

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: P489360

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-5HI-27-120-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: P489360
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-27-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

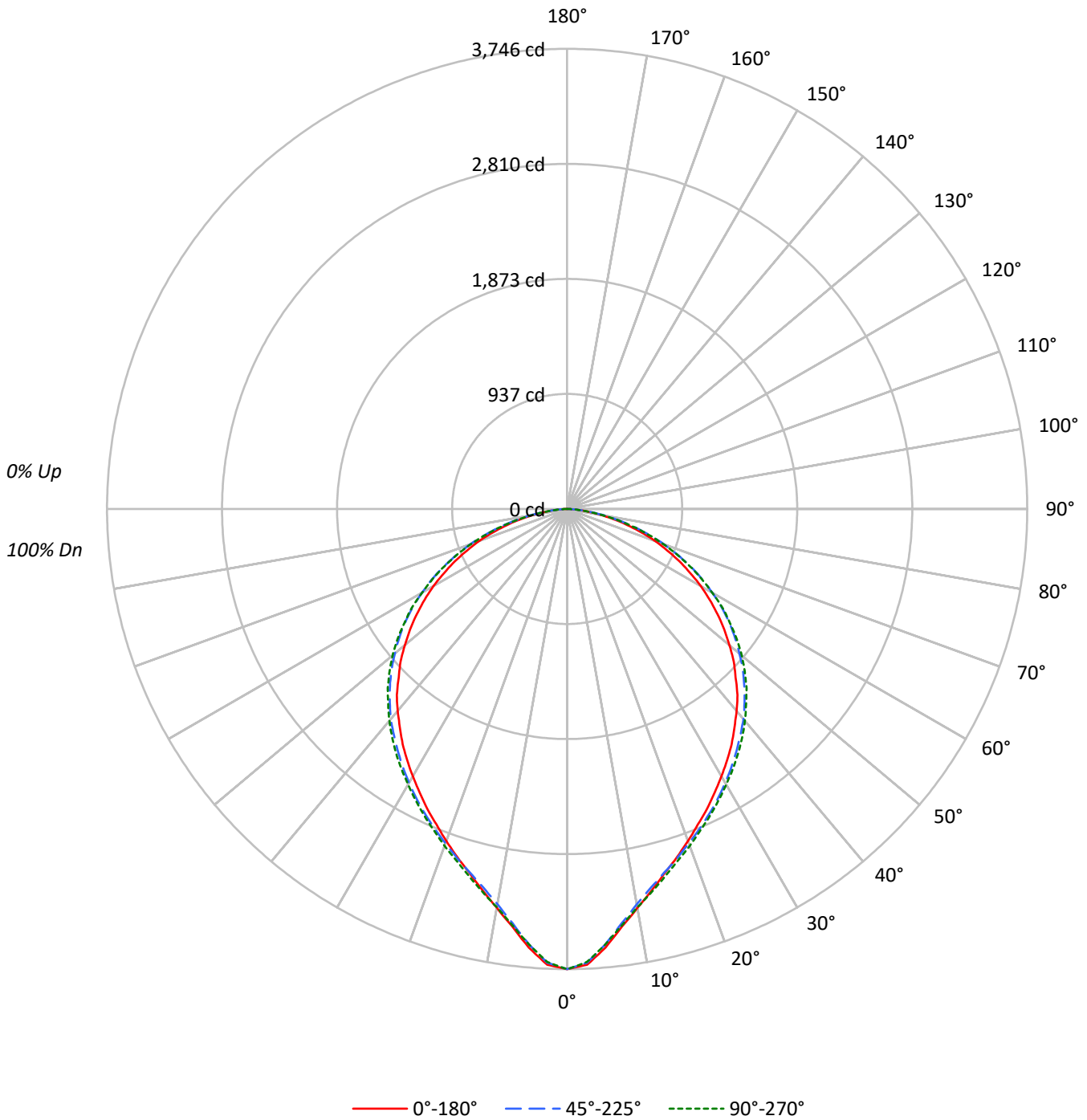
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8701.3 lumens
Efficiency: N/A
Efficacy: 80.6 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																		
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	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°	10080	10080	10080
5°	9679	9611	9611
10°	9008	8926	8995
15°	8548	8532	8616
20°	8235	8294	8358
25°	7999	8129	8177
30°	7806	7998	8048
35°	7672	7897	7976
40°	7536	7842	7908
45°	7381	7766	7858
50°	7218	7669	7771
55°	7018	7558	7589
60°	6766	7350	7335
65°	6413	7068	7021
70°	5987	6592	6511
75°	5285	5840	5781
80°	4293	4757	4525
85°	2976	3035	2918



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.0	3.8
10°-20°	867.0	10.0
20°-30°	1260.8	14.5
30°-40°	1500.4	17.2
40°-50°	1557.9	17.9
50°-60°	1411.4	16.2
60°-70°	1065.0	12.2
70°-80°	580.3	6.7
80°-90°	127.5	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°	2458.9	28.3
0°-40°	3959.2	45.5
0°-60°	6928.5	79.6
0°-90°	8701.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8701.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3746	3746	3746	3746	3746	
5°	3583	3575	3558	3556	3558	333
15°	3068	3061	3063	3083	3093	866
25°	2694	2716	2738	2760	2754	1241
35°	2335	2364	2404	2440	2428	1460
45°	1940	1974	2041	2063	2065	1499
55°	1496	1531	1611	1622	1618	1336
65°	1007	1036	1110	1108	1103	996
75°	508	529	562	565	556	541
85°	96	97	98	97	94	122
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3746.0	3746.0	3746.0	3746.0	3746.0
2.5°	3713.3	3709.5	3697.4	3692.7	3691.7
5°	3583.2	3574.7	3557.9	3556.0	3557.9
7.5°	3427.8	3418.4	3401.6	3408.1	3416.6
10°	3296.7	3273.3	3266.7	3276.1	3292.0
12.5°	3179.7	3161.0	3155.3	3179.7	3191.0
15°	3068.3	3060.8	3062.7	3083.3	3092.7
17.5°	2972.0	2967.3	2979.4	2995.3	3000.0
20°	2875.5	2884.9	2896.1	2913.0	2918.6
22.5°	2781.0	2798.7	2817.5	2840.0	2832.5
25°	2693.9	2716.4	2737.9	2760.4	2753.9
27.5°	2601.3	2627.4	2657.4	2681.8	2672.4
30°	2512.3	2545.1	2574.1	2604.0	2590.0
32.5°	2424.4	2455.2	2489.9	2526.4	2510.5
35°	2335.4	2363.5	2403.8	2440.3	2428.1
37.5°	2237.2	2271.8	2317.6	2349.4	2341.1
40°	2145.4	2177.2	2232.5	2253.1	2251.2
42.5°	2052.7	2079.0	2137.0	2160.4	2156.6
45°	1939.5	1974.1	2040.6	2063.1	2064.9
47.5°	1839.3	1868.4	1939.5	1957.2	1961.0
50°	1724.2	1760.7	1831.8	1853.3	1856.2
52.5°	1610.9	1650.2	1723.2	1738.2	1741.1
55°	1495.8	1531.3	1610.9	1622.2	1617.5
57.5°	1375.1	1418.1	1491.1	1496.7	1501.4
60°	1257.1	1294.5	1365.7	1373.2	1362.9
62.5°	1128.9	1167.2	1240.3	1242.1	1233.7
65°	1007.1	1036.2	1110.1	1108.3	1102.6
67.5°	879.8	915.4	969.8	971.6	967.0
70°	761.0	785.3	837.8	838.7	827.5
72.5°	632.8	659.0	701.1	695.5	692.7
75°	508.3	528.9	561.7	565.4	556.0
77.5°	394.1	409.0	433.4	430.6	420.3
80°	277.0	289.2	307.0	303.3	292.0
82.5°	176.9	184.4	195.7	191.0	186.3
85°	96.4	97.3	98.3	97.3	94.5
87.5°	35.6	36.5	36.5	35.6	32.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)