

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: P488873

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-1LO-35-120-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: P488873
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-35-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

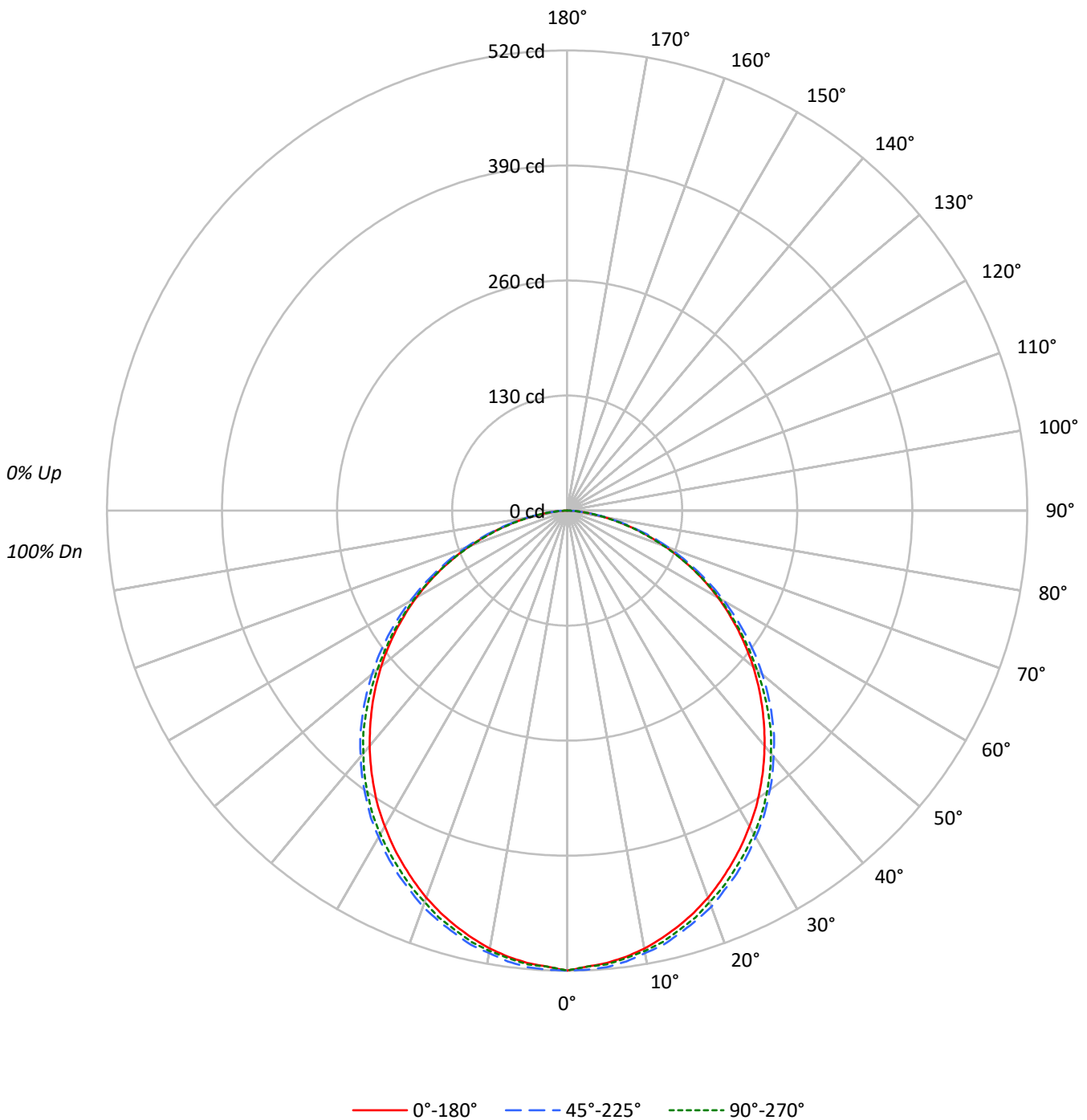
Lumens per Lamp: N/A
Luminaire Lumens: 1366.7 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	1399	1399	1399
5°	1386	1399	1390
10°	1373	1387	1380
15°	1354	1376	1366
20°	1333	1365	1348
25°	1307	1345	1330
30°	1281	1324	1312
35°	1252	1301	1289
40°	1219	1275	1259
45°	1185	1245	1221
50°	1149	1205	1173
55°	1108	1159	1124
60°	1060	1104	1070
65°	1000	1038	1000
70°	920	957	910
75°	810	846	797
80°	659	687	651
85°	457	488	475



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.0	3.6
10°-20°	138.7	10.2
20°-30°	206.9	15.1
30°-40°	245.2	17.9
40°-50°	248.1	18.2
50°-60°	216.7	15.9
60°-70°	158.3	11.6
70°-80°	84.2	6.2
80°-90°	19.5	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°	394.6	28.9
0°-40°	639.8	46.8
0°-60°	1104.6	80.8
0°-90°	1366.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1366.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	520	520	520	520	520	
5°	513	514	518	519	515	49
15°	486	489	494	497	490	137
25°	440	446	453	455	448	203
35°	381	387	396	399	392	238
45°	311	317	327	327	321	240
55°	236	241	247	244	240	211
65°	157	160	163	160	157	155
75°	78	80	81	78	77	83
85°	15	15	16	16	15	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	519.8	519.8	519.8	519.8	519.8
2.5°	515.8	517.5	519.2	520.0	515.7
5°	513.1	514.0	517.9	519.1	514.7
7.5°	508.6	510.1	513.8	514.4	510.1
10°	502.6	505.2	507.7	510.4	505.2
12.5°	494.8	498.3	502.6	503.1	499.2
15°	486.1	489.4	494.0	496.9	490.5
17.5°	476.4	479.5	485.5	486.0	482.1
20°	465.5	469.4	476.5	477.8	470.8
22.5°	453.1	458.4	464.3	465.5	460.4
25°	440.2	445.6	453.0	454.6	447.8
27.5°	426.6	431.8	440.1	441.3	435.5
30°	412.1	417.0	426.1	428.1	422.2
32.5°	397.4	402.3	412.3	414.0	408.3
35°	381.0	387.0	396.1	398.9	392.5
37.5°	364.3	370.1	380.5	383.0	376.1
40°	347.1	352.8	363.0	365.1	358.4
42.5°	329.4	335.2	346.1	346.4	340.9
45°	311.4	316.9	327.1	327.4	320.9
47.5°	293.1	298.6	307.7	306.7	300.7
50°	274.5	279.9	287.8	285.8	280.3
52.5°	255.4	260.5	268.0	264.7	259.5
55°	236.1	240.9	247.1	243.6	239.6
57.5°	216.6	221.5	226.3	222.7	219.2
60°	197.0	201.3	205.2	201.5	198.9
62.5°	177.1	180.7	184.1	180.6	178.1
65°	157.0	160.2	163.0	159.7	157.1
67.5°	136.9	139.6	142.2	138.9	136.1
70°	116.9	119.2	121.6	118.1	115.6
72.5°	97.1	99.2	101.3	97.9	95.7
75°	77.9	79.7	81.4	78.4	76.7
77.5°	59.5	61.0	62.2	60.3	58.7
80°	42.5	43.6	44.3	43.5	42.0
82.5°	27.3	28.1	28.5	28.4	27.4
85°	14.8	15.1	15.8	16.0	15.4
87.5°	5.7	6.1	6.3	6.8	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)