	670.5	682.5	705.4	713.2	713.8
47.5°	635.9	645.9	670.5	676.6	677.9
50°	596.1	608.7	633.3	640.7	641.7
52.5°	556.9	570.5	595.7	600.9	601.9
55°	517.1	529.4	556.9	560.8	559.2
57.5°	475.4	490.2	515.5	517.4	519.0
60°	434.6	447.5	472.1	474.7	471.2
62.5°	390.3	403.5	428.8	429.4	426.5
65°	348.2	358.2	383.8	383.1	381.2
67.5°	304.2	316.5	335.2	335.9	334.3
70°	263.1	271.5	289.6	289.9	286.1
72.5°	218.8	227.8	242.4	240.4	239.5
75°	175.7	182.8	194.2	195.5	192.2
77.5°	136.2	141.4	149.8	148.9	145.3
80°	95.8	100.0	106.1	104.9	100.9
82.5°	61.1	63.8	67.6	66.0	64.4
85°	33.3	33.6	34.0	33.6	32.7
87.5°	12.3	12.6	12.6	12.3	11.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)