

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: P489859

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-3STD-40-120-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: P489859
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-40-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

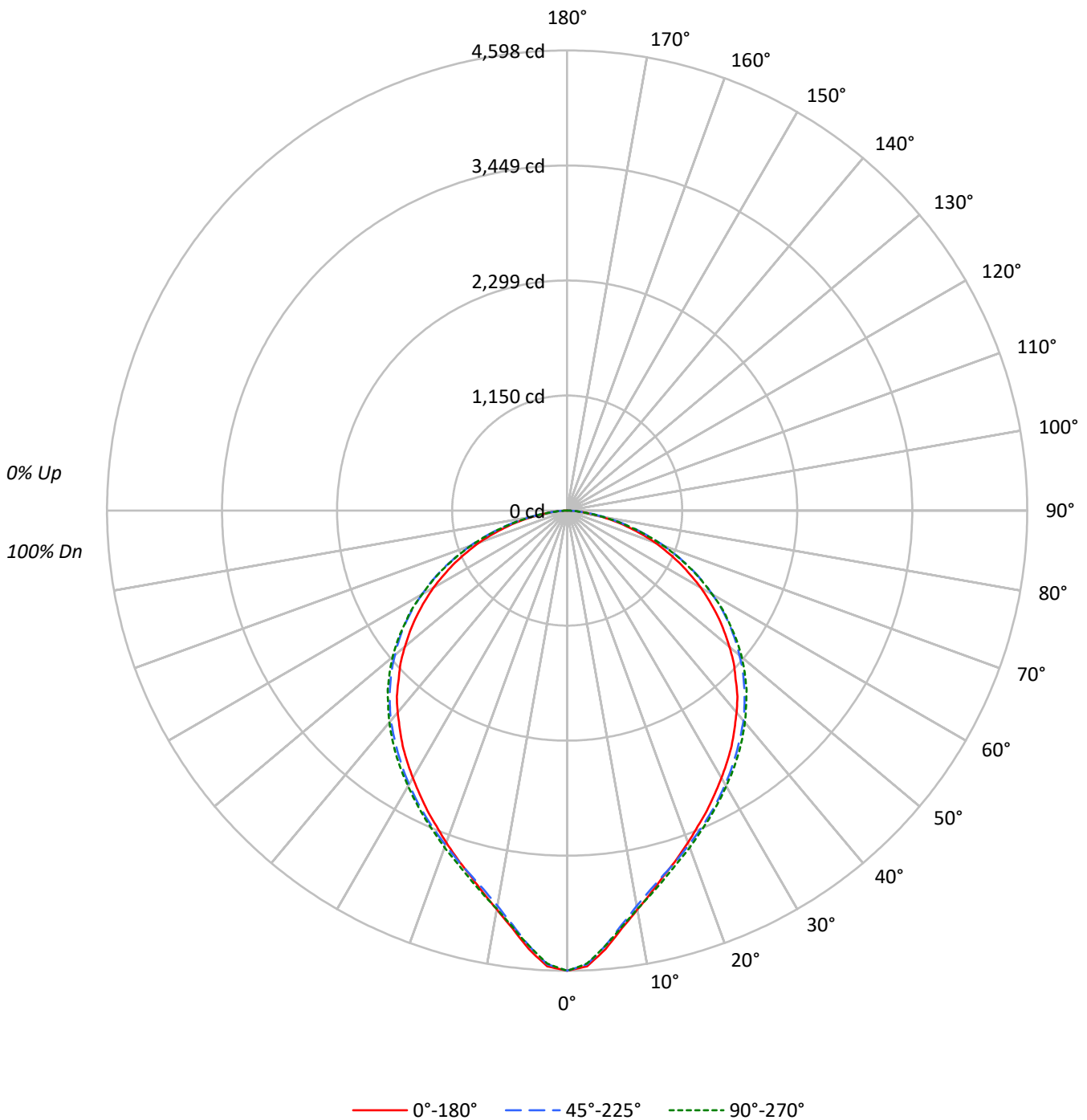
Lumens per Lamp: N/A
Luminaire Lumens: 10679.6 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	6186	6186	6186
5°	5940	5898	5898
10°	5528	5478	5520
15°	5246	5236	5287
20°	5053	5090	5129
25°	4909	4989	5018
30°	4791	4909	4939
35°	4708	4846	4895
40°	4625	4813	4853
45°	4530	4766	4822
50°	4430	4706	4769
55°	4306	4638	4657
60°	4152	4511	4501
65°	3935	4338	4308
70°	3674	4045	3995
75°	3243	3584	3548
80°	2634	2920	2777
85°	1828	1862	1791



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.3	3.8
10°-20°	1064.2	10.0
20°-30°	1547.5	14.5
30°-40°	1841.5	17.2
40°-50°	1912.1	17.9
50°-60°	1732.2	16.2
60°-70°	1307.1	12.2
70°-80°	712.2	6.7
80°-90°	156.5	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°	3017.9	28.3
0°-40°	4859.4	45.5
0°-60°	8503.7	79.6
0°-90°	10679.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10679.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4598	4598	4598	4598	4598	
5°	4398	4388	4367	4364	4367	408
15°	3766	3757	3759	3784	3796	1063
25°	3306	3334	3360	3388	3380	1524
35°	2866	2901	2950	2995	2980	1792
45°	2380	2423	2504	2532	2534	1840
55°	1836	1880	1977	1991	1985	1639
65°	1236	1272	1362	1360	1353	1222
75°	624	649	689	694	682	665
85°	118	119	121	119	116	149
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4597.7	4597.7	4597.7	4597.7	4597.7
2.5°	4557.5	4552.9	4538.0	4532.2	4531.0
5°	4397.8	4387.5	4366.8	4364.5	4366.8
7.5°	4207.1	4195.6	4175.0	4183.0	4193.3
10°	4046.3	4017.6	4009.5	4021.0	4040.5
12.5°	3902.6	3879.7	3872.7	3902.6	3916.5
15°	3765.9	3756.7	3759.1	3784.4	3795.8
17.5°	3647.6	3641.9	3656.8	3676.4	3682.1
20°	3529.3	3540.8	3554.6	3575.3	3582.1
22.5°	3413.3	3435.0	3458.1	3485.6	3476.5
25°	3306.4	3334.0	3360.4	3388.0	3380.0
27.5°	3192.7	3224.8	3261.6	3291.5	3280.0
30°	3083.5	3123.7	3159.4	3196.1	3178.9
32.5°	2975.6	3013.5	3055.9	3100.8	3081.2
35°	2866.4	2900.9	2950.3	2995.1	2980.2
37.5°	2745.8	2788.3	2844.5	2883.6	2873.3
40°	2633.2	2672.3	2740.0	2765.3	2763.0
42.5°	2519.4	2551.7	2622.8	2651.6	2647.0
45°	2380.5	2422.9	2504.5	2532.1	2534.4
47.5°	2257.5	2293.2	2380.5	2402.2	2406.8
50°	2116.2	2161.0	2248.3	2274.7	2278.2
52.5°	1977.1	2025.4	2115.0	2133.4	2136.9
55°	1835.8	1879.5	1977.1	1991.0	1985.2
57.5°	1687.7	1740.5	1830.2	1837.0	1842.8
60°	1542.9	1588.9	1676.2	1685.3	1672.7
62.5°	1385.5	1432.6	1522.3	1524.5	1514.2
65°	1236.1	1271.8	1362.5	1360.2	1353.3
67.5°	1079.9	1123.5	1190.2	1192.5	1186.8
70°	934.0	963.9	1028.2	1029.4	1015.6
72.5°	776.7	808.8	860.4	853.6	850.2
75°	623.8	649.1	689.4	693.9	682.4
77.5°	483.7	502.0	531.9	528.5	515.8
80°	340.0	355.0	376.9	372.3	358.4
82.5°	217.1	226.4	240.1	234.4	228.6
85°	118.4	119.4	120.6	119.4	116.0
87.5°	43.7	44.8	44.8	43.7	40.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)