

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: P488794

Luminaire Tested: **CLM-12-4-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: P488794
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-LD4-2LO-20-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

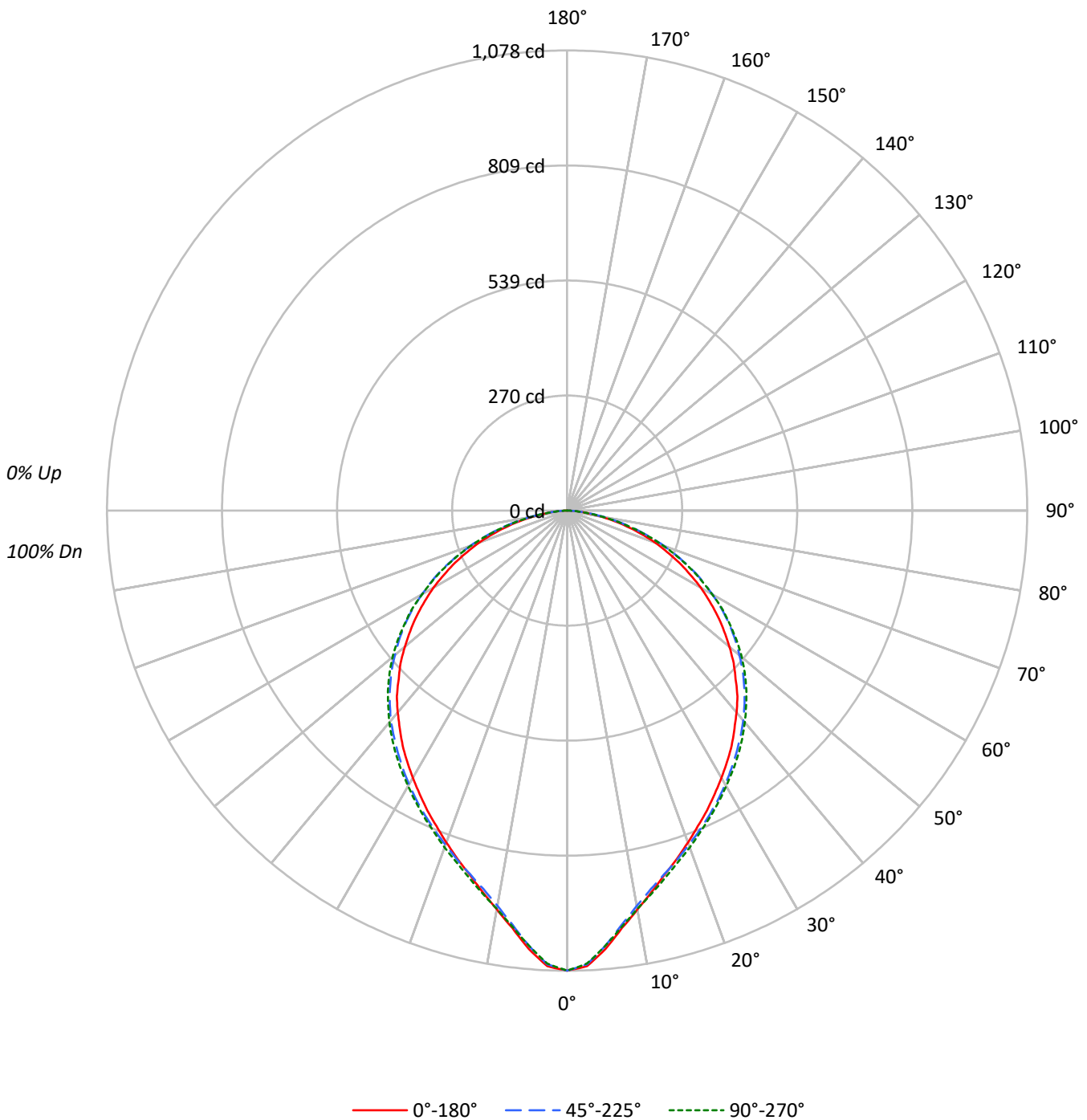
Lumens per Lamp: N/A
Luminaire Lumens: 2503.5 lumens
Efficiency: N/A
Efficacy: 53.5 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
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: P488794

CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-2LO-20-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P488794

CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-2LO-20-120-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	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°	2900	2900	2900
5°	2785	2765	2765
10°	2592	2568	2588
15°	2459	2455	2479
20°	2369	2386	2405
25°	2301	2339	2352
30°	2246	2301	2316
35°	2207	2272	2295
40°	2168	2256	2275
45°	2124	2234	2261
50°	2077	2207	2236
55°	2019	2175	2183
60°	1947	2115	2110
65°	1845	2034	2020
70°	1722	1896	1873
75°	1520	1680	1664
80°	1235	1368	1302
85°	855	874	840



TEST NUMBER: P488794

CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-2LO-20-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.2	3.8
10°-20°	249.5	10.0
20°-30°	362.8	14.5
30°-40°	431.7	17.2
40°-50°	448.2	17.9
50°-60°	406.1	16.2
60°-70°	306.4	12.2
70°-80°	167.0	6.7
80°-90°	36.7	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°	707.5	28.3
0°-40°	1139.1	45.5
0°-60°	1993.4	79.6
0°-90°	2503.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2503.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1078	1078	1078	1078	1078	
5°	1031	1028	1024	1023	1024	96
15°	883	881	881	887	890	249
25°	775	782	788	794	792	357
35°	672	680	692	702	699	420
45°	558	568	587	594	594	431
55°	430	441	464	467	465	384
65°	290	298	319	319	317	286
75°	146	152	162	163	160	156
85°	28	28	28	28	27	35
90°	0	0	0	0	0	



TEST NUMBER: P488794

CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-2LO-20-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1077.8	1077.8	1077.8	1077.8	1077.8
2.5°	1068.4	1067.3	1063.8	1062.4	1062.2
5°	1030.9	1028.5	1023.7	1023.1	1023.7
7.5°	986.2	983.5	978.7	980.6	983.0
10°	948.5	941.8	939.9	942.6	947.2
12.5°	914.8	909.5	907.8	914.8	918.1
15°	882.8	880.6	881.2	887.1	889.8
17.5°	855.1	853.7	857.2	861.8	863.2
20°	827.3	830.0	833.3	838.1	839.7
22.5°	800.1	805.2	810.6	817.1	814.9
25°	775.1	781.5	787.7	794.2	792.3
27.5°	748.4	756.0	764.6	771.6	768.9
30°	722.8	732.3	740.6	749.2	745.2
32.5°	697.5	706.4	716.4	726.9	722.3
35°	671.9	680.0	691.6	702.1	698.6
37.5°	643.7	653.6	666.8	676.0	673.6
40°	617.3	626.4	642.3	648.2	647.7
42.5°	590.6	598.2	614.8	621.6	620.5
45°	558.0	568.0	587.1	593.6	594.1
47.5°	529.2	537.6	558.0	563.1	564.2
50°	496.1	506.6	527.1	533.2	534.1
52.5°	463.5	474.8	495.8	500.1	500.9
55°	430.4	440.6	463.5	466.7	465.4
57.5°	395.6	408.0	429.0	430.6	432.0
60°	361.7	372.5	392.9	395.1	392.1
62.5°	324.8	335.8	356.8	357.4	354.9
65°	289.8	298.1	319.4	318.9	317.2
67.5°	253.1	263.4	279.0	279.5	278.2
70°	218.9	225.9	241.0	241.3	238.1
72.5°	182.1	189.6	201.7	200.1	199.3
75°	146.2	152.2	161.6	162.7	160.0
77.5°	113.4	117.7	124.7	123.9	120.9
80°	79.7	83.2	88.3	87.3	84.0
82.5°	50.9	53.1	56.3	54.9	53.6
85°	27.7	28.0	28.3	28.0	27.2
87.5°	10.2	10.5	10.5	10.2	9.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)