

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: P488875

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-1LO-40-120-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: P488875
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-LD4-1LO-40-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

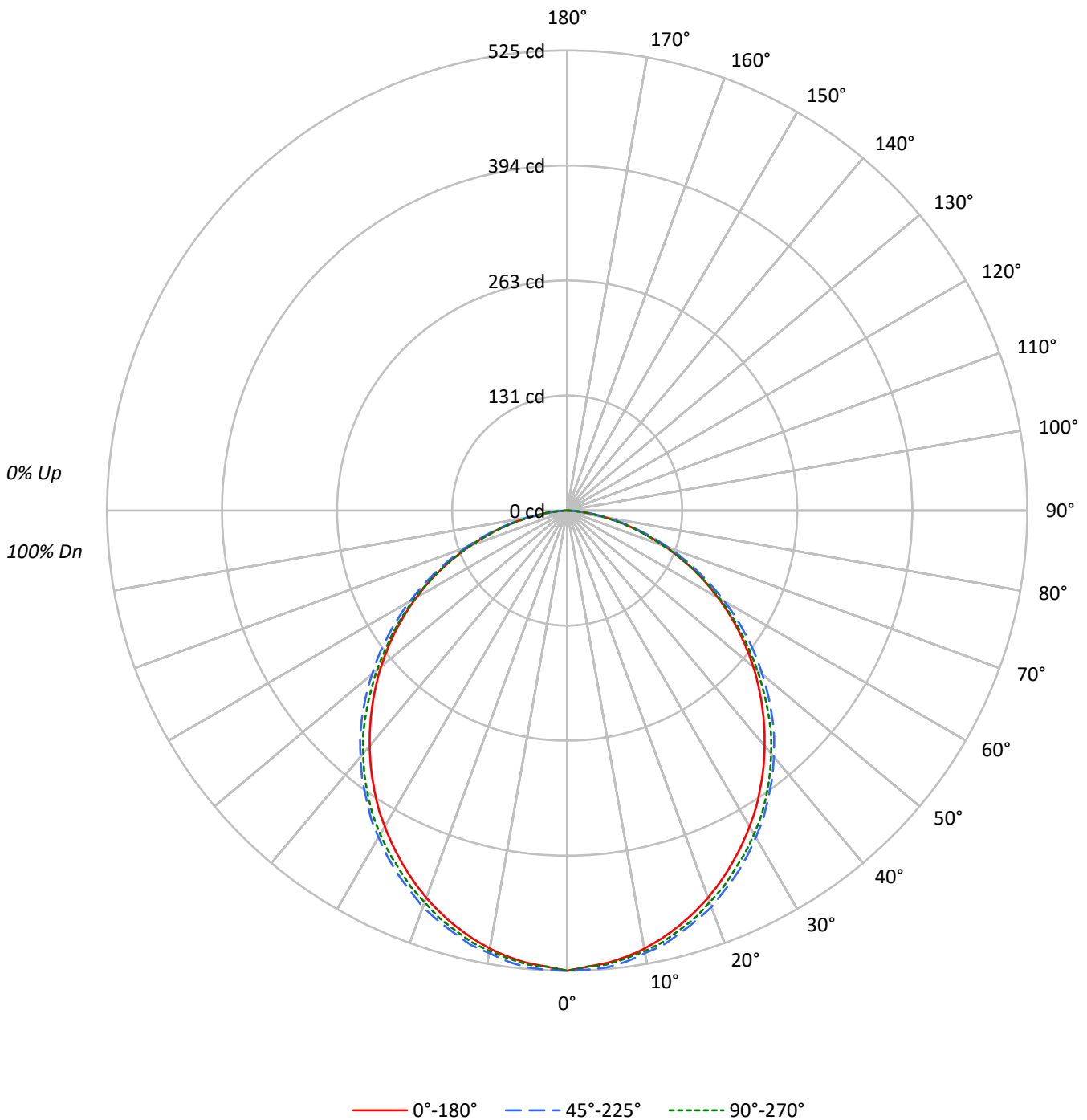
Lumens per Lamp: N/A
Luminaire Lumens: 1380.4 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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°	1413	1413	1413
5°	1400	1413	1404
10°	1387	1401	1394
15°	1368	1390	1380
20°	1346	1378	1362
25°	1320	1358	1343
30°	1293	1337	1325
35°	1264	1314	1302
40°	1231	1288	1272
45°	1197	1257	1233
50°	1161	1217	1185
55°	1119	1171	1135
60°	1071	1116	1081
65°	1009	1048	1010
70°	929	966	918
75°	818	855	806
80°	665	693	657
85°	463	494	482



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.4	3.6
10°-20°	140.1	10.2
20°-30°	209.0	15.1
30°-40°	247.7	17.9
40°-50°	250.6	18.2
50°-60°	218.9	15.9
60°-70°	159.9	11.6
70°-80°	85.1	6.2
80°-90°	19.7	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°	398.6	28.9
0°-40°	646.3	46.8
0°-60°	1115.7	80.8
0°-90°	1380.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1380.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	525	525	525	525	525	
5°	518	519	523	524	520	49
15°	491	494	499	502	495	138
25°	445	450	458	459	452	205
35°	385	391	400	403	396	241
45°	314	320	330	331	324	243
55°	238	243	250	246	242	213
65°	158	162	165	161	159	157
75°	79	80	82	79	78	84
85°	15	15	16	16	16	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	525.1	525.1	525.1	525.1	525.1
2.5°	521.0	522.6	524.4	525.2	520.9
5°	518.2	519.2	523.1	524.3	519.9
7.5°	513.7	515.2	519.0	519.5	515.3
10°	507.6	510.2	512.7	515.5	510.3
12.5°	499.8	503.3	507.6	508.1	504.2
15°	491.0	494.3	498.9	501.9	495.4
17.5°	481.1	484.3	490.3	490.9	486.9
20°	470.1	474.1	481.3	482.5	475.5
22.5°	457.7	463.0	469.0	470.2	465.0
25°	444.6	450.1	457.5	459.2	452.2
27.5°	430.9	436.2	444.5	445.7	439.9
30°	416.2	421.2	430.4	432.4	426.4
32.5°	401.4	406.3	416.5	418.2	412.4
35°	384.8	390.9	400.1	402.9	396.4
37.5°	368.0	373.9	384.4	386.9	379.9
40°	350.5	356.3	366.7	368.8	362.0
42.5°	332.7	338.5	349.6	349.9	344.3
45°	314.5	320.1	330.4	330.6	324.1
47.5°	296.0	301.6	310.8	309.8	303.7
50°	277.3	282.7	290.7	288.6	283.1
52.5°	257.9	263.1	270.7	267.3	262.1
55°	238.5	243.3	249.6	246.0	242.0
57.5°	218.8	223.7	228.6	224.9	221.4
60°	199.0	203.3	207.3	203.6	200.9
62.5°	178.9	182.5	186.0	182.4	179.9
65°	158.5	161.8	164.6	161.3	158.6
67.5°	138.3	141.0	143.7	140.3	137.5
70°	118.1	120.4	122.8	119.3	116.7
72.5°	98.1	100.2	102.3	98.9	96.7
75°	78.7	80.5	82.2	79.2	77.5
77.5°	60.1	61.7	62.9	60.9	59.2
80°	42.9	44.0	44.7	44.0	42.4
82.5°	27.6	28.4	28.8	28.7	27.7
85°	15.0	15.3	16.0	16.1	15.6
87.5°	5.8	6.2	6.3	6.8	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)