

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: P488795

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-2LO-20-120-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: P488795
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-12-4-INS-P12125-LD4-2LO-20-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

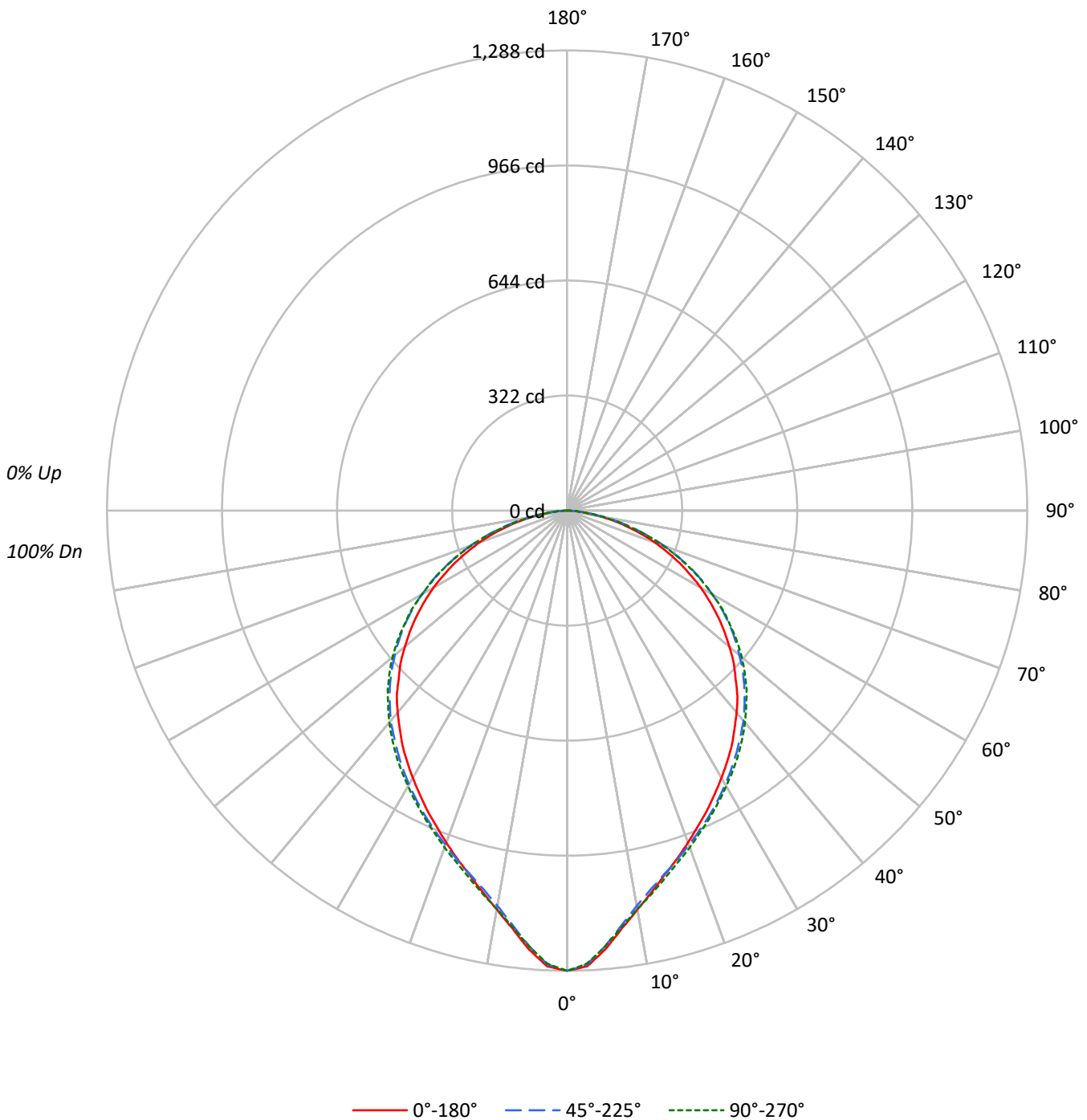
Lumens per Lamp: N/A
Luminaire Lumens: 2992.0 lumens
Efficiency: N/A
Efficacy: 63.9 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
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°	3466	3466	3466
5°	3328	3305	3305
10°	3098	3069	3093
15°	2939	2934	2963
20°	2832	2852	2874
25°	2750	2795	2812
30°	2684	2750	2767
35°	2638	2715	2743
40°	2591	2696	2719
45°	2538	2670	2702
50°	2482	2637	2672
55°	2413	2599	2609
60°	2326	2527	2522
65°	2205	2430	2414
70°	2059	2267	2238
75°	1817	2008	1988
80°	1477	1636	1556
85°	1025	1044	1003



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.8	3.8
10°-20°	298.1	10.0
20°-30°	433.5	14.5
30°-40°	515.9	17.2
40°-50°	535.7	17.9
50°-60°	485.3	16.2
60°-70°	366.2	12.2
70°-80°	199.5	6.7
80°-90°	43.9	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°	845.5	28.3
0°-40°	1361.4	45.5
0°-60°	2382.4	79.6
0°-90°	2992.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2992.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1288	1288	1288	1288	1288	
5°	1232	1229	1223	1223	1223	114
15°	1055	1052	1053	1060	1063	298
25°	926	934	942	949	947	427
35°	803	813	827	839	835	502
45°	667	679	702	709	710	516
55°	514	527	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°	1288.1	1288.1	1288.1	1288.1	1288.1
2.5°	1276.8	1275.5	1271.4	1269.7	1269.4
5°	1232.1	1229.2	1223.4	1222.8	1223.4
7.5°	1178.7	1175.4	1169.7	1171.9	1174.8
10°	1133.6	1125.6	1123.3	1126.5	1132.0
12.5°	1093.4	1086.9	1085.0	1093.4	1097.2
15°	1055.1	1052.5	1053.1	1060.2	1063.4
17.5°	1021.9	1020.3	1024.5	1030.0	1031.6
20°	988.8	992.0	995.9	1001.7	1003.6
22.5°	956.3	962.4	968.8	976.5	974.0
25°	926.3	934.0	941.5	949.2	946.9
27.5°	894.5	903.5	913.8	922.1	918.9
30°	863.9	875.1	885.1	895.4	890.6
32.5°	833.6	844.3	856.2	868.7	863.2
35°	803.1	812.7	826.6	839.1	834.9
37.5°	769.3	781.2	796.9	807.9	805.0
40°	737.7	748.7	767.6	774.7	774.1
42.5°	705.8	714.9	734.8	742.9	741.6
45°	666.9	678.8	701.7	709.4	710.0
47.5°	632.5	642.5	666.9	673.0	674.3
50°	592.9	605.4	629.9	637.3	638.3
52.5°	553.9	567.4	592.5	597.7	598.7
55°	514.3	526.6	553.9	557.8	556.2
57.5°	472.8	487.6	512.7	514.7	516.3
60°	432.2	445.1	469.6	472.2	468.6
62.5°	388.2	401.4	426.5	427.1	424.2
65°	346.3	356.3	381.7	381.1	379.1
67.5°	302.5	314.8	333.5	334.1	332.5
70°	261.7	270.0	288.1	288.4	284.5
72.5°	217.6	226.6	241.1	239.1	238.2
75°	174.8	181.9	193.1	194.4	191.2
77.5°	135.5	140.7	149.0	148.1	144.5
80°	95.3	99.5	105.6	104.3	100.4
82.5°	60.8	63.4	67.3	65.7	64.0
85°	33.2	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)