

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: P489366

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-5HI-40-120-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: P489366
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-40-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

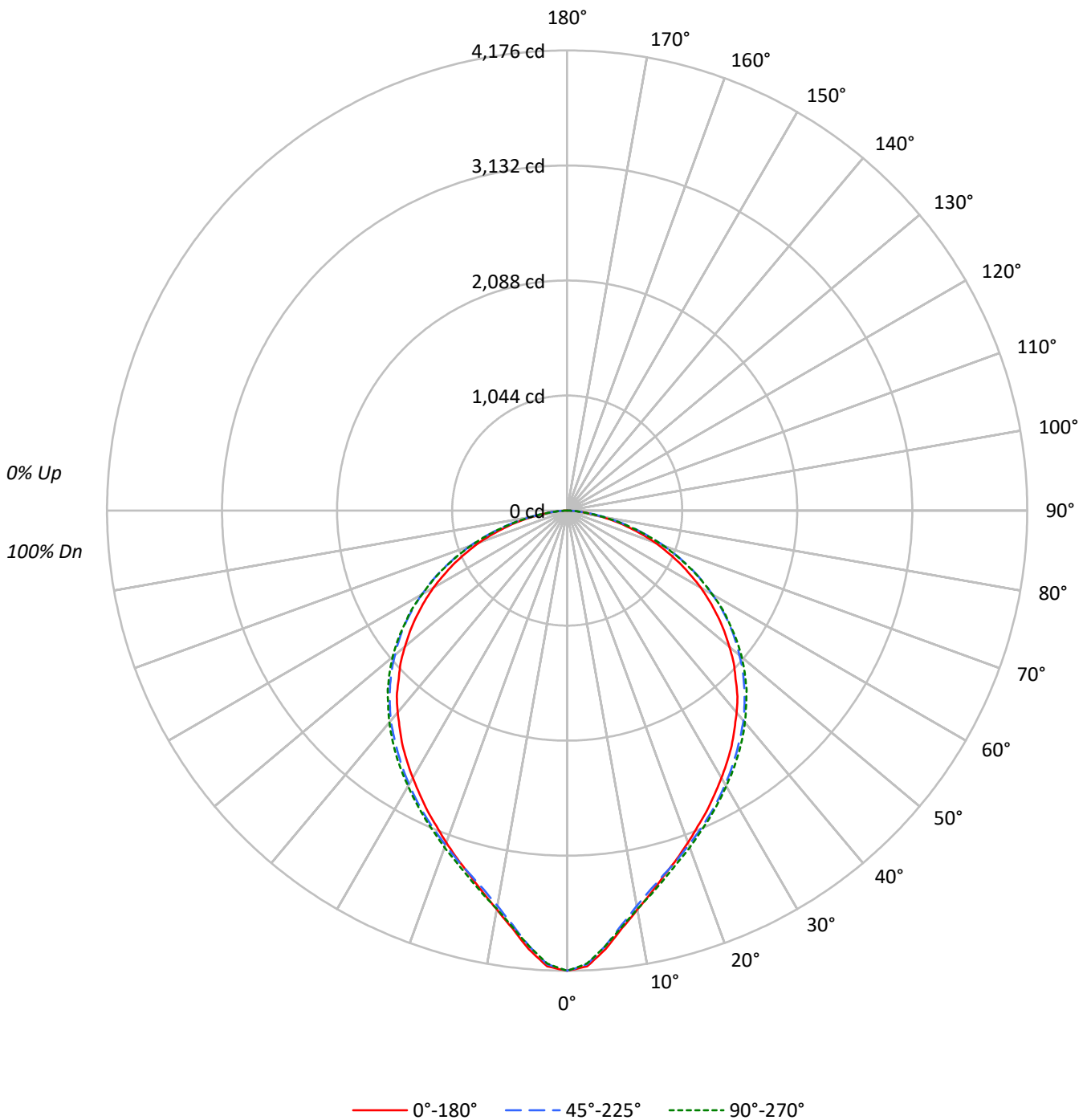
Lumens per Lamp: N/A
Luminaire Lumens: 9700.4 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	11238	11238	11238
5°	10790	10714	10714
10°	10043	9951	10028
15°	9529	9512	9605
20°	9180	9246	9318
25°	8917	9063	9116
30°	8703	8917	8972
35°	8553	8803	8892
40°	8402	8743	8816
45°	8229	8657	8761
50°	8047	8550	8663
55°	7823	8426	8460
60°	7542	8194	8177
65°	7149	7880	7827
70°	6674	7348	7258
75°	5891	6510	6444
80°	4787	5305	5044
85°	3319	3381	3254



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.0	3.8
10°-20°	966.6	10.0
20°-30°	1405.6	14.5
30°-40°	1672.6	17.2
40°-50°	1736.8	17.9
50°-60°	1573.4	16.2
60°-70°	1187.3	12.2
70°-80°	646.9	6.7
80°-90°	142.1	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°	2741.2	28.3
0°-40°	4413.9	45.5
0°-60°	7724.1	79.6
0°-90°	9700.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9700.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4176	4176	4176	4176	4176	
5°	3995	3985	3966	3964	3966	371
15°	3421	3412	3414	3437	3448	965
25°	3003	3028	3052	3077	3070	1384
35°	2604	2635	2680	2720	2707	1628
45°	2162	2201	2275	2300	2302	1671
55°	1668	1707	1796	1808	1803	1489
65°	1123	1155	1238	1236	1229	1110
75°	567	590	626	630	620	604
85°	108	108	110	108	105	136
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4176.2	4176.2	4176.2	4176.2	4176.2
2.5°	4139.6	4135.5	4121.9	4116.7	4115.6
5°	3994.6	3985.2	3966.4	3964.4	3966.4
7.5°	3821.4	3810.9	3792.2	3799.5	3808.9
10°	3675.3	3649.2	3641.8	3652.3	3670.0
12.5°	3544.8	3524.0	3517.7	3544.8	3557.4
15°	3420.6	3412.3	3414.4	3437.4	3447.8
17.5°	3313.2	3308.0	3321.5	3339.3	3344.5
20°	3205.7	3216.2	3228.7	3247.5	3253.7
22.5°	3100.3	3120.1	3141.0	3166.0	3157.7
25°	3003.3	3028.3	3052.3	3077.3	3070.1
27.5°	2899.9	2929.1	2962.6	2989.7	2979.2
30°	2800.8	2837.3	2869.7	2903.0	2887.4
32.5°	2702.7	2737.2	2775.8	2816.5	2798.7
35°	2603.6	2634.9	2679.8	2720.5	2706.9
37.5°	2494.0	2532.6	2583.7	2619.2	2609.9
40°	2391.8	2427.2	2488.8	2511.8	2509.6
42.5°	2288.4	2317.7	2382.4	2408.4	2404.3
45°	2162.2	2200.8	2274.9	2300.0	2302.0
47.5°	2050.5	2082.9	2162.2	2182.0	2186.1
50°	1922.2	1962.9	2042.2	2066.1	2069.3
52.5°	1795.9	1839.7	1921.1	1937.8	1941.0
55°	1667.5	1707.2	1795.9	1808.5	1803.2
57.5°	1532.9	1580.9	1662.4	1668.6	1673.8
60°	1401.4	1443.2	1522.5	1530.8	1519.4
62.5°	1258.5	1301.3	1382.7	1384.7	1375.3
65°	1122.8	1155.2	1237.6	1235.5	1229.2
67.5°	980.9	1020.5	1081.1	1083.1	1078.0
70°	848.3	875.5	933.9	935.0	922.5
72.5°	705.4	734.6	781.6	775.3	772.2
75°	566.6	589.6	626.1	630.3	619.8
77.5°	439.3	456.0	483.2	480.1	468.5
80°	308.9	322.4	342.3	338.1	325.5
82.5°	197.2	205.6	218.1	212.9	207.7
85°	107.5	108.5	109.5	108.5	105.4
87.5°	39.6	40.7	40.7	39.6	36.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)