

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: P488774

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-1STD-30-120-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: P488774
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-LD4-1STD-30-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

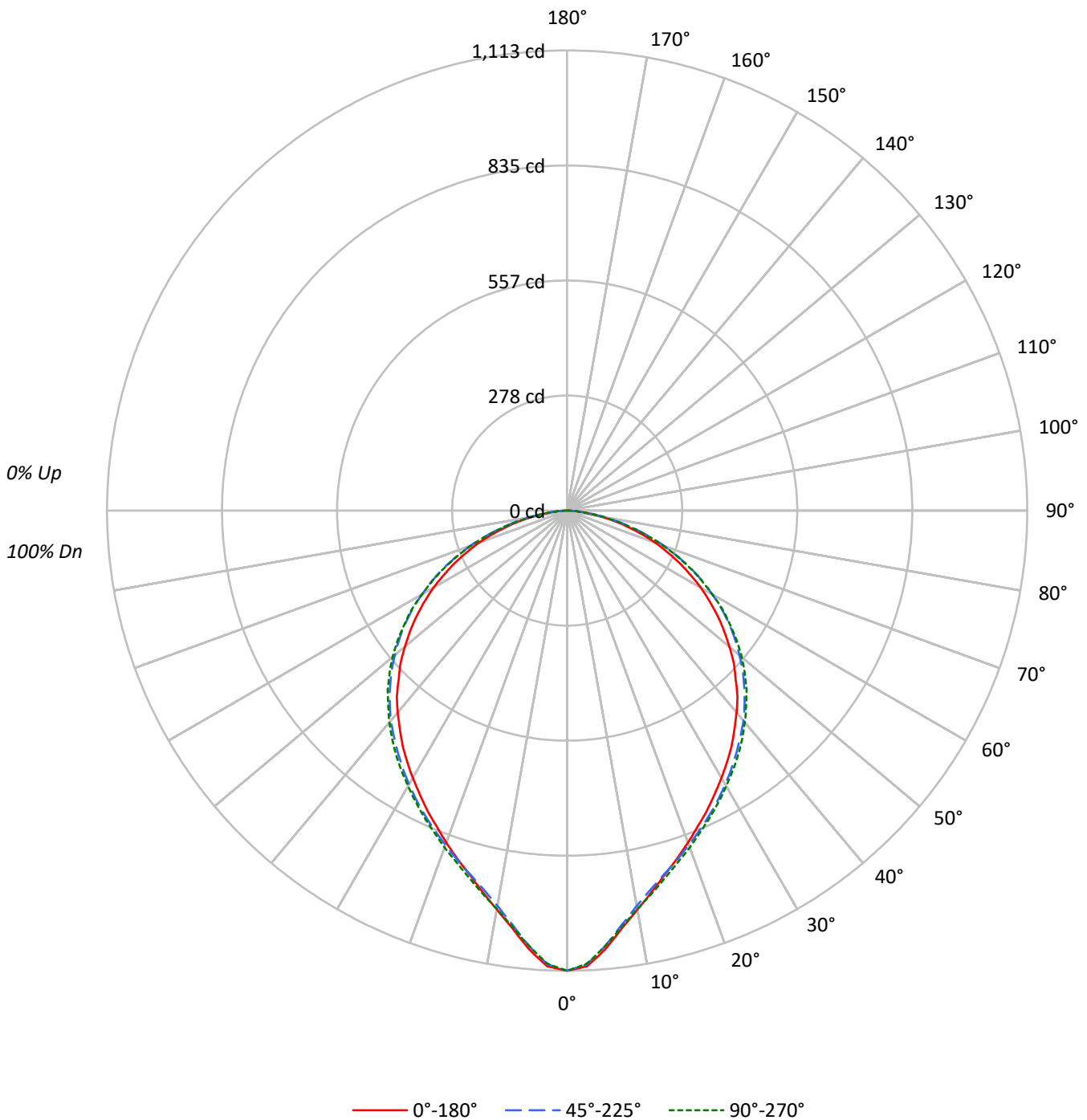
Lumens per Lamp: N/A
Luminaire Lumens: 2585.1 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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

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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°	2995	2995	2995
5°	2875	2855	2855
10°	2676	2652	2672
15°	2540	2535	2560
20°	2446	2464	2483
25°	2377	2415	2429
30°	2319	2376	2391
35°	2279	2346	2370
40°	2239	2330	2349
45°	2193	2307	2335
50°	2144	2278	2309
55°	2085	2245	2254
60°	2010	2183	2179
65°	1905	2100	2086
70°	1779	1958	1934
75°	1570	1735	1718
80°	1275	1413	1345
85°	883	902	868



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.3	3.8
10°-20°	257.6	10.0
20°-30°	374.6	14.5
30°-40°	445.7	17.2
40°-50°	462.8	17.9
50°-60°	419.3	16.2
60°-70°	316.4	12.2
70°-80°	172.4	6.7
80°-90°	37.9	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°	730.5	28.3
0°-40°	1176.3	45.5
0°-60°	2058.4	79.6
0°-90°	2585.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2585.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1113	1113	1113	1113	1113	
5°	1064	1062	1057	1056	1057	99
15°	912	909	910	916	919	257
25°	800	807	813	820	818	369
35°	694	702	714	725	721	434
45°	576	586	606	613	614	445
55°	444	455	479	482	480	397
65°	299	308	330	329	328	296
75°	151	157	167	168	165	161
85°	29	29	29	29	28	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1112.9	1112.9	1112.9	1112.9	1112.9
2.5°	1103.2	1102.1	1098.5	1097.1	1096.8
5°	1064.5	1062.0	1057.0	1056.5	1057.0
7.5°	1018.4	1015.6	1010.6	1012.5	1015.0
10°	979.4	972.5	970.5	973.3	978.0
12.5°	944.7	939.1	937.4	944.7	948.0
15°	911.6	909.4	909.9	916.0	918.8
17.5°	882.9	881.6	885.2	889.9	891.3
20°	854.3	857.1	860.4	865.4	867.1
22.5°	826.2	831.5	837.1	843.7	841.5
25°	800.4	807.0	813.4	820.1	818.2
27.5°	772.8	780.6	789.5	796.7	793.9
30°	746.4	756.1	764.8	773.6	769.5
32.5°	720.3	729.4	739.7	750.6	745.8
35°	693.8	702.2	714.1	725.0	721.4
37.5°	664.6	674.9	688.5	698.0	695.5
40°	637.4	646.8	663.3	669.4	668.8
42.5°	609.9	617.7	634.9	641.8	640.7
45°	576.2	586.5	606.2	612.9	613.5
47.5°	546.5	555.1	576.2	581.5	582.6
50°	512.2	523.1	544.2	550.6	551.5
52.5°	478.6	490.3	512.0	516.4	517.3
55°	444.4	454.9	478.6	481.9	480.5
57.5°	408.5	421.3	443.0	444.7	446.1
60°	373.5	384.6	405.7	408.0	404.9
62.5°	335.4	346.8	368.5	369.0	366.5
65°	299.2	307.8	329.8	329.3	327.6
67.5°	261.4	272.0	288.1	288.7	287.3
70°	226.1	233.3	248.9	249.2	245.8
72.5°	188.0	195.8	208.3	206.6	205.8
75°	151.0	157.1	166.9	168.0	165.2
77.5°	117.1	121.5	128.8	127.9	124.9
80°	82.3	85.9	91.2	90.1	86.8
82.5°	52.5	54.8	58.1	56.7	55.3
85°	28.6	28.9	29.2	28.9	28.1
87.5°	10.6	10.9	10.9	10.6	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)