

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: P489363

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-5HI-30-120-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: P489363
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-30-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

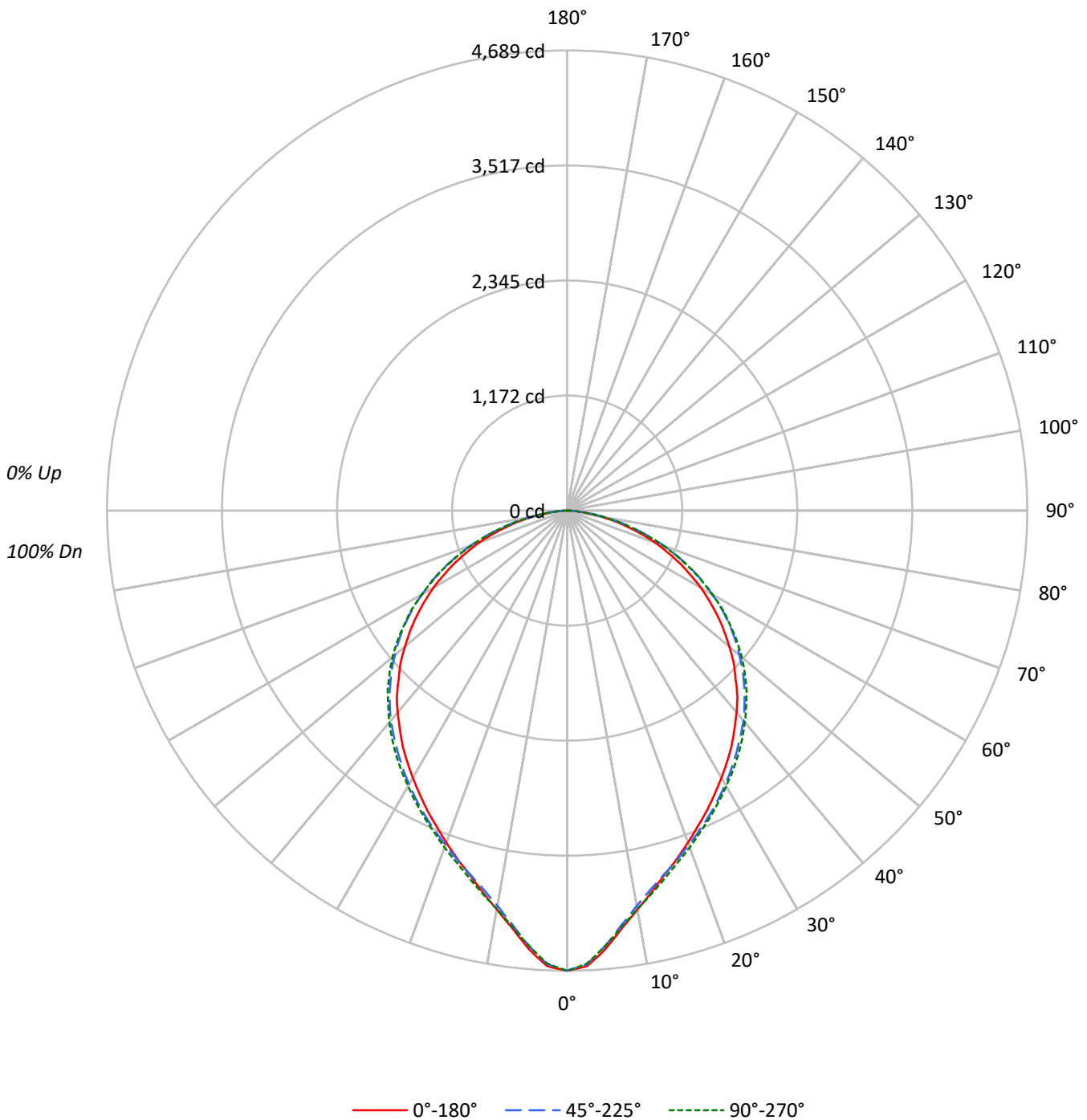
Lumens per Lamp: N/A
Luminaire Lumens: 10890.8 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	12617	12617	12617
5°	12115	12029	12029
10°	11275	11172	11259
15°	10699	10679	10784
20°	10307	10381	10461
25°	10011	10175	10234
30°	9771	10011	10073
35°	9603	9883	9984
40°	9433	9816	9898
45°	9238	9720	9836
50°	9035	9599	9726
55°	8783	9459	9498
60°	8468	9199	9181
65°	8027	8847	8788
70°	7494	8250	8149
75°	6615	7309	7235
80°	5374	5955	5664
85°	3727	3798	3653



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.3	3.8
10°-20°	1085.2	10.0
20°-30°	1578.1	14.5
30°-40°	1877.9	17.2
40°-50°	1949.9	17.9
50°-60°	1766.5	16.2
60°-70°	1333.0	12.2
70°-80°	726.3	6.7
80°-90°	159.6	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°	3077.6	28.3
0°-40°	4955.5	45.5
0°-60°	8671.9	79.6
0°-90°	10890.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10890.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4689	4689	4689	4689	4689	
5°	4485	4474	4453	4451	4453	416
15°	3840	3831	3833	3859	3871	1084
25°	3372	3400	3427	3455	3447	1554
35°	2923	2958	3009	3054	3039	1827
45°	2428	2471	2554	2582	2584	1876
55°	1872	1917	2016	2030	2024	1672
65°	1261	1297	1389	1387	1380	1246
75°	636	662	703	708	696	678
85°	121	122	123	122	118	152
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4688.7	4688.7	4688.7	4688.7	4688.7
2.5°	4647.6	4643.0	4627.7	4621.8	4620.6
5°	4484.8	4474.3	4453.1	4450.8	4453.1
7.5°	4290.3	4278.6	4257.5	4265.7	4276.3
10°	4126.3	4097.0	4088.7	4100.5	4120.4
12.5°	3979.8	3956.4	3949.3	3979.8	3993.9
15°	3840.4	3831.0	3833.4	3859.2	3870.9
17.5°	3719.8	3713.9	3729.1	3749.1	3754.9
20°	3599.1	3610.8	3624.9	3646.0	3653.0
22.5°	3480.8	3503.0	3526.5	3554.6	3545.2
25°	3371.8	3399.9	3426.9	3455.0	3446.8
27.5°	3255.8	3288.6	3326.1	3356.6	3344.8
30°	3144.5	3185.5	3221.8	3259.3	3241.8
32.5°	3034.4	3073.1	3116.4	3162.1	3142.2
35°	2923.1	2958.2	3008.6	3054.3	3039.1
37.5°	2800.1	2843.4	2900.8	2940.6	2930.2
40°	2685.3	2725.1	2794.2	2820.0	2817.6
42.5°	2569.2	2602.1	2674.7	2704.0	2699.3
45°	2427.5	2470.9	2554.0	2582.2	2584.5
47.5°	2302.2	2338.5	2427.5	2449.7	2454.4
50°	2158.1	2203.8	2292.8	2319.7	2323.3
52.5°	2016.2	2065.4	2156.9	2175.6	2179.2
55°	1872.1	1916.7	2016.2	2030.4	2024.5
57.5°	1721.1	1774.9	1866.4	1873.3	1879.2
60°	1573.4	1620.3	1709.3	1718.7	1705.8
62.5°	1412.9	1460.9	1552.4	1554.7	1544.1
65°	1260.6	1296.9	1389.4	1387.1	1380.1
67.5°	1101.2	1145.8	1213.8	1216.1	1210.3
70°	952.5	982.9	1048.6	1049.7	1035.7
72.5°	792.0	824.8	877.5	870.5	867.0
75°	636.2	662.0	703.0	707.7	695.9
77.5°	493.3	512.0	542.5	539.0	526.0
80°	346.8	362.0	384.3	379.6	365.5
82.5°	221.4	230.8	244.9	239.0	233.1
85°	120.7	121.8	123.0	121.8	118.3
87.5°	44.5	45.7	45.7	44.5	41.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)