

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: P488824

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-3HI-35-120-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: P488824
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-90
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

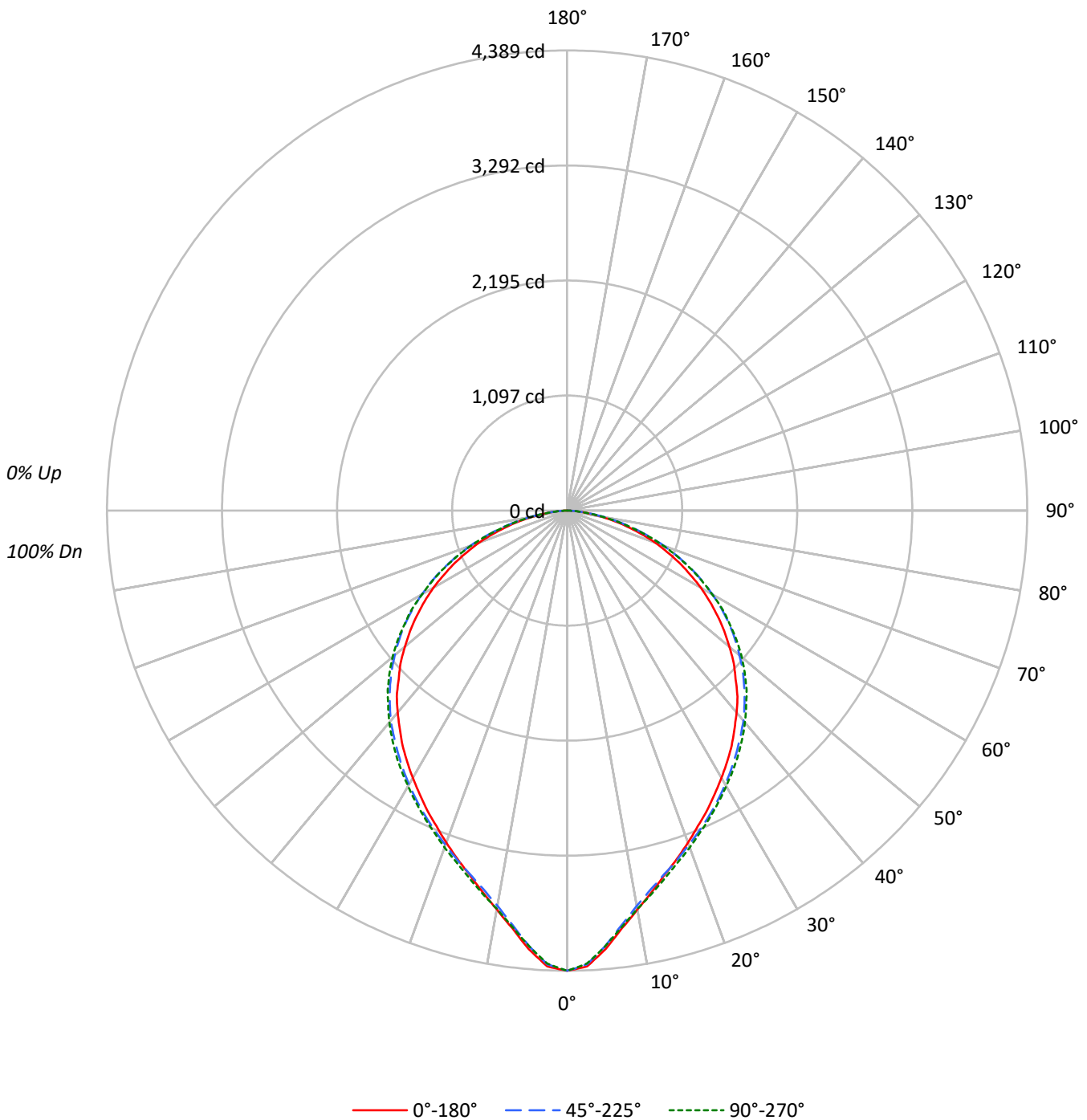
Lumens per Lamp: N/A
Luminaire Lumens: 10195.4 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P488824

CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-3HI-35-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P488824

CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-3HI-35-120-EDD-90

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	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					100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70					70			
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59					59			
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51					51			
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44					44			
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38					38			
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30					30			
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27					27			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11812	11812	11812
5°	11341	11261	11261
10°	10555	10459	10540
15°	10016	9998	10095
20°	9649	9718	9793
25°	9372	9525	9581
30°	9147	9372	9430
35°	8989	9252	9346
40°	8831	9189	9266
45°	8648	9099	9208
50°	8458	8986	9105
55°	8222	8855	8891
60°	7927	8612	8594
65°	7514	8282	8227
70°	7015	7723	7629
75°	6191	6842	6774
80°	5030	5576	5301
85°	3489	3554	3421



TEST NUMBER: P488824

CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-3HI-35-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.9	3.8
10°-20°	1015.9	10.0
20°-30°	1477.3	14.5
30°-40°	1758.0	17.2
40°-50°	1825.4	17.9
50°-60°	1653.7	16.2
60°-70°	1247.9	12.2
70°-80°	679.9	6.7
80°-90°	149.4	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°	2881.1	28.3
0°-40°	4639.1	45.5
0°-60°	8118.2	79.6
0°-90°	10195.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10195.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4389	4389	4389	4389	4389	
5°	4198	4189	4169	4167	4169	390
15°	3595	3586	3589	3613	3624	1015
25°	3156	3183	3208	3234	3227	1455
35°	2736	2769	2816	2859	2845	1711
45°	2272	2313	2391	2417	2420	1757
55°	1753	1794	1888	1901	1895	1565
65°	1180	1214	1301	1299	1292	1167
75°	596	620	658	662	652	634
85°	113	114	115	114	111	143
90°	0	0	0	0	0	



TEST NUMBER: P488824

CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-3HI-35-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4389.3	4389.3	4389.3	4389.3	4389.3
2.5°	4350.9	4346.5	4332.2	4326.7	4325.6
5°	4198.4	4188.6	4168.8	4166.7	4168.8
7.5°	4016.4	4005.4	3985.7	3993.3	4003.2
10°	3862.8	3835.4	3827.7	3838.7	3857.3
12.5°	3725.7	3703.8	3697.2	3725.7	3738.9
15°	3595.2	3586.4	3588.6	3612.8	3623.7
17.5°	3482.3	3476.8	3491.0	3509.7	3515.2
20°	3369.3	3380.3	3393.4	3413.2	3419.7
22.5°	3258.5	3279.3	3301.3	3327.6	3318.8
25°	3156.5	3182.8	3208.1	3234.4	3226.7
27.5°	3047.9	3078.6	3113.7	3142.3	3131.3
30°	2943.7	2982.1	3016.1	3051.2	3034.8
32.5°	2840.7	2876.8	2917.4	2960.2	2941.5
35°	2736.4	2769.3	2816.5	2859.3	2845.0
37.5°	2621.3	2661.9	2715.6	2752.8	2743.1
40°	2513.8	2551.1	2615.8	2639.9	2637.7
42.5°	2405.2	2436.0	2503.9	2531.3	2527.0
45°	2272.5	2313.1	2390.9	2417.3	2419.5
47.5°	2155.2	2189.2	2272.5	2293.3	2297.7
50°	2020.3	2063.0	2146.4	2171.6	2174.9
52.5°	1887.5	1933.6	2019.1	2036.7	2040.0
55°	1752.6	1794.3	1887.5	1900.7	1895.2
57.5°	1611.2	1661.6	1747.2	1753.7	1759.2
60°	1472.9	1516.8	1600.2	1608.9	1596.9
62.5°	1322.7	1367.7	1453.2	1455.4	1445.5
65°	1180.1	1214.1	1300.7	1298.6	1292.0
67.5°	1030.9	1072.6	1136.3	1138.4	1133.0
70°	891.6	920.2	981.6	982.7	969.6
72.5°	741.4	772.1	821.4	814.9	811.6
75°	595.5	619.7	658.1	662.5	651.5
77.5°	461.8	479.3	507.8	504.6	492.4
80°	324.6	338.9	359.8	355.4	342.1
82.5°	207.2	216.1	229.2	223.7	218.2
85°	113.0	114.0	115.1	114.0	110.8
87.5°	41.7	42.8	42.8	41.7	38.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)