

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: P489786

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-1STD-40-120-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: P489786
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387254)
Test Lab: INNOVATION CENTER
Issue Date: 3/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: CLM-24-4-INS-P12125-LD4-1STD-40-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

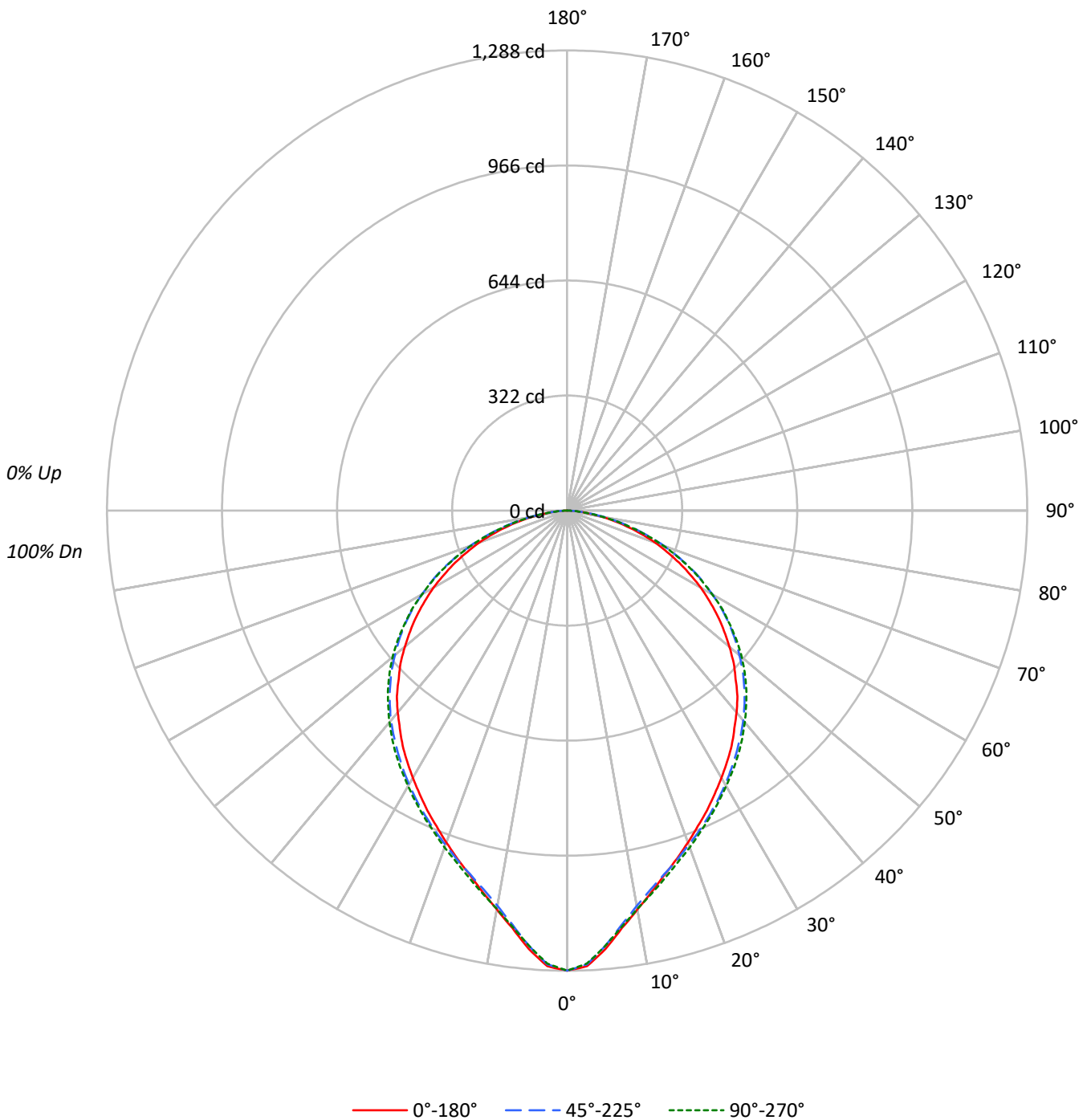
Lumens per Lamp: N/A
Luminaire Lumens: 2991.1 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1733	1733	1733
5°	1664	1652	1652
10°	1548	1534	1546
15°	1469	1467	1481
20°	1415	1426	1437
25°	1375	1397	1405
30°	1342	1375	1383
35°	1319	1357	1371
40°	1295	1348	1359
45°	1269	1335	1351
50°	1241	1318	1336
55°	1206	1299	1304
60°	1163	1263	1261
65°	1102	1215	1207
70°	1029	1133	1119
75°	908	1004	993
80°	738	817	778
85°	511	522	502



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.8	3.8
10°-20°	298.0	10.0
20°-30°	433.4	14.5
30°-40°	515.8	17.2
40°-50°	535.5	17.9
50°-60°	485.2	16.2
60°-70°	366.1	12.2
70°-80°	199.5	6.7
80°-90°	43.8	1.5
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°	845.3	28.3
0°-40°	1361.0	45.5
0°-60°	2381.7	79.6
0°-90°	2991.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2991.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1288	1288	1288	1288	1288	
5°	1232	1229	1223	1222	1223	114
15°	1055	1052	1053	1060	1063	298
25°	926	934	941	949	947	427
35°	803	812	826	839	835	502
45°	667	679	701	709	710	515
55°	514	526	554	558	556	459
65°	346	356	382	381	379	342
75°	175	182	193	194	191	186
85°	33	34	34	34	32	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1287.7	1287.7	1287.7	1287.7	1287.7
2.5°	1276.4	1275.2	1271.0	1269.4	1269.0
5°	1231.7	1228.8	1223.0	1222.4	1223.0
7.5°	1178.3	1175.1	1169.3	1171.6	1174.5
10°	1133.3	1125.2	1123.0	1126.2	1131.7
12.5°	1093.0	1086.6	1084.7	1093.0	1096.9
15°	1054.7	1052.2	1052.8	1059.9	1063.1
17.5°	1021.6	1020.0	1024.2	1029.7	1031.3
20°	988.5	991.7	995.6	1001.4	1003.3
22.5°	956.0	962.1	968.5	976.2	973.7
25°	926.1	933.8	941.2	948.9	946.6
27.5°	894.2	903.2	913.5	921.9	918.6
30°	863.6	874.9	884.9	895.1	890.3
32.5°	833.4	844.0	855.9	868.5	863.0
35°	802.8	812.5	826.3	838.9	834.7
37.5°	769.0	780.9	796.7	807.6	804.8
40°	737.5	748.4	767.4	774.5	773.8
42.5°	705.6	714.7	734.6	742.6	741.4
45°	666.7	678.6	701.4	709.2	709.8
47.5°	632.3	642.3	666.7	672.8	674.1
50°	592.7	605.3	629.7	637.1	638.1
52.5°	553.7	567.3	592.4	597.5	598.5
55°	514.2	526.4	553.7	557.6	556.0
57.5°	472.7	487.5	512.6	514.5	516.1
60°	432.1	445.0	469.5	472.0	468.5
62.5°	388.1	401.2	426.3	427.0	424.1
65°	346.2	356.2	381.6	381.0	379.0
67.5°	302.4	314.7	333.4	334.0	332.4
70°	261.6	270.0	288.0	288.3	284.5
72.5°	217.5	226.5	241.0	239.1	238.1
75°	174.7	181.8	193.1	194.4	191.1
77.5°	135.5	140.6	149.0	148.0	144.5
80°	95.2	99.4	105.5	104.3	100.4
82.5°	60.8	63.4	67.3	65.6	64.0
85°	33.1	33.5	33.8	33.5	32.5
87.5°	12.2	12.6	12.6	12.2	11.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)