

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: P489391

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-5STD-40-120-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: P489391
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-LD4-5STD-40-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

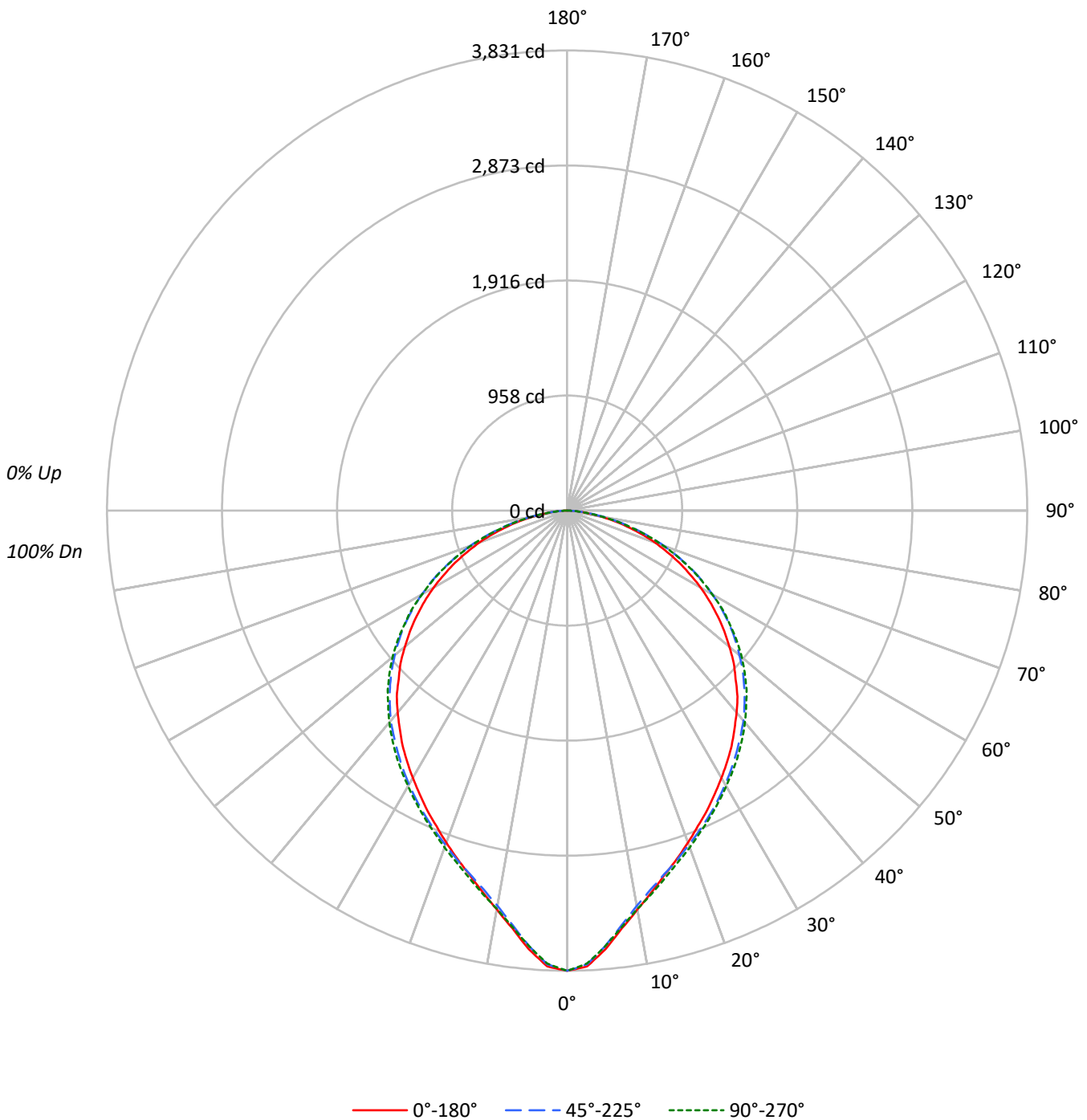
Lumens per Lamp: N/A
Luminaire Lumens: 8899.3 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 83.2
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°	10310	10310	10310
5°	9899	9829	9829
10°	9213	9130	9200
15°	8742	8727	8812
20°	8422	8482	8548
25°	8181	8314	8363
30°	7984	8181	8231
35°	7847	8076	8158
40°	7708	8021	8088
45°	7549	7942	8037
50°	7382	7843	7947
55°	7177	7729	7761
60°	6920	7517	7502
65°	6559	7230	7181
70°	6124	6741	6659
75°	5404	5972	5913
80°	4392	4866	4629
85°	3044	3103	2986



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.5	3.8
10°-20°	886.8	10.0
20°-30°	1289.5	14.5
30°-40°	1534.5	17.2
40°-50°	1593.3	17.9
50°-60°	1443.5	16.2
60°-70°	1089.3	12.2
70°-80°	593.5	6.7
80°-90°	130.4	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°	2514.8	28.3
0°-40°	4049.3	45.5
0°-60°	7086.2	79.6
0°-90°	8899.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8899.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3831	3831	3831	3831	3831	
5°	3665	3656	3639	3637	3639	340
15°	3138	3130	3132	3154	3163	886
25°	2755	2778	2800	2823	2816	1270
35°	2389	2417	2458	2496	2483	1493
45°	1984	2019	2087	2110	2112	1533
55°	1530	1566	1648	1659	1654	1366
65°	1030	1060	1135	1134	1128	1018
75°	520	541	574	578	569	554
85°	99	100	100	100	97	124
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3831.3	3831.3	3831.3	3831.3	3831.3
2.5°	3797.8	3793.9	3781.5	3776.7	3775.7
5°	3664.7	3656.1	3638.8	3637.0	3638.8
7.5°	3505.8	3496.2	3479.0	3485.7	3494.3
10°	3371.8	3347.8	3341.1	3350.7	3367.0
12.5°	3252.1	3232.9	3227.2	3252.1	3263.6
15°	3138.1	3130.5	3132.4	3153.5	3163.0
17.5°	3039.6	3034.8	3047.2	3063.5	3068.3
20°	2940.9	2950.6	2962.0	2979.3	2985.0
22.5°	2844.3	2862.4	2881.6	2904.6	2896.9
25°	2755.2	2778.2	2800.2	2823.2	2816.5
27.5°	2660.4	2687.2	2717.9	2742.8	2733.2
30°	2569.5	2603.0	2632.7	2663.3	2649.0
32.5°	2479.5	2511.1	2546.5	2583.9	2567.6
35°	2388.6	2417.3	2458.5	2495.8	2483.4
37.5°	2288.1	2323.5	2370.3	2402.9	2394.3
40°	2194.2	2226.8	2283.3	2304.3	2302.4
42.5°	2099.4	2126.3	2185.6	2209.5	2205.7
45°	1983.6	2019.0	2087.0	2110.0	2111.9
47.5°	1881.2	1910.9	1983.6	2001.8	2005.6
50°	1763.4	1800.8	1873.5	1895.5	1898.4
52.5°	1647.5	1687.8	1762.5	1777.8	1780.7
55°	1529.8	1566.2	1647.5	1659.1	1654.3
57.5°	1406.3	1450.4	1525.1	1530.8	1535.6
60°	1285.7	1324.0	1396.7	1404.4	1393.9
62.5°	1154.6	1193.8	1268.5	1270.4	1261.7
65°	1030.1	1059.8	1135.4	1133.5	1127.7
67.5°	899.9	936.2	991.8	993.7	989.0
70°	778.3	803.2	856.8	857.8	846.3
72.5°	647.2	674.0	717.0	711.3	708.5
75°	519.8	540.9	574.4	578.3	568.7
77.5°	403.1	418.4	443.3	440.4	429.8
80°	283.4	295.8	314.0	310.2	298.7
82.5°	180.9	188.6	200.1	195.3	190.5
85°	98.6	99.5	100.5	99.5	96.7
87.5°	36.4	37.4	37.4	36.4	33.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)