

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: P488506

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-2LO-20-120-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: P488506
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-LD4-2LO-20-120-EDD-90
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

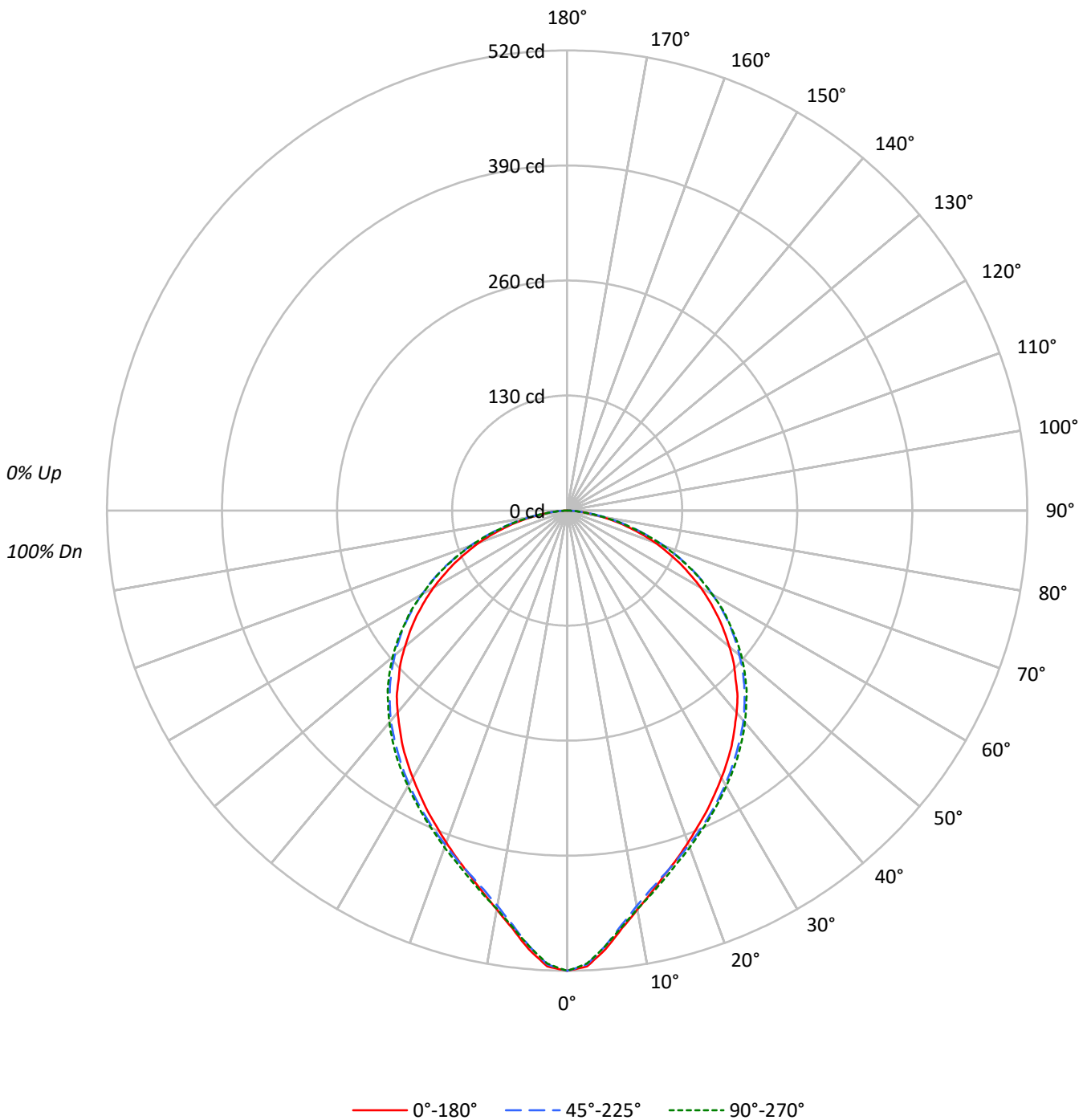
Lumens per Lamp: N/A
Luminaire Lumens: 1208.0 lumens
Efficiency: N/A
Efficacy: 51.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.23
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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: P488506

CATALOG NUMBER: CLM-12-2-INS-P12125-LD4-2LO-20-120-EDD-90

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°	2799	2799	2799
5°	2688	2668	2668
10°	2501	2478	2497
15°	2374	2369	2393
20°	2286	2303	2321
25°	2221	2257	2270
30°	2168	2221	2235
35°	2130	2192	2215
40°	2092	2177	2196
45°	2050	2156	2182
50°	2004	2129	2158
55°	1949	2098	2107
60°	1878	2041	2037
65°	1780	1962	1950
70°	1662	1830	1808
75°	1468	1622	1605
80°	1193	1320	1255
85°	827	840	809



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.0	3.8
10°-20°	120.4	10.0
20°-30°	175.0	14.5
30°-40°	208.3	17.2
40°-50°	216.3	17.9
50°-60°	195.9	16.2
60°-70°	147.8	12.2
70°-80°	80.6	6.7
80°-90°	17.7	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°	341.4	28.3
0°-40°	549.7	45.5
0°-60°	961.9	79.6
0°-90°	1208.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1208.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	520	520	520	520	520	
5°	498	496	494	494	494	46
15°	426	425	425	428	429	120
25°	374	377	380	383	382	172
35°	324	328	334	339	337	203
45°	269	274	283	286	287	208
55°	208	213	224	225	225	185
65°	140	144	154	154	153	138
75°	71	73	78	78	77	75
85°	13	14	14	14	13	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	520.1	520.1	520.1	520.1	520.1
2.5°	515.5	515.0	513.3	512.7	512.5
5°	497.5	496.3	493.9	493.7	493.9
7.5°	475.9	474.6	472.2	473.2	474.3
10°	457.7	454.4	453.5	454.8	457.0
12.5°	441.4	438.8	438.1	441.4	443.0
15°	426.0	424.9	425.2	428.1	429.4
17.5°	412.6	411.9	413.6	415.8	416.5
20°	399.2	400.5	402.1	404.4	405.2
22.5°	386.1	388.5	391.2	394.3	393.2
25°	374.0	377.1	380.1	383.2	382.3
27.5°	361.1	364.8	368.9	372.3	371.0
30°	348.8	353.3	357.4	361.5	359.6
32.5°	336.6	340.9	345.7	350.7	348.5
35°	324.2	328.1	333.7	338.8	337.1
37.5°	310.6	315.4	321.8	326.2	325.0
40°	297.8	302.3	309.9	312.8	312.5
42.5°	285.0	288.6	296.7	299.9	299.4
45°	269.3	274.1	283.3	286.4	286.7
47.5°	255.4	259.4	269.3	271.7	272.2
50°	239.4	244.4	254.3	257.3	257.7
52.5°	223.6	229.1	239.2	241.3	241.7
55°	207.7	212.6	223.6	225.2	224.6
57.5°	190.9	196.9	207.0	207.8	208.4
60°	174.5	179.7	189.6	190.6	189.2
62.5°	156.7	162.0	172.2	172.4	171.3
65°	139.8	143.9	154.1	153.9	153.1
67.5°	122.1	127.1	134.6	134.9	134.2
70°	105.6	109.0	116.3	116.4	114.9
72.5°	87.8	91.5	97.3	96.6	96.2
75°	70.6	73.4	78.0	78.5	77.2
77.5°	54.7	56.8	60.2	59.8	58.3
80°	38.5	40.2	42.6	42.1	40.5
82.5°	24.6	25.6	27.2	26.5	25.9
85°	13.4	13.5	13.6	13.5	13.1
87.5°	4.9	5.1	5.1	4.9	4.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)