

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: P489884

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-4LO-50-120-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: P489884
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-50-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

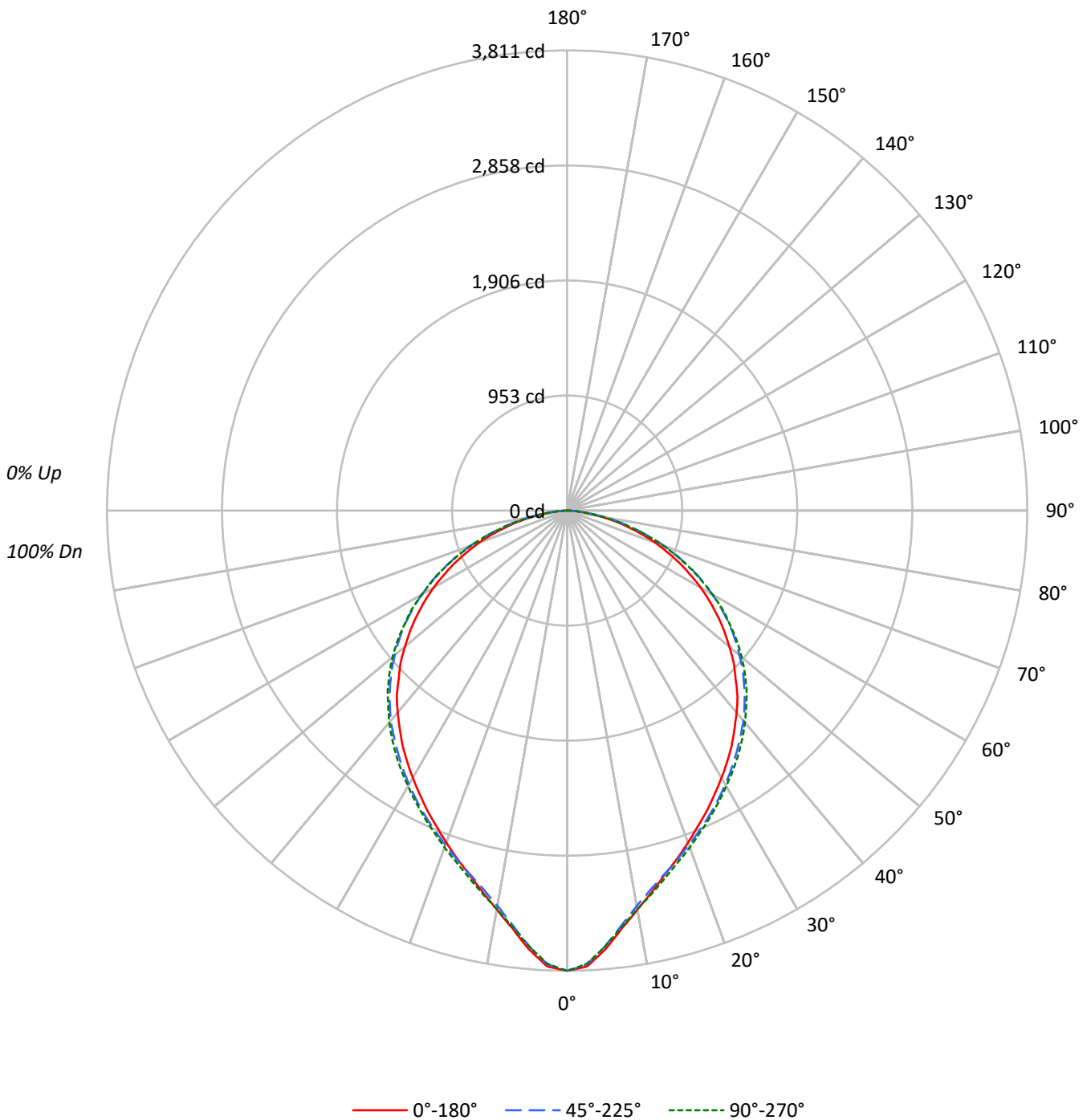
Lumens per Lamp: N/A
Luminaire Lumens: 8853.0 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	5128	5128	5128
5°	4924	4889	4889
10°	4583	4541	4576
15°	4349	4341	4383
20°	4189	4219	4252
25°	4069	4136	4160
30°	3971	4069	4094
35°	3903	4017	4058
40°	3834	3990	4023
45°	3755	3950	3998
50°	3672	3901	3953
55°	3570	3845	3860
60°	3442	3739	3731
65°	3262	3596	3571
70°	3046	3353	3312
75°	2688	2970	2941
80°	2184	2421	2302
85°	1514	1544	1485



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.8	3.8
10°-20°	882.2	10.0
20°-30°	1282.8	14.5
30°-40°	1526.5	17.2
40°-50°	1585.0	17.9
50°-60°	1436.0	16.2
60°-70°	1083.6	12.2
70°-80°	590.4	6.7
80°-90°	129.7	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°	2501.7	28.3
0°-40°	4028.3	45.5
0°-60°	7049.3	79.6
0°-90°	8853.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8853.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3811	3811	3811	3811	3811	
5°	3646	3637	3620	3618	3620	338
15°	3122	3114	3116	3137	3147	881
25°	2741	2764	2786	2808	2802	1263
35°	2376	2405	2446	2483	2470	1486
45°	1973	2008	2076	2099	2101	1525
55°	1522	1558	1639	1650	1646	1359
65°	1025	1054	1130	1128	1122	1013
75°	517	538	571	575	566	551
85°	98	99	100	99	96	124
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3811.4	3811.4	3811.4	3811.4	3811.4
2.5°	3778.0	3774.2	3761.8	3757.0	3756.1
5°	3645.6	3637.1	3619.9	3618.0	3619.9
7.5°	3487.5	3478.0	3460.9	3467.5	3476.1
10°	3354.2	3330.4	3323.7	3333.2	3349.4
12.5°	3235.1	3216.1	3210.4	3235.1	3246.6
15°	3121.8	3114.2	3116.1	3137.1	3146.6
17.5°	3023.8	3019.0	3031.4	3047.6	3052.3
20°	2925.6	2935.2	2946.6	2963.8	2969.4
22.5°	2829.5	2847.5	2866.6	2889.5	2881.9
25°	2740.9	2763.7	2785.7	2808.5	2801.9
27.5°	2646.6	2673.2	2703.8	2728.5	2719.0
30°	2556.1	2589.4	2619.0	2649.4	2635.2
32.5°	2466.6	2498.1	2533.3	2570.4	2554.2
35°	2376.1	2404.7	2445.7	2482.8	2470.4
37.5°	2276.2	2311.4	2358.0	2390.4	2381.9
40°	2182.8	2215.2	2271.4	2292.4	2290.4
42.5°	2088.5	2115.2	2174.2	2198.0	2194.2
45°	1973.3	2008.5	2076.1	2099.0	2100.9
47.5°	1871.4	1900.9	1973.3	1991.4	1995.2
50°	1754.3	1791.4	1863.8	1885.6	1888.6
52.5°	1639.0	1679.0	1753.3	1768.5	1771.4
55°	1521.8	1558.0	1639.0	1650.5	1645.7
57.5°	1399.0	1442.8	1517.1	1522.8	1527.6
60°	1279.0	1317.1	1389.5	1397.1	1386.6
62.5°	1148.6	1187.6	1261.9	1263.8	1255.2
65°	1024.7	1054.3	1129.5	1127.6	1121.8
67.5°	895.2	931.4	986.7	988.5	983.8
70°	774.2	799.0	852.4	853.3	841.9
72.5°	643.8	670.5	713.3	707.6	704.8
75°	517.1	538.1	571.4	575.3	565.7
77.5°	401.0	416.2	441.0	438.1	427.6
80°	281.9	294.3	312.4	308.6	297.1
82.5°	180.0	187.6	199.1	194.3	189.5
85°	98.1	99.0	100.0	99.0	96.2
87.5°	36.2	37.2	37.2	36.2	33.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)