

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: P488827

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-3HI-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: P488827
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-12-4-INS-P12125-LD4-3HI-40-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

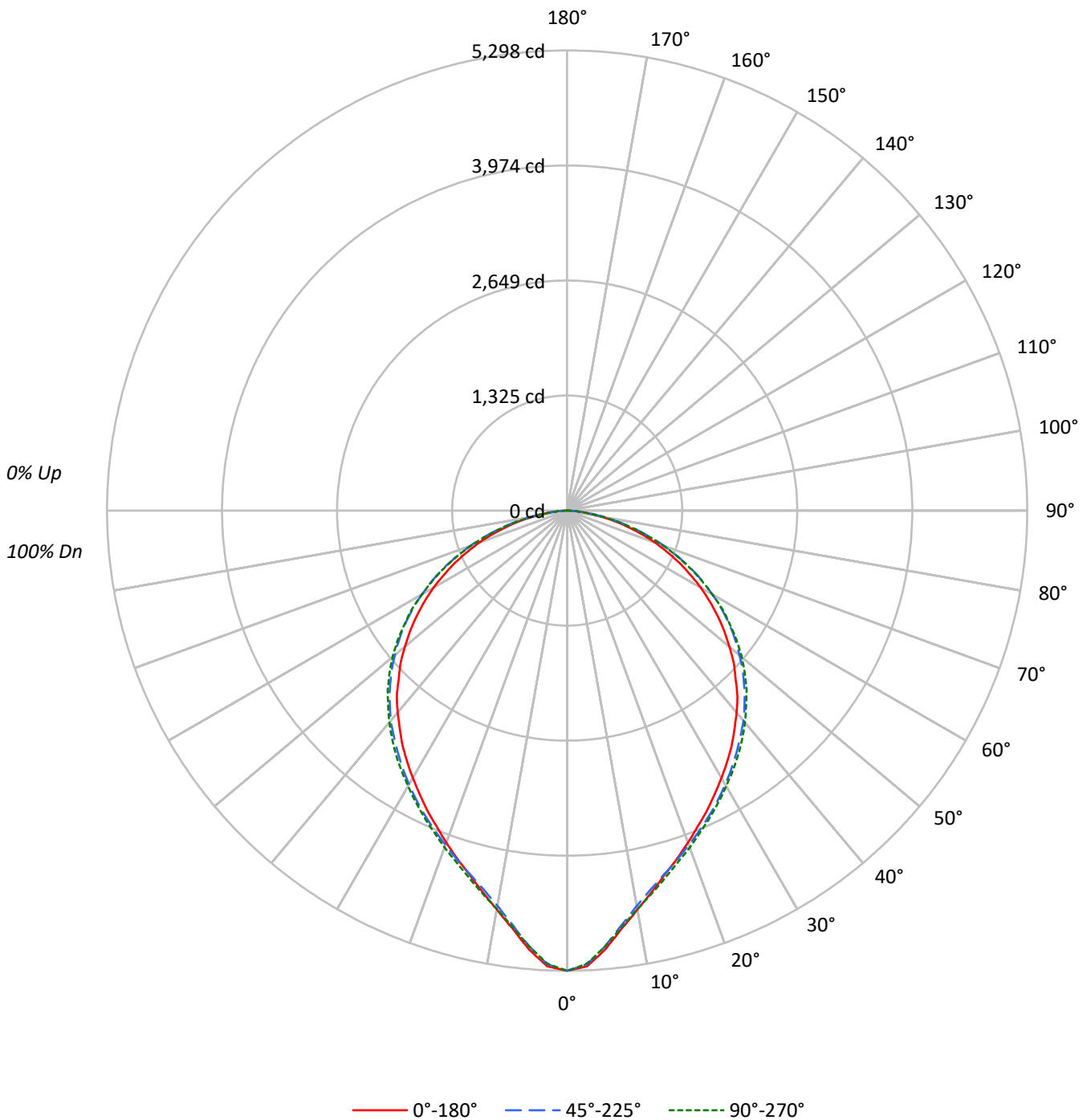
Lumens per Lamp: N/A
Luminaire Lumens: 12306.4 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 129.6
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°	14257	14257	14257
5°	13689	13593	13593
10°	12741	12625	12722
15°	12090	12068	12186
20°	11646	11730	11821
25°	11313	11498	11564
30°	11041	11312	11382
35°	10851	11168	11281
40°	10659	11091	11184
45°	10439	10983	11114
50°	10209	10846	10991
55°	9925	10689	10733
60°	9569	10395	10374
65°	9070	9997	9930
70°	8468	9322	9208
75°	7475	8259	8176
80°	6072	6730	6400
85°	4211	4292	4128



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	468.2	3.8
10°-20°	1226.3	10.0
20°-30°	1783.2	14.5
30°-40°	2122.0	17.2
40°-50°	2203.4	17.9
50°-60°	1996.1	16.2
60°-70°	1506.3	12.2
70°-80°	820.7	6.7
80°-90°	180.3	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°	3477.6	28.3
0°-40°	5599.6	45.5
0°-60°	9799.1	79.6
0°-90°	12306.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12306.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5298	5298	5298	5298	5298	
5°	5068	5056	5032	5029	5032	470
15°	4340	4329	4332	4361	4374	1225
25°	3810	3842	3872	3904	3895	1756
35°	3303	3343	3400	3451	3434	2065
45°	2743	2792	2886	2918	2920	2120
55°	2116	2166	2278	2294	2288	1889
65°	1424	1466	1570	1568	1560	1408
75°	719	748	794	800	786	766
85°	136	138	139	138	134	172
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5298.1	5298.1	5298.1	5298.1	5298.1
2.5°	5251.7	5246.4	5229.2	5222.6	5221.2
5°	5067.7	5055.8	5032.0	5029.4	5032.0
7.5°	4848.0	4834.7	4811.0	4820.2	4832.1
10°	4662.6	4629.6	4620.2	4633.5	4656.0
12.5°	4497.1	4470.7	4462.7	4497.1	4513.1
15°	4339.6	4329.0	4331.7	4360.8	4374.0
17.5°	4203.3	4196.6	4213.9	4236.4	4243.0
20°	4066.9	4080.2	4096.0	4119.9	4127.8
22.5°	3933.2	3958.3	3984.9	4016.6	4006.0
25°	3810.1	3841.8	3872.3	3904.1	3894.8
27.5°	3679.0	3716.0	3758.4	3792.9	3779.6
30°	3553.2	3599.5	3640.6	3682.9	3663.1
32.5°	3428.8	3472.5	3521.5	3573.1	3550.6
35°	3303.0	3342.8	3399.7	3451.3	3434.1
37.5°	3164.1	3213.0	3277.8	3322.8	3311.0
40°	3034.3	3079.3	3157.4	3186.6	3183.9
42.5°	2903.2	2940.3	3022.4	3055.5	3050.2
45°	2743.1	2792.0	2886.0	2917.8	2920.4
47.5°	2601.4	2642.5	2743.1	2768.2	2773.5
50°	2438.6	2490.2	2590.8	2621.2	2625.3
52.5°	2278.3	2333.9	2437.2	2458.4	2462.4
55°	2115.5	2165.8	2278.3	2294.3	2287.7
57.5°	1944.8	2005.7	2109.0	2116.8	2123.5
60°	1777.9	1830.9	1931.5	1942.1	1927.6
62.5°	1596.6	1650.8	1754.1	1756.7	1744.8
65°	1424.4	1465.5	1570.0	1567.5	1559.5
67.5°	1244.4	1294.7	1371.5	1374.1	1367.6
70°	1076.3	1110.7	1184.8	1186.2	1170.3
72.5°	895.0	932.0	991.5	983.6	979.7
75°	718.9	748.0	794.4	799.6	786.4
77.5°	557.4	578.5	613.0	609.0	594.4
80°	391.8	409.1	434.3	429.0	413.0
82.5°	250.2	260.8	276.7	270.1	263.4
85°	136.4	137.6	139.0	137.6	133.7
87.5°	50.3	51.7	51.7	50.3	46.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)