

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: P488776

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-1STD-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: P488776
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-35-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

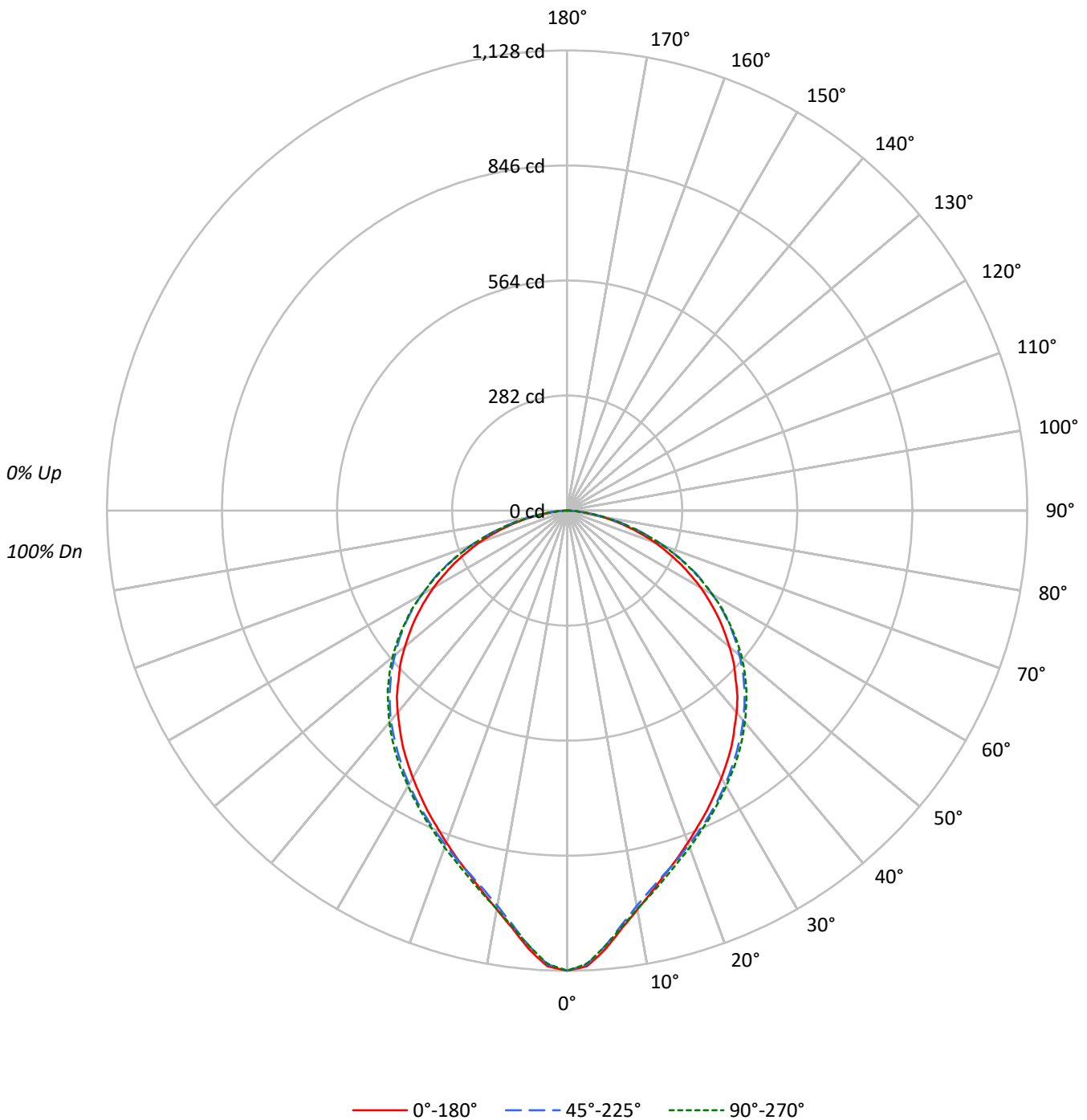
Lumens per Lamp: N/A
Luminaire Lumens: 2619.7 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
Input Voltage (V): NR
Input Current (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

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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°	3035	3035	3035
5°	2914	2894	2894
10°	2712	2687	2708
15°	2574	2569	2594
20°	2479	2497	2516
25°	2408	2447	2462
30°	2350	2408	2423
35°	2310	2377	2401
40°	2269	2361	2381
45°	2222	2338	2366
50°	2173	2309	2339
55°	2113	2275	2285
60°	2037	2213	2208
65°	1931	2128	2114
70°	1803	1984	1960
75°	1591	1758	1740
80°	1292	1432	1362
85°	895	914	880



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.7	3.8
10°-20°	261.0	10.0
20°-30°	379.6	14.5
30°-40°	451.7	17.2
40°-50°	469.0	17.9
50°-60°	424.9	16.2
60°-70°	320.6	12.2
70°-80°	174.7	6.7
80°-90°	38.4	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°	740.3	28.3
0°-40°	1192.0	45.5
0°-60°	2085.9	79.6
0°-90°	2619.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2619.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1128	1128	1128	1128	1128	
5°	1079	1076	1071	1071	1071	100
15°	924	922	922	928	931	261
25°	811	818	824	831	829	374
35°	703	712	724	735	731	440
45°	584	594	614	621	622	451
55°	450	461	485	488	487	402
65°	303	312	334	334	332	300
75°	153	159	169	170	167	163
85°	29	29	30	29	28	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1127.8	1127.8	1127.8	1127.8	1127.8
2.5°	1118.0	1116.8	1113.2	1111.7	1111.5
5°	1078.8	1076.2	1071.2	1070.6	1071.2
7.5°	1032.0	1029.2	1024.1	1026.1	1028.6
10°	992.5	985.5	983.5	986.3	991.1
12.5°	957.3	951.7	950.0	957.3	960.7
15°	923.8	921.5	922.1	928.3	931.1
17.5°	894.8	893.4	897.0	901.8	903.2
20°	865.7	868.6	871.9	877.0	878.7
22.5°	837.3	842.6	848.3	855.0	852.8
25°	811.1	817.8	824.3	831.1	829.1
27.5°	783.2	791.0	800.1	807.4	804.6
30°	756.4	766.2	775.0	784.0	779.8
32.5°	729.9	739.2	749.6	760.6	755.8
35°	703.1	711.6	723.7	734.7	731.0
37.5°	673.5	684.0	697.8	707.3	704.8
40°	645.9	655.5	672.1	678.3	677.8
42.5°	618.0	625.9	643.4	650.4	649.3
45°	583.9	594.3	614.3	621.1	621.7
47.5°	553.8	562.5	583.9	589.3	590.4
50°	519.1	530.1	551.5	558.0	558.8
52.5°	485.0	496.8	518.8	523.3	524.2
55°	450.3	461.0	485.0	488.4	487.0
57.5°	414.0	426.9	448.9	450.6	452.0
60°	378.5	389.7	411.2	413.4	410.3
62.5°	339.9	351.4	373.4	374.0	371.4
65°	303.2	312.0	334.2	333.7	332.0
67.5°	264.9	275.6	292.0	292.5	291.1
70°	229.1	236.4	252.2	252.5	249.1
72.5°	190.5	198.4	211.1	209.4	208.6
75°	153.0	159.2	169.1	170.2	167.4
77.5°	118.6	123.2	130.5	129.6	126.5
80°	83.4	87.1	92.4	91.3	87.9
82.5°	53.3	55.5	58.9	57.5	56.1
85°	29.0	29.3	29.6	29.3	28.5
87.5°	10.7	11.0	11.0	10.7	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)