

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: P489878

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-4LO-30-120-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: P489878
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-LD4-4LO-30-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

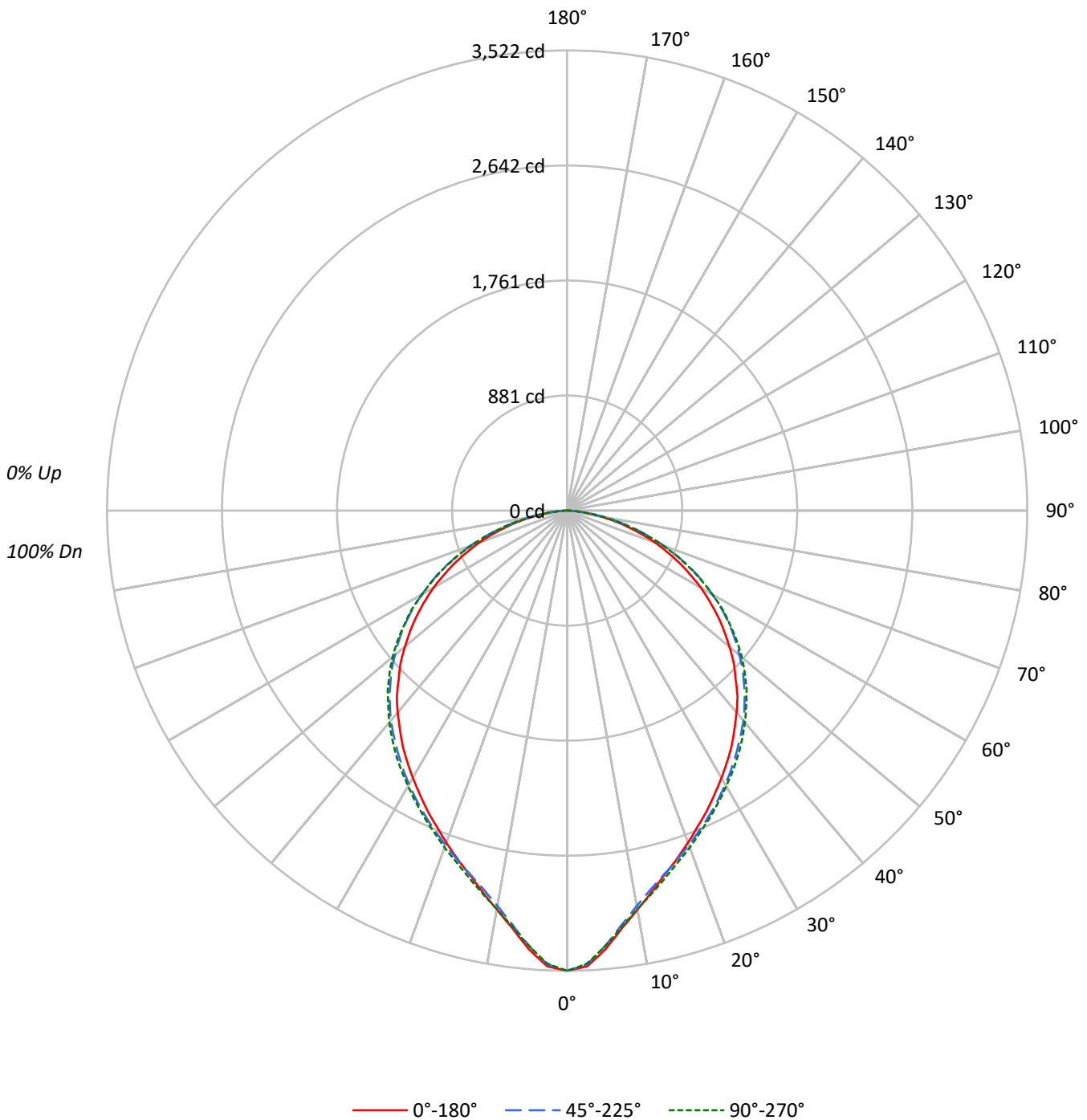
Lumens per Lamp: N/A
Luminaire Lumens: 8180.4 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 93.6
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°	4739	4739	4739
5°	4550	4518	4518
10°	4235	4196	4229
15°	4018	4011	4050
20°	3871	3898	3929
25°	3760	3821	3844
30°	3670	3760	3783
35°	3606	3712	3750
40°	3543	3686	3717
45°	3470	3650	3694
50°	3393	3605	3653
55°	3299	3553	3567
60°	3180	3455	3448
65°	3015	3323	3300
70°	2814	3098	3060
75°	2484	2745	2717
80°	2018	2237	2127
85°	1400	1426	1372



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.2	3.8
10°-20°	815.1	10.0
20°-30°	1185.3	14.5
30°-40°	1410.5	17.2
40°-50°	1464.6	17.9
50°-60°	1326.9	16.2
60°-70°	1001.2	12.2
70°-80°	545.5	6.7
80°-90°	119.9	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°	2311.7	28.3
0°-40°	3722.2	45.5
0°-60°	6513.7	79.6
0°-90°	8180.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8180.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3522	3522	3522	3522	3522	
5°	3369	3361	3345	3343	3345	313
15°	2885	2878	2879	2899	2908	814
25°	2533	2554	2574	2595	2589	1167
35°	2196	2222	2260	2294	2283	1373
45°	1823	1856	1918	1940	1941	1409
55°	1406	1440	1514	1525	1521	1256
65°	947	974	1044	1042	1037	936
75°	478	497	528	532	523	509
85°	91	92	92	92	89	114
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3521.8	3521.8	3521.8	3521.8	3521.8
2.5°	3491.0	3487.5	3476.0	3471.6	3470.7
5°	3368.7	3360.7	3344.9	3343.2	3344.9
7.5°	3222.6	3213.8	3198.0	3204.1	3212.0
10°	3099.4	3077.4	3071.2	3080.0	3095.0
12.5°	2989.3	2971.8	2966.5	2989.3	3000.0
15°	2884.6	2877.6	2879.4	2898.8	2907.5
17.5°	2794.0	2789.6	2801.1	2816.0	2820.4
20°	2703.4	2712.2	2722.7	2738.6	2743.8
22.5°	2614.5	2631.2	2648.8	2669.9	2662.9
25°	2532.7	2553.8	2574.0	2595.1	2589.0
27.5°	2445.5	2470.1	2498.3	2521.2	2512.4
30°	2361.9	2392.7	2420.0	2448.1	2435.0
32.5°	2279.2	2308.3	2340.8	2375.1	2360.2
35°	2195.6	2222.0	2259.9	2294.2	2282.8
37.5°	2103.2	2135.8	2178.9	2208.8	2200.9
40°	2017.0	2046.9	2098.8	2118.2	2116.4
42.5°	1929.8	1954.5	2009.1	2031.0	2027.5
45°	1823.4	1855.9	1918.4	1939.6	1941.3
47.5°	1729.2	1756.5	1823.4	1840.1	1843.6
50°	1621.0	1655.3	1722.2	1742.4	1745.1
52.5°	1514.5	1551.4	1620.1	1634.1	1636.8
55°	1406.2	1439.7	1514.5	1525.1	1520.7
57.5°	1292.7	1333.2	1401.9	1407.1	1411.5
60°	1181.8	1217.0	1283.9	1290.9	1281.3
62.5°	1061.3	1097.4	1166.0	1167.7	1159.8
65°	946.9	974.2	1043.6	1041.9	1036.6
67.5°	827.2	860.6	911.7	913.4	909.1
70°	715.4	738.3	787.6	788.5	777.9
72.5°	594.9	619.5	659.1	653.9	651.2
75°	477.8	497.2	528.0	531.5	522.7
77.5°	370.5	384.6	407.5	404.8	395.1
80°	260.5	271.9	288.7	285.1	274.5
82.5°	166.3	173.4	183.9	179.5	175.1
85°	90.7	91.5	92.4	91.5	88.9
87.5°	33.4	34.3	34.3	33.4	30.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)