

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: P488828

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-3HI-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: P488828
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-50-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

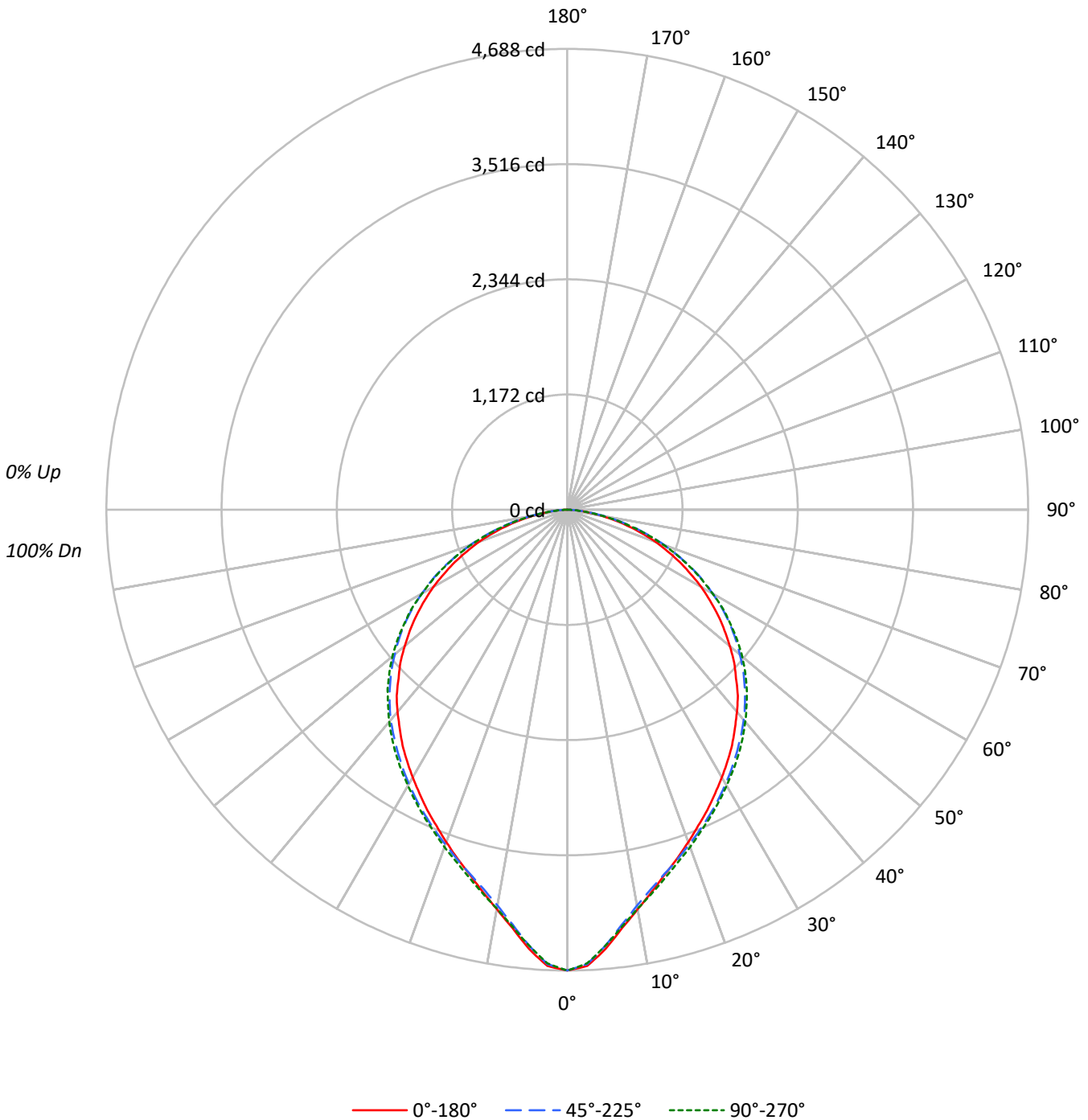
Lumens per Lamp: N/A
Luminaire Lumens: 10888.2 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 129.6
Input Voltage (V): NR
Input Current (A_{in}): 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°	12614	12614	12614
5°	12112	12026	12026
10°	11272	11170	11256
15°	10696	10677	10781
20°	10304	10378	10458
25°	10009	10173	10232
30°	9768	10009	10071
35°	9600	9881	9981
40°	9431	9813	9895
45°	9236	9717	9833
50°	9032	9596	9724
55°	8781	9457	9496
60°	8466	9197	9178
65°	8025	8845	8785
70°	7492	8248	8147
75°	6613	7307	7233
80°	5373	5954	5663
85°	3727	3798	3653



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.2	3.8
10°-20°	1085.0	10.0
20°-30°	1577.7	14.5
30°-40°	1877.4	17.2
40°-50°	1949.4	17.9
50°-60°	1766.1	16.2
60°-70°	1332.7	12.2
70°-80°	726.1	6.7
80°-90°	159.6	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°	3076.9	28.3
0°-40°	4954.3	45.5
0°-60°	8669.8	79.6
0°-90°	10888.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10888.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4688	4688	4688	4688	4688	
5°	4484	4473	4452	4450	4452	416
15°	3840	3830	3832	3858	3870	1084
25°	3371	3399	3426	3454	3446	1553
35°	2922	2958	3008	3054	3038	1827
45°	2427	2470	2553	2582	2584	1876
55°	1872	1916	2016	2030	2024	1671
65°	1260	1297	1389	1387	1380	1246
75°	636	662	703	708	696	677
85°	121	122	123	122	118	152
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4687.5	4687.5	4687.5	4687.5	4687.5
2.5°	4646.5	4641.8	4626.6	4620.7	4619.5
5°	4483.7	4473.2	4452.1	4449.8	4452.1
7.5°	4289.3	4277.5	4256.5	4264.7	4275.3
10°	4125.3	4096.0	4087.8	4099.5	4119.4
12.5°	3978.9	3955.5	3948.4	3978.9	3993.0
15°	3839.5	3830.1	3832.5	3858.3	3869.9
17.5°	3718.9	3713.0	3728.3	3748.2	3754.0
20°	3598.2	3610.0	3624.0	3645.1	3652.1
22.5°	3479.9	3502.1	3525.6	3553.7	3544.4
25°	3371.0	3399.1	3426.1	3454.2	3446.0
27.5°	3255.0	3287.8	3325.3	3355.8	3344.0
30°	3143.7	3184.7	3221.1	3258.5	3241.0
32.5°	3033.7	3072.3	3115.6	3161.3	3141.4
35°	2922.4	2957.5	3007.9	3053.6	3038.4
37.5°	2799.4	2842.7	2900.1	2939.9	2929.5
40°	2684.6	2724.5	2793.5	2819.3	2816.9
42.5°	2568.6	2601.5	2674.1	2703.3	2698.7
45°	2427.0	2470.3	2553.4	2581.6	2583.9
47.5°	2301.6	2337.9	2427.0	2449.2	2453.8
50°	2157.5	2203.2	2292.2	2319.1	2322.7
52.5°	2015.8	2064.9	2156.3	2175.1	2178.6
55°	1871.7	1916.2	2015.8	2029.9	2024.0
57.5°	1720.7	1774.5	1865.9	1872.9	1878.8
60°	1573.0	1619.9	1708.9	1718.3	1705.4
62.5°	1412.6	1460.6	1552.0	1554.3	1543.7
65°	1260.3	1296.6	1389.1	1386.8	1379.7
67.5°	1101.0	1145.5	1213.5	1215.8	1210.0
70°	952.2	982.7	1048.3	1049.5	1035.5
72.5°	791.8	824.6	877.3	870.3	866.8
75°	636.0	661.8	702.8	707.5	695.7
77.5°	493.1	511.9	542.3	538.8	525.9
80°	346.7	361.9	384.2	379.5	365.4
82.5°	221.3	230.8	244.8	239.0	233.1
85°	120.7	121.8	123.0	121.8	118.3
87.5°	44.5	45.7	45.7	44.5	41.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)