

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: P488380

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-2STD-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: P488380
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-115-8)
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-A12125-LD4-2STD-35-120-EDD-90
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

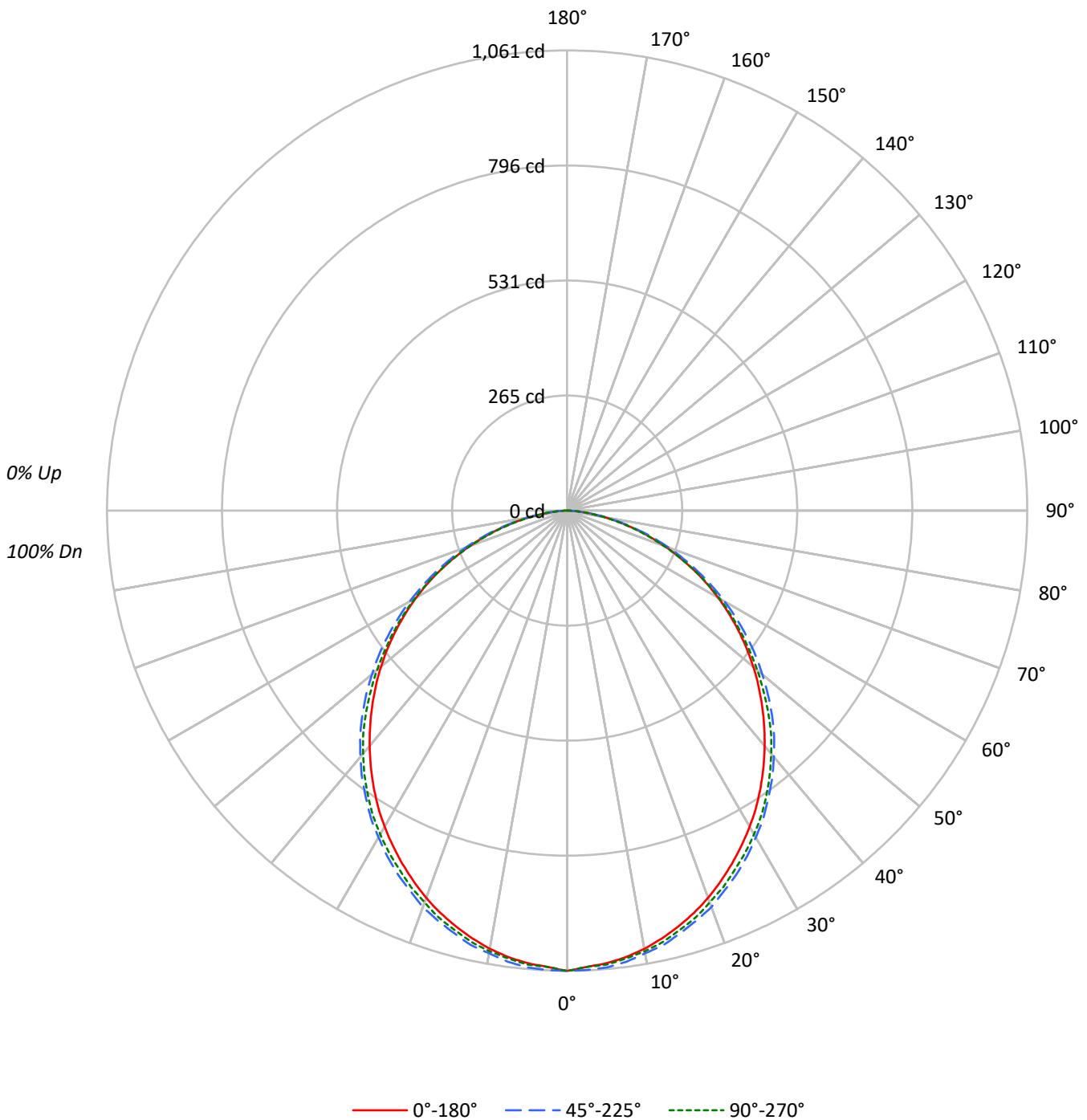
Lumens per Lamp: N/A
Luminaire Lumens: 2790.2 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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

TEST NUMBER: P488380

CATALOG NUMBER: CLM-12-2-INS-A12125-LD4-2STD-35-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P488380

CATALOG NUMBER: CLM-12-2-INS-A12125-LD4-2STD-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	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85					85			
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60					60			
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51					51			
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45					45			
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39					39			
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5712	5712	5712
5°	5659	5712	5677
10°	5607	5664	5637
15°	5529	5619	5580
20°	5443	5572	5505
25°	5336	5491	5428
30°	5229	5406	5356
35°	5111	5313	5264
40°	4978	5207	5141
45°	4838	5083	4987
50°	4693	4920	4791
55°	4523	4735	4589
60°	4330	4510	4370
65°	4080	4237	4084
70°	3755	3906	3714
75°	3306	3456	3256
80°	2687	2802	2656
85°	1871	1995	1945



TEST NUMBER: P488380

CATALOG NUMBER: CLM-12-2-INS-A12125-LD4-2STD-35-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.0	3.6
10°-20°	283.2	10.2
20°-30°	422.4	15.1
30°-40°	500.6	17.9
40°-50°	506.5	18.2
50°-60°	442.4	15.9
60°-70°	323.3	11.6
70°-80°	172.0	6.2
80°-90°	39.8	1.4
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°	805.6	28.9
0°-40°	1306.2	46.8
0°-60°	2255.2	80.8
0°-90°	2790.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2790.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1061	1061	1061	1061	1061	
5°	1048	1050	1057	1060	1051	99
15°	992	999	1008	1014	1001	280
25°	899	910	925	928	914	414
35°	778	790	809	814	801	486
45°	636	647	668	668	655	490
55°	482	492	505	497	489	431
65°	320	327	333	326	321	317
75°	159	163	166	160	157	169
85°	30	31	32	33	32	38
90°	0	0	0	0	0	



TEST NUMBER: P488380

CATALOG NUMBER: CLM-12-2-INS-A12125-LD4-2STD-35-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1061.3	1061.3	1061.3	1061.3	1061.3
2.5°	1053.0	1056.4	1060.0	1061.5	1052.9
5°	1047.5	1049.5	1057.3	1059.7	1050.8
7.5°	1038.4	1041.4	1049.0	1050.1	1041.5
10°	1026.0	1031.3	1036.4	1041.9	1031.4
12.5°	1010.2	1017.4	1026.0	1027.0	1019.1
15°	992.4	999.0	1008.4	1014.5	1001.4
17.5°	972.5	978.9	991.1	992.2	984.2
20°	950.3	958.2	972.8	975.4	961.1
22.5°	925.1	935.8	948.0	950.4	939.9
25°	898.6	909.7	924.7	928.2	914.1
27.5°	871.0	881.6	898.5	901.0	889.1
30°	841.4	851.3	869.9	874.0	861.9
32.5°	811.3	821.2	841.8	845.2	833.5
35°	777.9	790.1	808.7	814.4	801.2
37.5°	743.8	755.7	776.9	782.0	767.8
40°	708.6	720.3	741.2	745.4	731.8
42.5°	672.5	684.2	706.6	707.2	696.0
45°	635.7	647.0	667.8	668.3	655.2
47.5°	598.3	609.7	628.3	626.2	613.8
50°	560.5	571.3	587.6	583.4	572.2
52.5°	521.4	531.9	547.2	540.4	529.9
55°	482.0	491.7	504.6	497.3	489.1
57.5°	442.3	452.1	462.0	454.6	447.5
60°	402.3	410.9	419.0	411.4	406.0
62.5°	361.6	369.0	376.0	368.8	363.7
65°	320.4	327.0	332.7	326.1	320.7
67.5°	279.5	285.1	290.4	283.5	277.9
70°	238.6	243.4	248.2	241.2	236.0
72.5°	198.3	202.5	206.8	199.9	195.4
75°	159.0	162.7	166.2	160.1	156.6
77.5°	121.5	124.6	127.0	123.2	119.8
80°	86.7	89.0	90.4	88.9	85.7
82.5°	55.7	57.4	58.2	58.1	56.0
85°	30.3	30.9	32.3	32.6	31.5
87.5°	11.7	12.5	12.8	13.8	12.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)