

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: P488906

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-2LO-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: P488906
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-24-2-INS-A12125-LD4-2LO-30-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

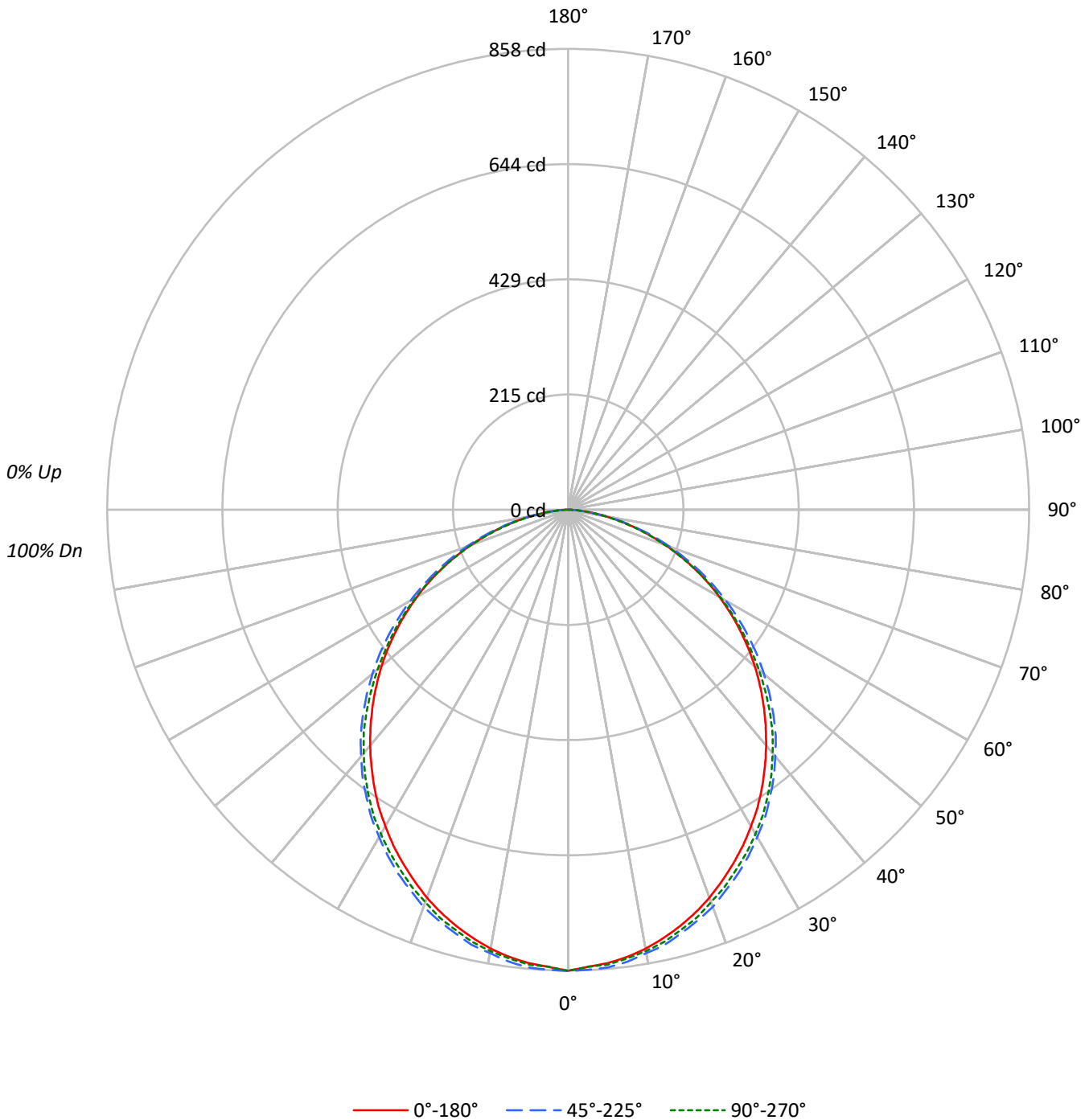
Lumens per Lamp: N/A
Luminaire Lumens: 2257.1 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

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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°	2310	2310	2310
5°	2289	2310	2296
10°	2268	2291	2280
15°	2237	2273	2257
20°	2201	2254	2227
25°	2158	2221	2196
30°	2115	2187	2166
35°	2067	2149	2129
40°	2014	2106	2080
45°	1957	2056	2017
50°	1898	1990	1938
55°	1829	1915	1856
60°	1751	1824	1768
65°	1650	1713	1652
70°	1519	1580	1502
75°	1337	1397	1317
80°	1086	1134	1074
85°	756	806	787



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.9	3.6
10°-20°	229.1	10.2
20°-30°	341.7	15.1
30°-40°	405.0	17.9
40°-50°	409.8	18.2
50°-60°	357.9	15.9
60°-70°	261.5	11.6
70°-80°	139.1	6.2
80°-90°	32.2	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°	651.7	28.9
0°-40°	1056.7	46.8
0°-60°	1824.3	80.8
0°-90°	2257.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2257.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	858	858	858	858	858	
5°	847	849	855	857	850	80
15°	803	808	816	821	810	226
25°	727	736	748	751	740	335
35°	629	639	654	659	648	394
45°	514	523	540	541	530	397
55°	390	398	408	402	396	349
65°	259	264	269	264	259	256
75°	129	132	134	130	127	137
85°	24	25	26	26	26	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	858.5	858.5	858.5	858.5	858.5
2.5°	851.8	854.6	857.4	858.7	851.7
5°	847.3	848.9	855.3	857.3	850.0
7.5°	840.0	842.4	848.6	849.5	842.5
10°	830.0	834.3	838.4	842.9	834.4
12.5°	817.2	823.0	830.0	830.8	824.4
15°	802.8	808.2	815.8	820.7	810.0
17.5°	786.7	791.9	801.7	802.6	796.2
20°	768.7	775.2	787.0	789.0	777.5
22.5°	748.3	757.0	766.8	768.8	760.3
25°	726.9	735.9	748.1	750.8	739.5
27.5°	704.6	713.2	726.9	728.8	719.3
30°	680.6	688.7	703.7	707.0	697.2
32.5°	656.3	664.3	681.0	683.7	674.3
35°	629.3	639.1	654.2	658.8	648.1
37.5°	601.7	611.3	628.5	632.6	621.1
40°	573.2	582.7	599.6	603.0	592.0
42.5°	544.0	553.5	571.6	572.1	563.0
45°	514.2	523.4	540.2	540.6	530.0
47.5°	484.0	493.2	508.2	506.5	496.5
50°	453.4	462.2	475.3	471.9	462.9
52.5°	421.7	430.2	442.7	437.1	428.6
55°	389.9	397.8	408.2	402.2	395.6
57.5°	357.8	365.8	373.7	367.7	362.0
60°	325.4	332.4	338.9	332.8	328.5
62.5°	292.5	298.5	304.1	298.3	294.2
65°	259.2	264.5	269.1	263.8	259.4
67.5°	226.1	230.6	234.9	229.3	224.8
70°	193.0	196.9	200.8	195.1	190.9
72.5°	160.4	163.8	167.3	161.7	158.1
75°	128.6	131.6	134.4	129.5	126.7
77.5°	98.3	100.8	102.8	99.6	96.9
80°	70.1	72.0	73.2	71.9	69.3
82.5°	45.1	46.4	47.0	47.0	45.3
85°	24.5	25.0	26.1	26.4	25.5
87.5°	9.5	10.1	10.4	11.2	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)