

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: P488825

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-3HI-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: P488825
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-35-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

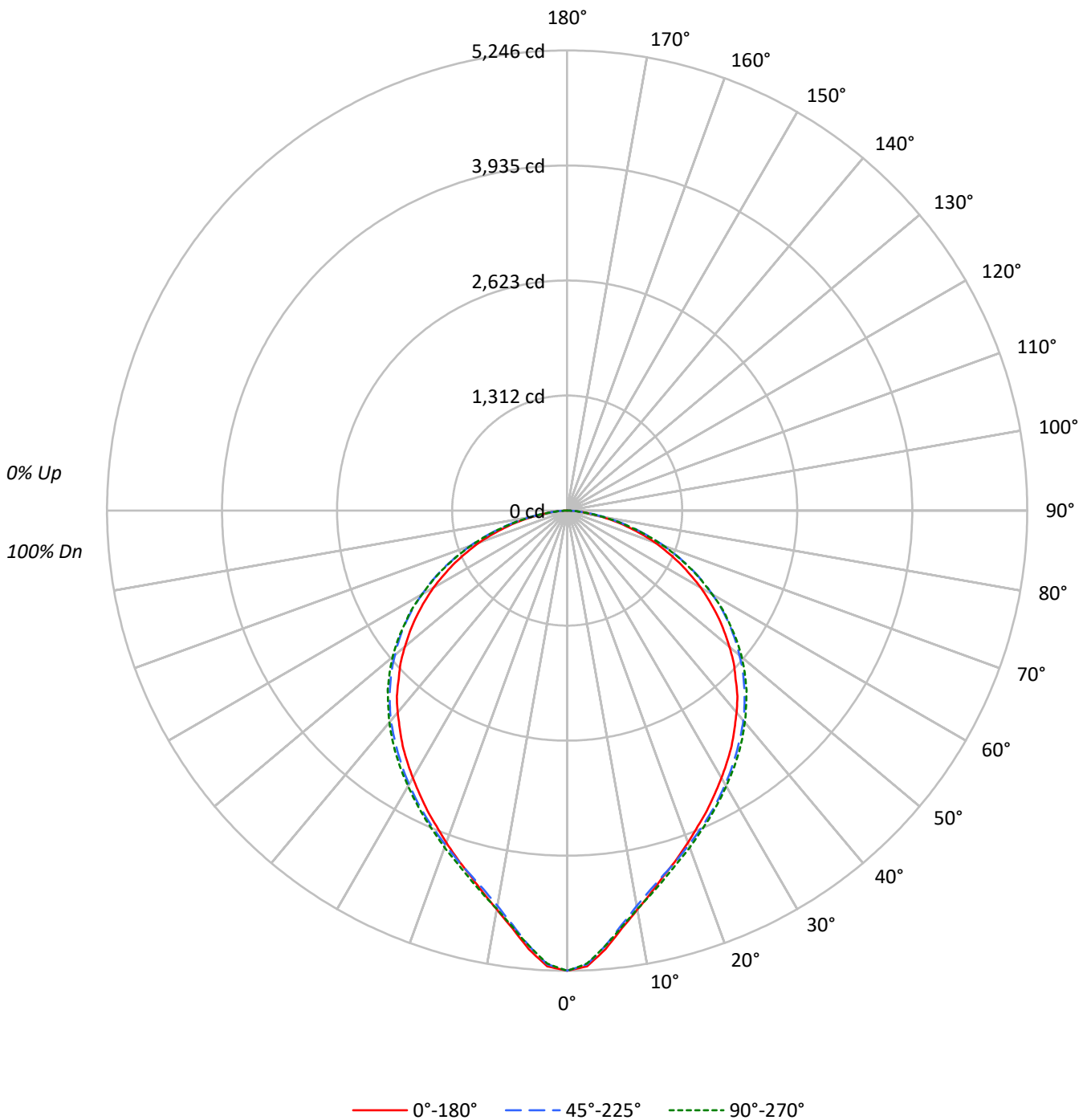
Lumens per Lamp: N/A
Luminaire Lumens: 12184.5 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	14116	14116	14116
5°	13554	13458	13458
10°	12614	12500	12597
15°	11970	11948	12065
20°	11531	11614	11704
25°	11201	11384	11450
30°	10931	11200	11269
35°	10743	11058	11170
40°	10553	10981	11073
45°	10336	10874	11004
50°	10108	10739	10881
55°	9827	10583	10626
60°	9474	10292	10271
65°	8980	9898	9831
70°	8384	9230	9117
75°	7400	8177	8095
80°	6013	6664	6337
85°	4168	4248	4088



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	463.5	3.8
10°-20°	1214.1	10.0
20°-30°	1765.6	14.5
30°-40°	2101.0	17.2
40°-50°	2181.5	17.9
50°-60°	1976.4	16.2
60°-70°	1491.3	12.2
70°-80°	812.6	6.7
80°-90°	178.6	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°	3443.2	28.3
0°-40°	5544.2	45.5
0°-60°	9702.0	79.6
0°-90°	12184.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12184.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5246	5246	5246	5246	5246	
5°	5018	5006	4982	4980	4982	466
15°	4297	4286	4289	4318	4331	1213
25°	3772	3804	3834	3865	3856	1738
35°	3270	3310	3366	3417	3400	2045
45°	2716	2764	2857	2889	2892	2099
55°	2094	2144	2256	2272	2265	1870
65°	1410	1451	1554	1552	1544	1394
75°	712	741	786	792	779	758
85°	135	136	138	136	132	170
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5245.6	5245.6	5245.6	5245.6	5245.6
2.5°	5199.7	5194.5	5177.4	5170.9	5169.5
5°	5017.6	5005.7	4982.1	4979.6	4982.1
7.5°	4800.0	4786.8	4763.3	4772.4	4784.2
10°	4616.4	4583.7	4574.4	4587.6	4609.9
12.5°	4452.6	4426.4	4418.5	4452.6	4468.4
15°	4296.6	4286.1	4288.8	4317.6	4330.7
17.5°	4161.6	4155.1	4172.1	4194.4	4201.0
20°	4026.6	4039.8	4055.5	4079.1	4086.9
22.5°	3894.2	3919.1	3945.4	3976.8	3966.3
25°	3772.4	3803.8	3834.0	3865.4	3856.3
27.5°	3642.6	3679.2	3721.2	3755.3	3742.2
30°	3518.0	3563.9	3604.6	3646.5	3626.8
32.5°	3394.9	3438.1	3486.6	3537.7	3515.4
35°	3270.3	3309.6	3366.0	3417.2	3400.1
37.5°	3132.7	3181.2	3245.4	3289.9	3278.2
40°	3004.2	3048.8	3126.1	3155.0	3152.3
42.5°	2874.4	2911.2	2992.4	3025.2	3020.0
45°	2715.9	2764.4	2857.4	2888.9	2891.5
47.5°	2575.6	2616.3	2715.9	2740.7	2746.0
50°	2414.4	2465.5	2565.2	2595.2	2599.2
52.5°	2255.7	2310.8	2413.1	2434.0	2438.0
55°	2094.5	2144.3	2255.7	2271.6	2265.0
57.5°	1925.5	1985.8	2088.1	2095.9	2102.4
60°	1760.3	1812.8	1912.4	1922.8	1908.5
62.5°	1580.8	1634.5	1736.8	1739.3	1727.5
65°	1410.3	1451.0	1554.5	1551.9	1544.0
67.5°	1232.0	1281.9	1357.9	1360.5	1354.1
70°	1065.6	1099.7	1173.1	1174.4	1158.7
72.5°	886.1	922.8	981.7	973.9	970.0
75°	711.7	740.6	786.5	791.7	778.6
77.5°	551.8	572.8	606.9	603.0	588.5
80°	388.0	405.0	430.0	424.7	408.9
82.5°	247.7	258.3	274.0	267.4	260.8
85°	135.0	136.3	137.6	136.3	132.4
87.5°	49.8	51.1	51.1	49.8	45.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)