

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: P489857

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-3STD-35-120-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: P489857
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-24-4-INS-P12125-LD4-3STD-35-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

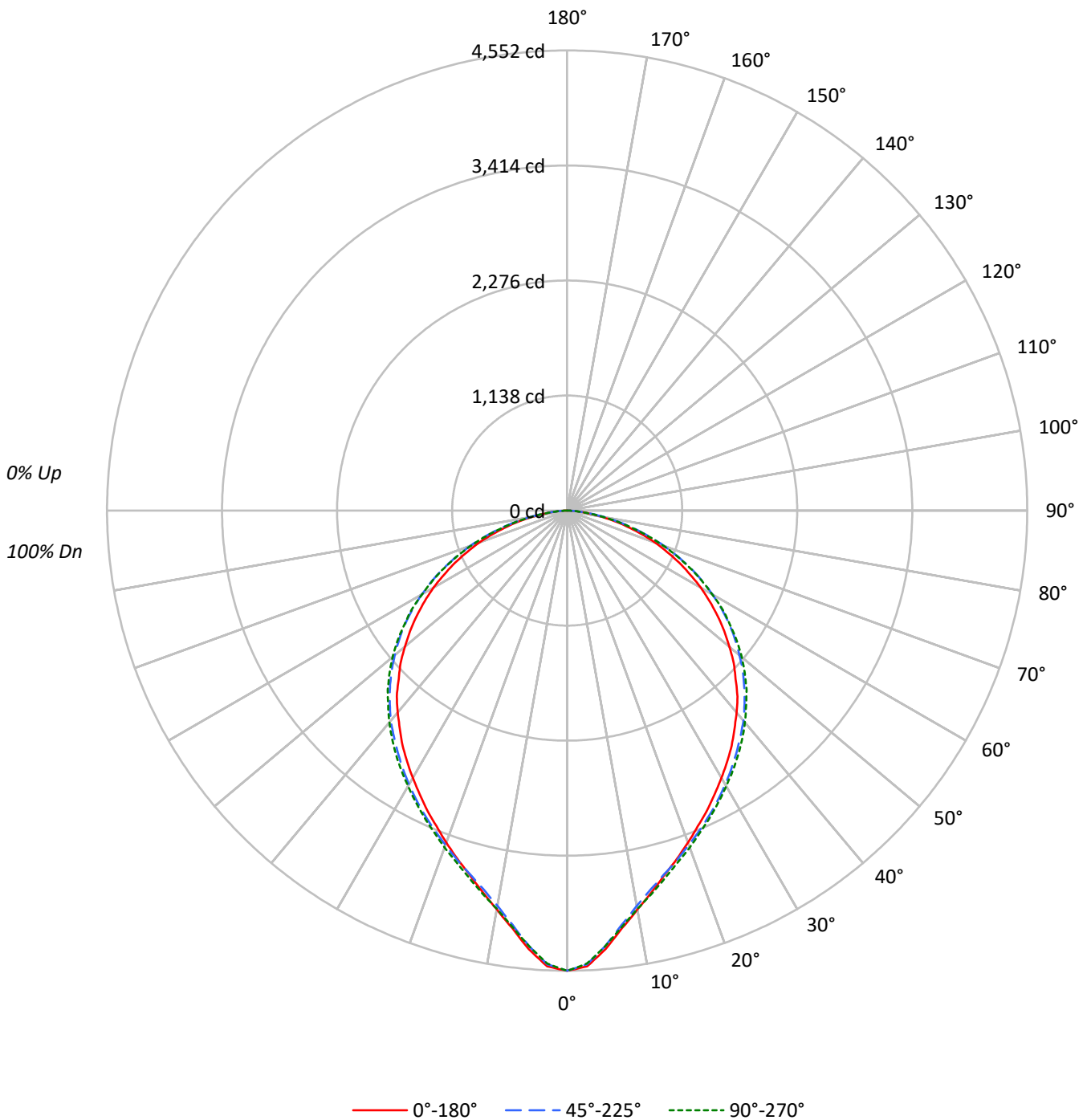
Lumens per Lamp: N/A
Luminaire Lumens: 10573.8 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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°	6125	6125	6125
5°	5881	5839	5839
10°	5473	5424	5466
15°	5194	5184	5235
20°	5003	5039	5078
25°	4860	4939	4968
30°	4743	4860	4890
35°	4662	4798	4846
40°	4579	4765	4805
45°	4485	4718	4775
50°	4386	4660	4721
55°	4264	4592	4611
60°	4111	4466	4457
65°	3897	4295	4266
70°	3638	4005	3956
75°	3211	3548	3513
80°	2609	2891	2749
85°	1809	1843	1774



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.2	3.8
10°-20°	1053.6	10.0
20°-30°	1532.2	14.5
30°-40°	1823.2	17.2
40°-50°	1893.2	17.9
50°-60°	1715.1	16.2
60°-70°	1294.2	12.2
70°-80°	705.2	6.7
80°-90°	154.9	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°	2988.0	28.3
0°-40°	4811.2	45.5
0°-60°	8419.5	79.6
0°-90°	10573.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10573.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4552	4552	4552	4552	4552	
5°	4354	4344	4324	4321	4324	404
15°	3729	3720	3722	3747	3758	1052
25°	3274	3301	3327	3354	3346	1509
35°	2838	2872	2921	2965	2951	1774
45°	2357	2399	2480	2507	2509	1822
55°	1818	1861	1958	1971	1966	1623
65°	1224	1259	1349	1347	1340	1210
75°	618	643	682	687	676	658
85°	117	118	119	118	115	148
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4552.2	4552.2	4552.2	4552.2	4552.2
2.5°	4512.4	4507.8	4493.0	4487.3	4486.2
5°	4354.3	4344.0	4323.5	4321.3	4323.5
7.5°	4165.4	4154.0	4133.6	4141.6	4151.8
10°	4006.2	3977.8	3969.7	3981.1	4000.5
12.5°	3864.0	3841.2	3834.4	3864.0	3877.7
15°	3728.6	3719.5	3721.8	3746.9	3758.2
17.5°	3611.5	3605.8	3620.6	3639.9	3645.6
20°	3494.3	3505.7	3519.4	3539.9	3546.6
22.5°	3379.5	3401.0	3423.8	3451.1	3442.0
25°	3273.7	3300.9	3327.1	3354.4	3346.5
27.5°	3161.0	3192.8	3229.3	3258.9	3247.5
30°	3052.9	3092.8	3128.1	3164.4	3147.4
32.5°	2946.1	2983.6	3025.7	3070.1	3050.7
35°	2838.0	2872.1	2921.1	2965.4	2950.6
37.5°	2718.6	2760.6	2816.3	2855.0	2844.9
40°	2607.1	2645.8	2712.9	2737.9	2735.6
42.5°	2494.5	2526.4	2596.9	2625.3	2620.7
45°	2356.9	2398.9	2479.7	2507.0	2509.3
47.5°	2235.1	2270.4	2356.9	2378.4	2383.0
50°	2095.2	2139.6	2226.1	2252.2	2255.6
52.5°	1957.6	2005.3	2094.1	2112.3	2115.7
55°	1817.6	1860.9	1957.6	1971.3	1965.6
57.5°	1671.0	1723.3	1812.0	1818.8	1824.5
60°	1527.6	1573.1	1659.6	1668.6	1656.2
62.5°	1371.8	1418.4	1507.2	1509.4	1499.2
65°	1223.9	1259.2	1349.0	1346.8	1339.9
67.5°	1069.2	1112.4	1178.4	1180.7	1175.1
70°	924.7	954.3	1018.0	1019.2	1005.6
72.5°	769.0	800.8	851.9	845.2	841.8
75°	617.6	642.7	682.5	687.1	675.7
77.5°	478.9	497.1	526.7	523.3	510.7
80°	336.7	351.5	373.1	368.6	354.8
82.5°	214.9	224.1	237.8	232.1	226.3
85°	117.2	118.2	119.4	118.2	114.9
87.5°	43.2	44.4	44.4	43.2	39.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)