

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: P488545

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-1LO-27-120-EDD**

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: P488545
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-12-4-INS-A12125-LD4-1LO-27-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

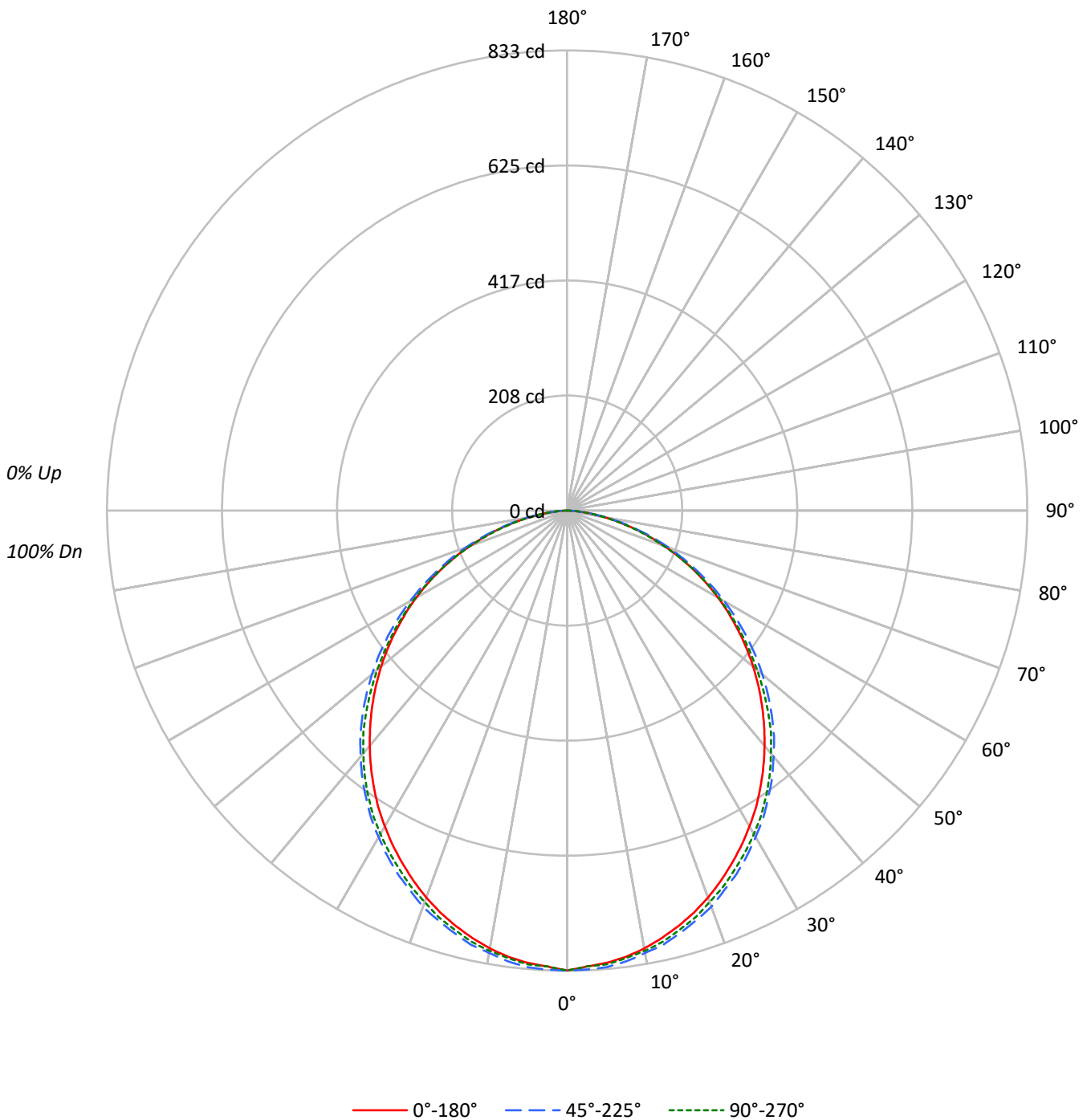
Lumens per Lamp: N/A
Luminaire Lumens: 2189.0 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2241	2241	2241
5°	2220	2241	2227
10°	2199	2222	2211
15°	2169	2204	2189
20°	2135	2186	2159
25°	2093	2154	2129
30°	2051	2121	2101
35°	2005	2084	2065
40°	1953	2043	2017
45°	1898	1994	1956
50°	1841	1930	1879
55°	1774	1857	1800
60°	1699	1769	1714
65°	1601	1662	1602
70°	1473	1533	1456
75°	1297	1356	1277
80°	1054	1100	1041
85°	735	781	763



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.4	3.6
10°-20°	222.2	10.2
20°-30°	331.4	15.1
30°-40°	392.7	17.9
40°-50°	397.4	18.2
50°-60°	347.1	15.9
60°-70°	253.6	11.6
70°-80°	134.9	6.2
80°-90°	31.2	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°	632.1	28.9
0°-40°	1024.8	46.8
0°-60°	1769.2	80.8
0°-90°	2189.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2189.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	833	833	833	833	833	
5°	822	823	830	831	824	78
15°	779	784	791	796	786	219
25°	705	714	726	728	717	325
35°	610	620	634	639	629	382
45°	499	508	524	524	514	385
55°	378	386	396	390	384	338
65°	251	256	261	256	252	249
75°	125	128	130	126	123	133
85°	24	24	25	26	25	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	832.6	832.6	832.6	832.6	832.6
2.5°	826.1	828.8	831.6	832.8	826.0
5°	821.8	823.3	829.5	831.4	824.4
7.5°	814.7	817.0	823.0	823.9	817.1
10°	804.9	809.1	813.1	817.4	809.2
12.5°	792.5	798.2	804.9	805.7	799.5
15°	778.6	783.8	791.2	795.9	785.6
17.5°	763.0	768.0	777.5	778.4	772.2
20°	745.5	751.8	763.2	765.2	754.0
22.5°	725.7	734.2	743.7	745.6	737.4
25°	705.0	713.7	725.5	728.2	717.2
27.5°	683.3	691.7	704.9	706.8	697.5
30°	660.1	667.9	682.5	685.7	676.2
32.5°	636.5	644.3	660.4	663.1	653.9
35°	610.3	619.8	634.5	638.9	628.6
37.5°	583.6	592.8	609.5	613.5	602.4
40°	555.9	565.1	581.5	584.8	574.1
42.5°	527.6	536.8	554.3	554.8	546.0
45°	498.7	507.6	523.9	524.3	514.0
47.5°	469.4	478.3	492.9	491.3	481.5
50°	439.7	448.2	461.0	457.7	448.9
52.5°	409.0	417.3	429.3	423.9	415.7
55°	378.1	385.8	395.8	390.1	383.7
57.5°	347.0	354.7	362.4	356.6	351.1
60°	315.6	322.4	328.7	322.8	318.5
62.5°	283.7	289.5	294.9	289.3	285.3
65°	251.4	256.5	261.0	255.8	251.6
67.5°	219.3	223.6	227.8	222.4	218.0
70°	187.2	190.9	194.8	189.2	185.1
72.5°	155.5	158.8	162.2	156.8	153.3
75°	124.7	127.6	130.4	125.6	122.8
77.5°	95.3	97.8	99.7	96.6	93.9
80°	68.0	69.8	71.0	69.7	67.2
82.5°	43.7	45.0	45.6	45.5	43.9
85°	23.8	24.2	25.3	25.6	24.7
87.5°	9.2	9.8	10.1	10.8	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)