

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: P489025

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-5STD-27-120-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: P489025
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-115-8)
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-A12125-LD4-5STD-27-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

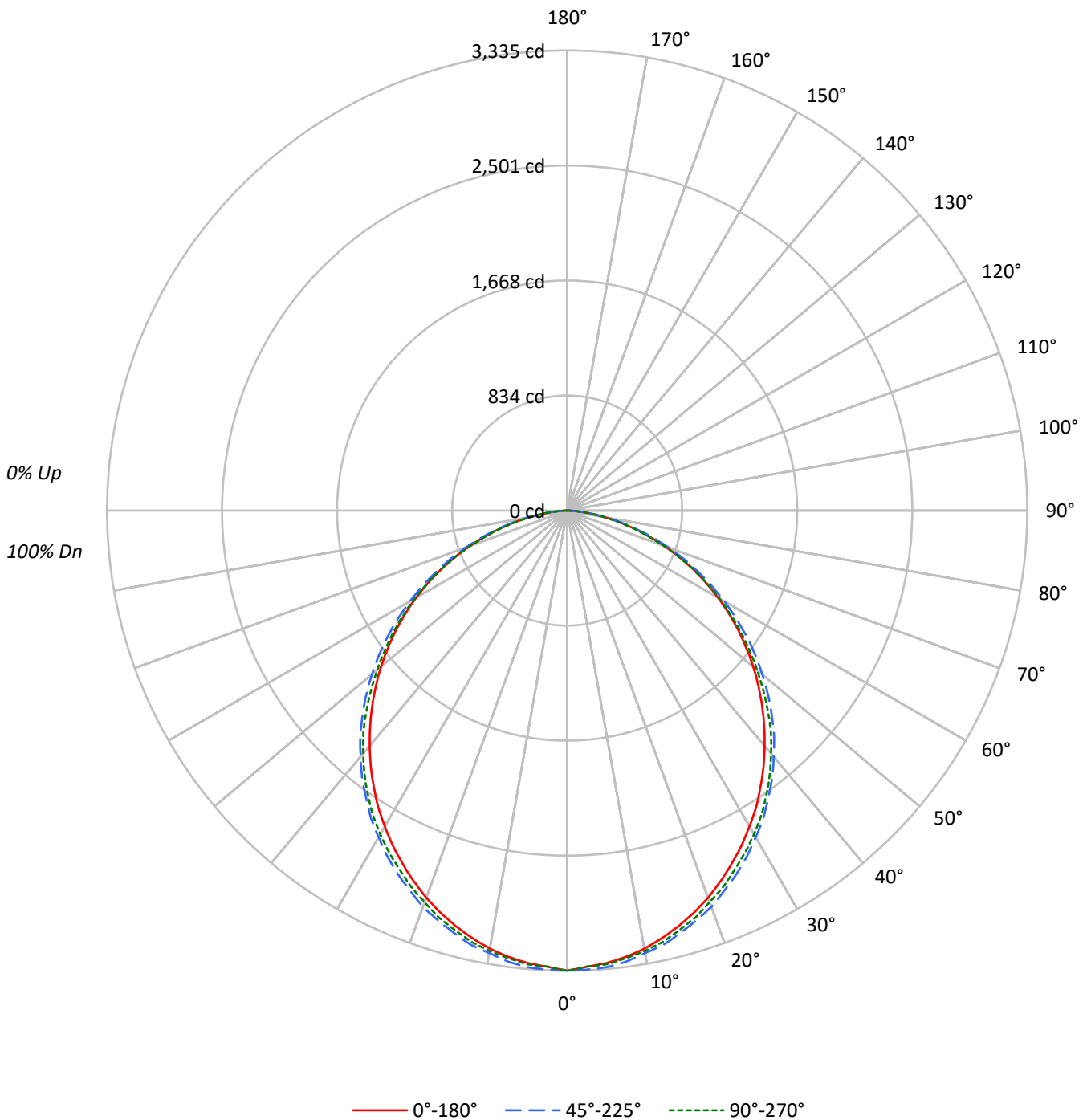
Lumens per Lamp: N/A
Luminaire Lumens: 8767.0 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8974	8974	8974
5°	8890	8974	8918
10°	8809	8898	8855
15°	8687	8827	8765
20°	8550	8753	8648
25°	8384	8627	8528
30°	8214	8493	8415
35°	8029	8348	8270
40°	7821	8181	8077
45°	7601	7985	7834
50°	7373	7729	7527
55°	7105	7438	7210
60°	6803	7085	6866
65°	6411	6656	6416
70°	5899	6137	5833
75°	5194	5429	5115
80°	4221	4404	4173
85°	2939	3134	3057



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.1	3.6
10°-20°	890.0	10.2
20°-30°	1327.4	15.1
30°-40°	1572.9	17.9
40°-50°	1591.6	18.2
50°-60°	1390.0	15.9
60°-70°	1015.8	11.6
70°-80°	540.5	6.2
80°-90°	124.9	1.4
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°	2531.4	28.9
0°-40°	4104.3	46.8
0°-60°	7085.9	80.8
0°-90°	8767.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8767.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3335	3335	3335	3335	3335	
5°	3291	3298	3322	3330	3302	312
15°	3118	3139	3169	3188	3146	879
25°	2824	2858	2906	2916	2872	1301
35°	2444	2482	2541	2559	2518	1529
45°	1997	2033	2098	2100	2058	1541
55°	1514	1545	1585	1562	1537	1354
65°	1007	1027	1045	1025	1008	996
75°	500	511	522	503	492	531
85°	95	97	102	102	99	121
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3334.7	3334.7	3334.7	3334.7	3334.7
2.5°	3308.6	3319.4	3330.5	3335.3	3308.2
5°	3291.2	3297.5	3322.1	3329.8	3301.6
7.5°	3262.7	3272.1	3296.1	3299.6	3272.5
10°	3223.8	3240.5	3256.5	3273.9	3240.8
12.5°	3174.1	3196.7	3223.8	3227.0	3201.9
15°	3118.2	3139.1	3168.6	3187.7	3146.3
17.5°	3055.7	3075.8	3114.0	3117.5	3092.5
20°	2985.8	3010.8	3056.7	3064.7	3019.9
22.5°	2906.6	2940.3	2978.5	2986.2	2953.2
25°	2823.6	2858.3	2905.6	2916.3	2872.2
27.5°	2736.7	2770.1	2823.2	2830.9	2793.7
30°	2643.6	2674.9	2733.2	2746.1	2708.2
32.5°	2549.1	2580.4	2645.0	2655.8	2618.9
35°	2444.2	2482.4	2541.1	2558.8	2517.5
37.5°	2337.2	2374.4	2441.1	2457.0	2412.6
40°	2226.3	2263.2	2328.8	2342.0	2299.3
42.5°	2113.1	2149.9	2220.1	2222.2	2186.7
45°	1997.4	2032.8	2098.1	2099.9	2058.5
47.5°	1880.0	1915.7	1974.1	1967.5	1928.6
50°	1761.1	1795.2	1846.3	1833.1	1798.0
52.5°	1638.1	1671.1	1719.4	1697.9	1664.9
55°	1514.5	1545.0	1585.3	1562.4	1536.7
57.5°	1389.7	1420.7	1451.6	1428.3	1406.1
60°	1264.0	1291.1	1316.4	1292.8	1275.8
62.5°	1136.1	1159.4	1181.3	1158.7	1142.7
65°	1006.9	1027.4	1045.4	1024.6	1007.6
67.5°	878.3	895.7	912.4	890.8	873.1
70°	749.8	764.7	780.0	757.7	741.4
72.5°	622.9	636.1	649.7	628.2	613.9
75°	499.6	511.1	522.2	503.1	492.0
77.5°	381.8	391.6	399.2	387.0	376.3
80°	272.4	279.7	284.2	279.3	269.3
82.5°	175.1	180.3	182.7	182.4	175.8
85°	95.2	96.9	101.5	102.5	99.0
87.5°	36.8	39.3	40.3	43.4	40.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)