

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: P489365

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-5HI-35-120-EDD**

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: P489365
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-LD4-5HI-35-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

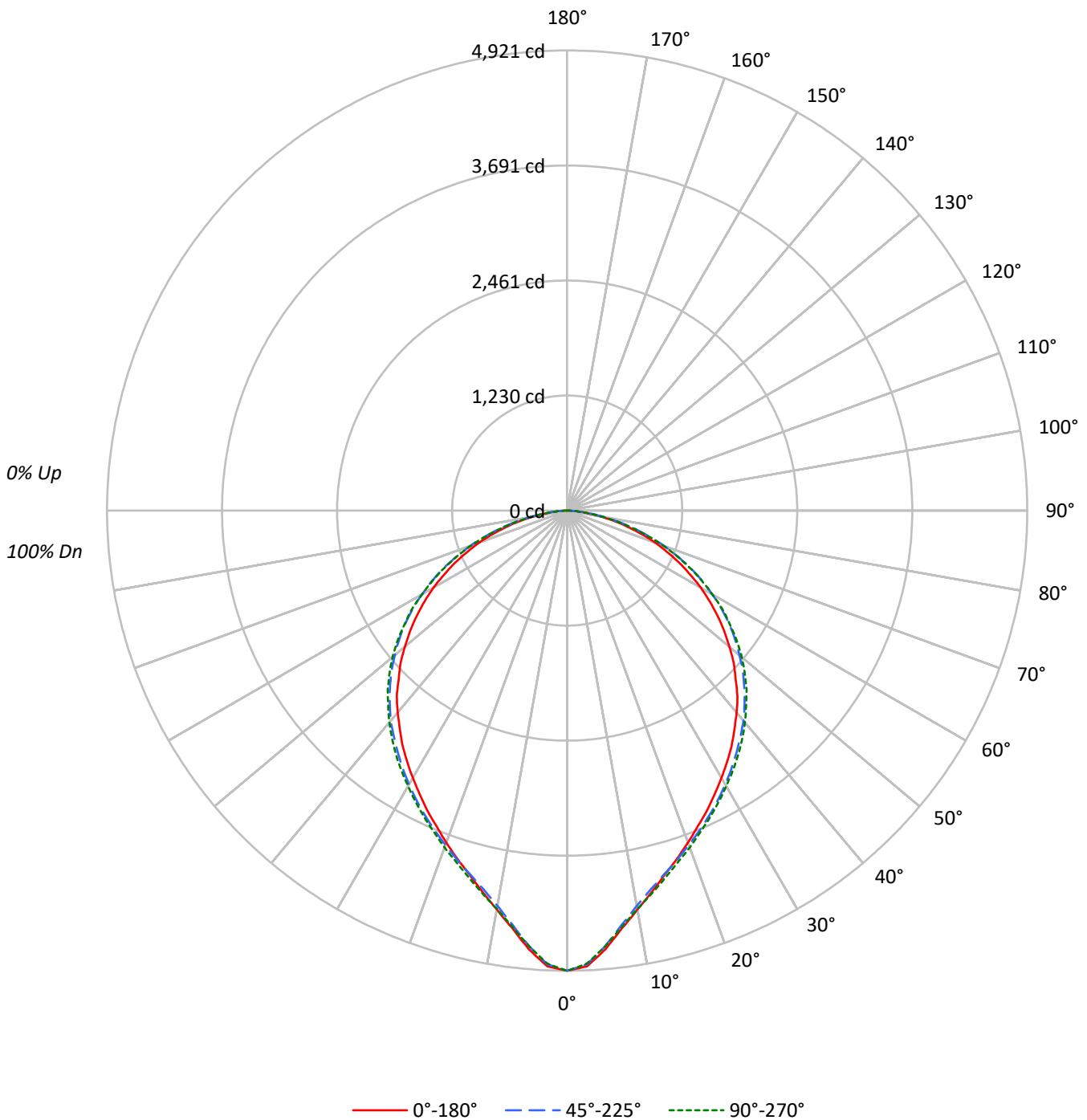
Lumens per Lamp: N/A
Luminaire Lumens: 11430.7 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 108
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°	13243	13243	13243
5°	12715	12625	12625
10°	11834	11726	11817
15°	11229	11209	11318
20°	10818	10895	10979
25°	10508	10679	10742
30°	10255	10508	10573
35°	10079	10374	10479
40°	9901	10302	10388
45°	9696	10201	10323
50°	9482	10075	10208
55°	9218	9928	9969
60°	8888	9656	9636
65°	8425	9286	9223
70°	7866	8659	8553
75°	6942	7671	7594
80°	5641	6251	5945
85°	3912	3986	3835



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	434.8	3.8
10°-20°	1139.0	10.0
20°-30°	1656.3	14.5
30°-40°	1971.0	17.2
40°-50°	2046.6	17.9
50°-60°	1854.1	16.2
60°-70°	1399.1	12.2
70°-80°	762.3	6.7
80°-90°	167.5	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°	3230.2	28.3
0°-40°	5201.2	45.5
0°-60°	9101.8	79.6
0°-90°	11430.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11430.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4921	4921	4921	4921	4921	
5°	4707	4696	4674	4672	4674	437
15°	4031	4021	4023	4050	4063	1138
25°	3539	3568	3597	3626	3618	1631
35°	3068	3105	3158	3206	3190	1918
45°	2548	2593	2681	2710	2713	1969
55°	1965	2012	2116	2131	2125	1754
65°	1323	1361	1458	1456	1448	1308
75°	668	695	738	743	730	711
85°	127	128	129	128	124	160
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4921.1	4921.1	4921.1	4921.1	4921.1
2.5°	4878.0	4873.1	4857.1	4851.0	4849.7
5°	4707.1	4696.1	4673.9	4671.5	4673.9
7.5°	4503.0	4490.7	4468.6	4477.2	4488.3
10°	4330.9	4300.1	4291.4	4303.8	4324.7
12.5°	4177.1	4152.5	4145.1	4177.1	4191.9
15°	4030.8	4020.9	4023.4	4050.5	4062.7
17.5°	3904.2	3898.0	3914.0	3934.9	3941.1
20°	3777.5	3789.8	3804.6	3826.7	3834.0
22.5°	3653.3	3676.6	3701.3	3730.8	3721.0
25°	3539.0	3568.5	3596.8	3626.3	3617.7
27.5°	3417.2	3451.6	3491.0	3523.0	3510.7
30°	3300.3	3343.4	3381.6	3420.9	3402.5
32.5°	3184.8	3225.4	3270.9	3318.8	3297.9
35°	3068.0	3104.9	3157.8	3205.8	3189.8
37.5°	2938.9	2984.4	3044.6	3086.4	3075.4
40°	2818.4	2860.2	2932.7	2959.8	2957.3
42.5°	2696.6	2731.1	2807.3	2838.0	2833.1
45°	2547.9	2593.3	2680.6	2710.2	2712.6
47.5°	2416.3	2454.4	2547.9	2571.2	2576.1
50°	2265.0	2313.0	2406.5	2434.7	2438.4
52.5°	2116.2	2167.8	2263.8	2283.4	2287.2
55°	1964.9	2011.7	2116.2	2131.0	2124.9
57.5°	1806.4	1862.9	1958.9	1966.2	1972.4
60°	1651.4	1700.6	1794.1	1803.9	1790.4
62.5°	1483.0	1533.4	1629.3	1631.7	1620.6
65°	1323.1	1361.2	1458.3	1455.9	1448.5
67.5°	1155.8	1202.5	1273.9	1276.3	1270.3
70°	999.7	1031.7	1100.5	1101.8	1087.1
72.5°	831.3	865.7	921.0	913.6	910.0
75°	667.7	694.8	737.8	742.7	730.4
77.5°	517.7	537.4	569.3	565.7	552.1
80°	364.0	379.9	403.4	398.4	383.6
82.5°	232.4	242.3	257.0	250.9	244.7
85°	126.7	127.8	129.1	127.8	124.2
87.5°	46.7	48.0	48.0	46.7	43.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)