

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: P488942

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-3LO-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: P488942
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-LD4-3LO-30-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

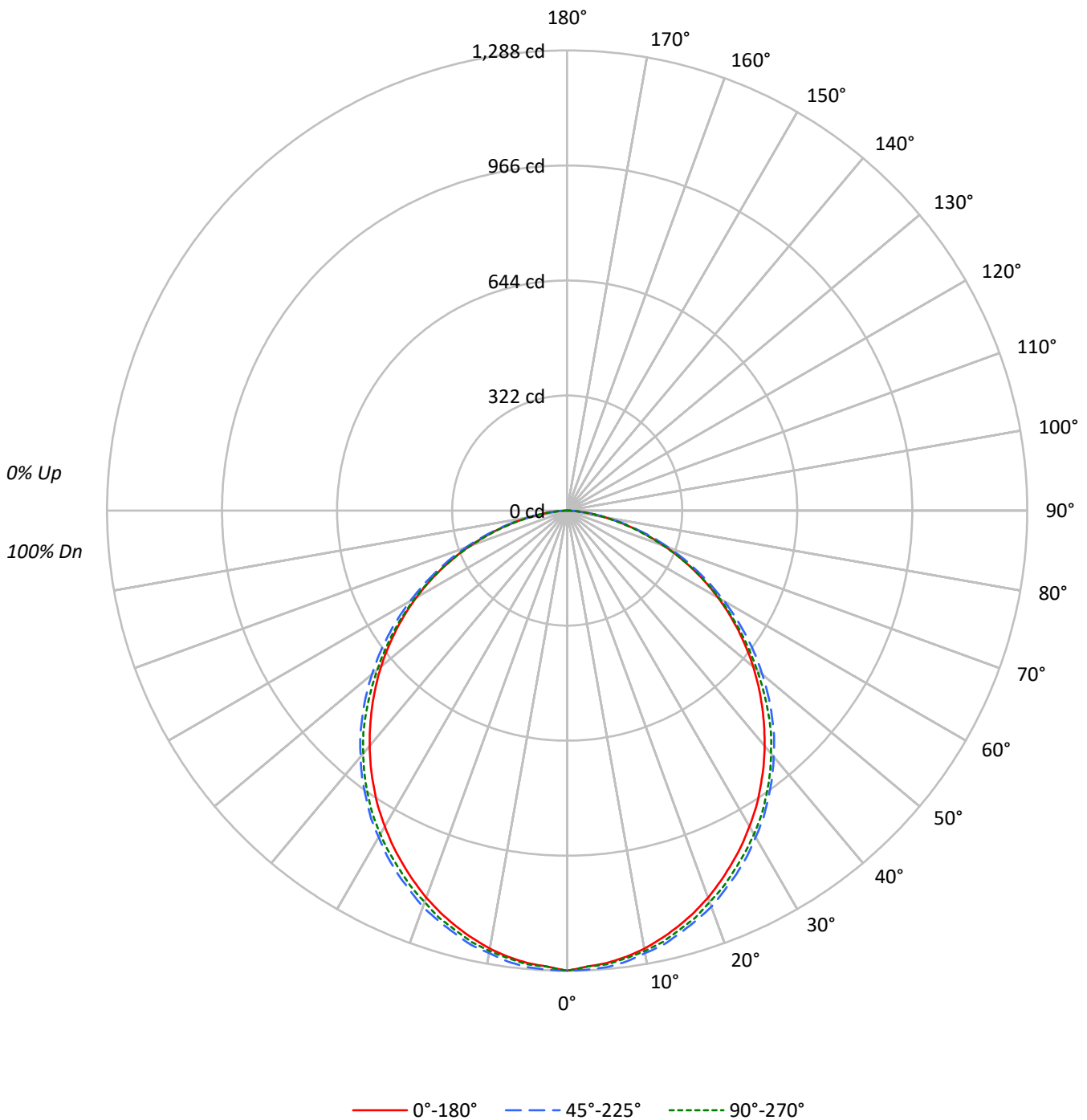
Lumens per Lamp: N/A
Luminaire Lumens: 3385.6 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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°	3465	3465	3465
5°	3433	3465	3444
10°	3402	3436	3420
15°	3355	3409	3385
20°	3302	3380	3340
25°	3238	3332	3293
30°	3172	3280	3250
35°	3101	3224	3194
40°	3020	3159	3119
45°	2935	3084	3025
50°	2847	2985	2907
55°	2744	2872	2784
60°	2627	2736	2652
65°	2476	2571	2478
70°	2278	2370	2253
75°	2006	2097	1975
80°	1630	1702	1612
85°	1136	1210	1179



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.3	3.6
10°-20°	343.7	10.2
20°-30°	512.6	15.1
30°-40°	607.4	17.9
40°-50°	614.6	18.2
50°-60°	536.8	15.9
60°-70°	392.3	11.6
70°-80°	208.7	6.2
80°-90°	48.2	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°	977.6	28.9
0°-40°	1585.0	46.8
0°-60°	2736.4	80.8
0°-90°	3385.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3385.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1288	1288	1288	1288	1288	
5°	1271	1273	1283	1286	1275	121
15°	1204	1212	1224	1231	1215	339
25°	1090	1104	1122	1126	1109	502
35°	944	959	981	988	972	590
45°	771	785	810	811	795	595
55°	585	597	612	603	593	523
65°	389	397	404	396	389	385
75°	193	197	202	194	190	205
85°	37	37	39	40	38	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1287.8	1287.8	1287.8	1287.8	1287.8
2.5°	1277.7	1281.9	1286.2	1288.0	1277.6
5°	1271.0	1273.4	1282.9	1285.9	1275.0
7.5°	1260.0	1263.6	1272.9	1274.2	1263.7
10°	1245.0	1251.4	1257.6	1264.3	1251.5
12.5°	1225.8	1234.5	1245.0	1246.2	1236.5
15°	1204.2	1212.2	1223.6	1231.0	1215.0
17.5°	1180.0	1187.8	1202.6	1203.9	1194.2
20°	1153.1	1162.7	1180.4	1183.5	1166.2
22.5°	1122.5	1135.5	1150.2	1153.2	1140.4
25°	1090.4	1103.8	1122.1	1126.2	1109.2
27.5°	1056.9	1069.7	1090.3	1093.2	1078.9
30°	1020.9	1033.0	1055.5	1060.5	1045.9
32.5°	984.4	996.5	1021.4	1025.6	1011.4
35°	943.9	958.6	981.3	988.2	972.2
37.5°	902.6	916.9	942.7	948.8	931.7
40°	859.8	874.0	899.3	904.4	887.9
42.5°	816.0	830.2	857.3	858.2	844.5
45°	771.3	785.0	810.3	810.9	795.0
47.5°	726.0	739.8	762.4	759.8	744.8
50°	680.1	693.3	713.0	707.9	694.3
52.5°	632.6	645.4	664.0	655.7	642.9
55°	584.8	596.7	612.2	603.4	593.4
57.5°	536.7	548.6	560.6	551.6	543.0
60°	488.1	498.6	508.4	499.2	492.7
62.5°	438.7	447.7	456.2	447.5	441.3
65°	388.8	396.7	403.7	395.7	389.1
67.5°	339.2	345.9	352.3	344.0	337.2
70°	289.5	295.3	301.2	292.6	286.3
72.5°	240.6	245.7	250.9	242.6	237.1
75°	192.9	197.4	201.7	194.3	190.0
77.5°	147.5	151.2	154.2	149.5	145.3
80°	105.2	108.0	109.8	107.9	104.0
82.5°	67.6	69.6	70.6	70.4	67.9
85°	36.8	37.4	39.2	39.6	38.2
87.5°	14.2	15.2	15.6	16.8	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)