

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: P488493

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-1STD-50-120-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: P488493
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-12-2-INS-P12125-LD4-1STD-50-120-EDD
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

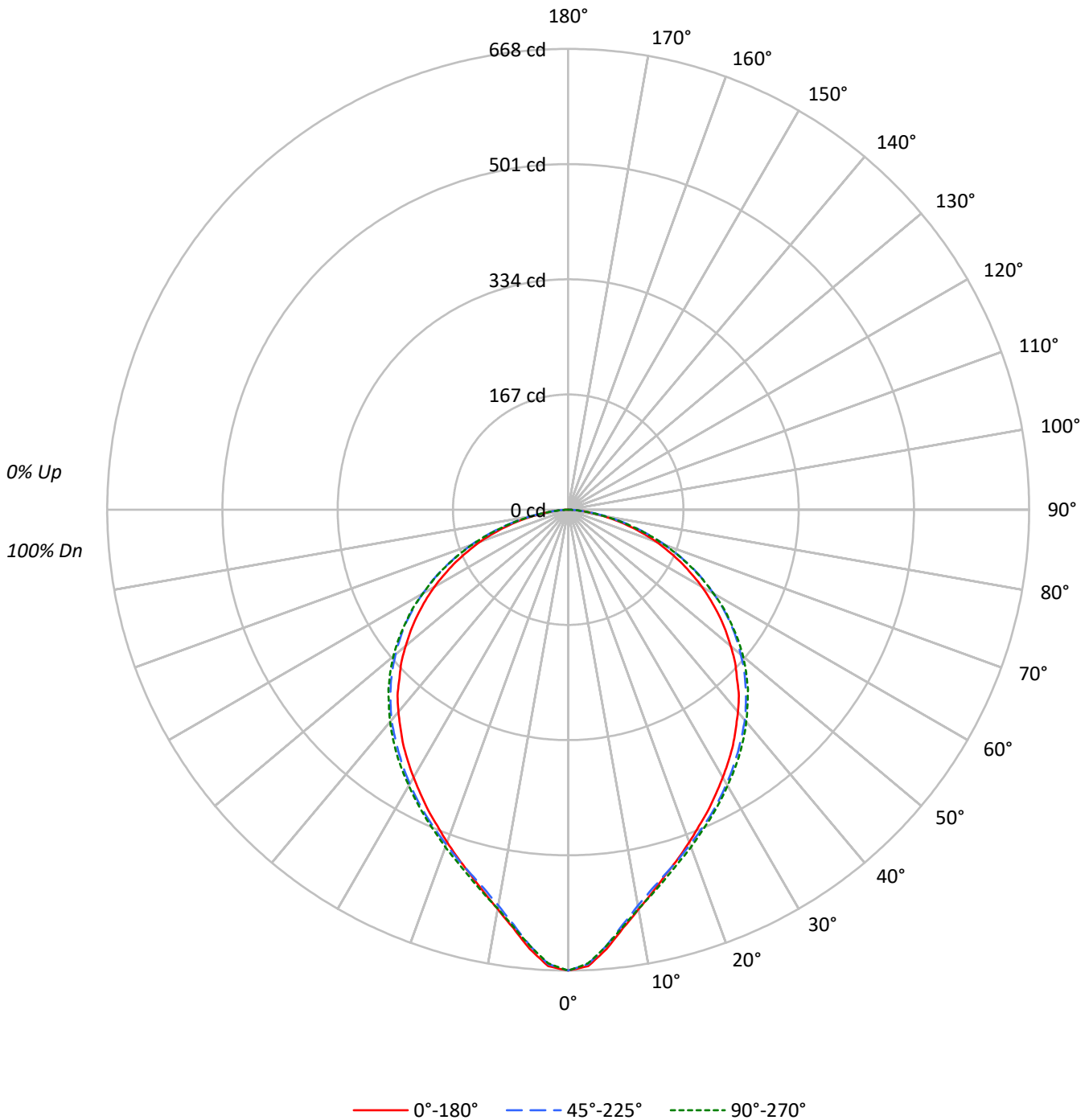
Lumens per Lamp: N/A
Luminaire Lumens: 1551.7 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
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: P488493

CATALOG NUMBER: CLM-12-2-INS-P12125-LD4-1STD-50-120-EDD

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	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°	3595	3595	3595
5°	3452	3428	3428
10°	3213	3184	3208
15°	3049	3043	3073
20°	2937	2958	2981
25°	2853	2900	2916
30°	2784	2852	2871
35°	2736	2817	2845
40°	2688	2797	2820
45°	2633	2770	2802
50°	2575	2735	2771
55°	2502	2696	2706
60°	2413	2621	2616
65°	2287	2521	2504
70°	2135	2351	2323
75°	1884	2084	2063
80°	1531	1698	1615
85°	1062	1081	1044



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.0	3.8
10°-20°	154.6	10.0
20°-30°	224.8	14.5
30°-40°	267.6	17.2
40°-50°	277.8	17.9
50°-60°	251.7	16.2
60°-70°	189.9	12.2
70°-80°	103.5	6.7
80°-90°	22.7	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°	438.5	28.3
0°-40°	706.1	45.5
0°-60°	1235.6	79.6
0°-90°	1551.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1551.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	668	668	668	668	668	
5°	639	638	634	634	634	59
15°	547	546	546	550	552	154
25°	480	484	488	492	491	221
35°	416	422	429	435	433	260
45°	346	352	364	368	368	267
55°	267	273	287	289	288	238
65°	180	185	198	198	197	178
75°	91	94	100	101	99	97
85°	17	17	18	17	17	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	668.0	668.0	668.0	668.0	668.0
2.5°	662.2	661.5	659.3	658.5	658.3
5°	639.0	637.5	634.5	634.1	634.5
7.5°	611.3	609.6	606.6	607.8	609.3
10°	587.9	583.7	582.6	584.2	587.1
12.5°	567.0	563.7	562.7	567.0	569.0
15°	547.2	545.8	546.2	549.9	551.5
17.5°	530.0	529.1	531.3	534.2	535.0
20°	512.8	514.5	516.5	519.5	520.5
22.5°	495.9	499.1	502.4	506.4	505.1
25°	480.4	484.4	488.3	492.3	491.1
27.5°	463.9	468.5	473.9	478.2	476.6
30°	448.0	453.9	459.0	464.4	461.9
32.5°	432.3	437.8	444.0	450.5	447.7
35°	416.5	421.5	428.7	435.2	433.0
37.5°	399.0	405.1	413.3	419.0	417.5
40°	382.6	388.3	398.1	401.8	401.4
42.5°	366.1	370.7	381.1	385.3	384.6
45°	345.9	352.0	363.9	367.9	368.2
47.5°	328.0	333.2	345.9	349.0	349.7
50°	307.5	314.0	326.7	330.5	331.0
52.5°	287.3	294.3	307.3	310.0	310.5
55°	266.7	273.1	287.3	289.3	288.4
57.5°	245.2	252.9	265.9	266.9	267.7
60°	224.2	230.9	243.5	244.9	243.0
62.5°	201.3	208.2	221.2	221.5	220.0
65°	179.6	184.8	198.0	197.6	196.6
67.5°	156.9	163.2	172.9	173.3	172.4
70°	135.7	140.0	149.4	149.6	147.6
72.5°	112.8	117.5	125.0	124.0	123.5
75°	90.6	94.3	100.2	100.8	99.2
77.5°	70.3	72.9	77.3	76.8	74.9
80°	49.4	51.6	54.8	54.1	52.1
82.5°	31.5	32.9	34.9	34.1	33.2
85°	17.2	17.4	17.5	17.4	16.9
87.5°	6.3	6.5	6.5	6.3	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)