

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: P488371

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-2LO-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: P488371
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-12-2-INS-A12125-LD4-2LO-40-120-EDD
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

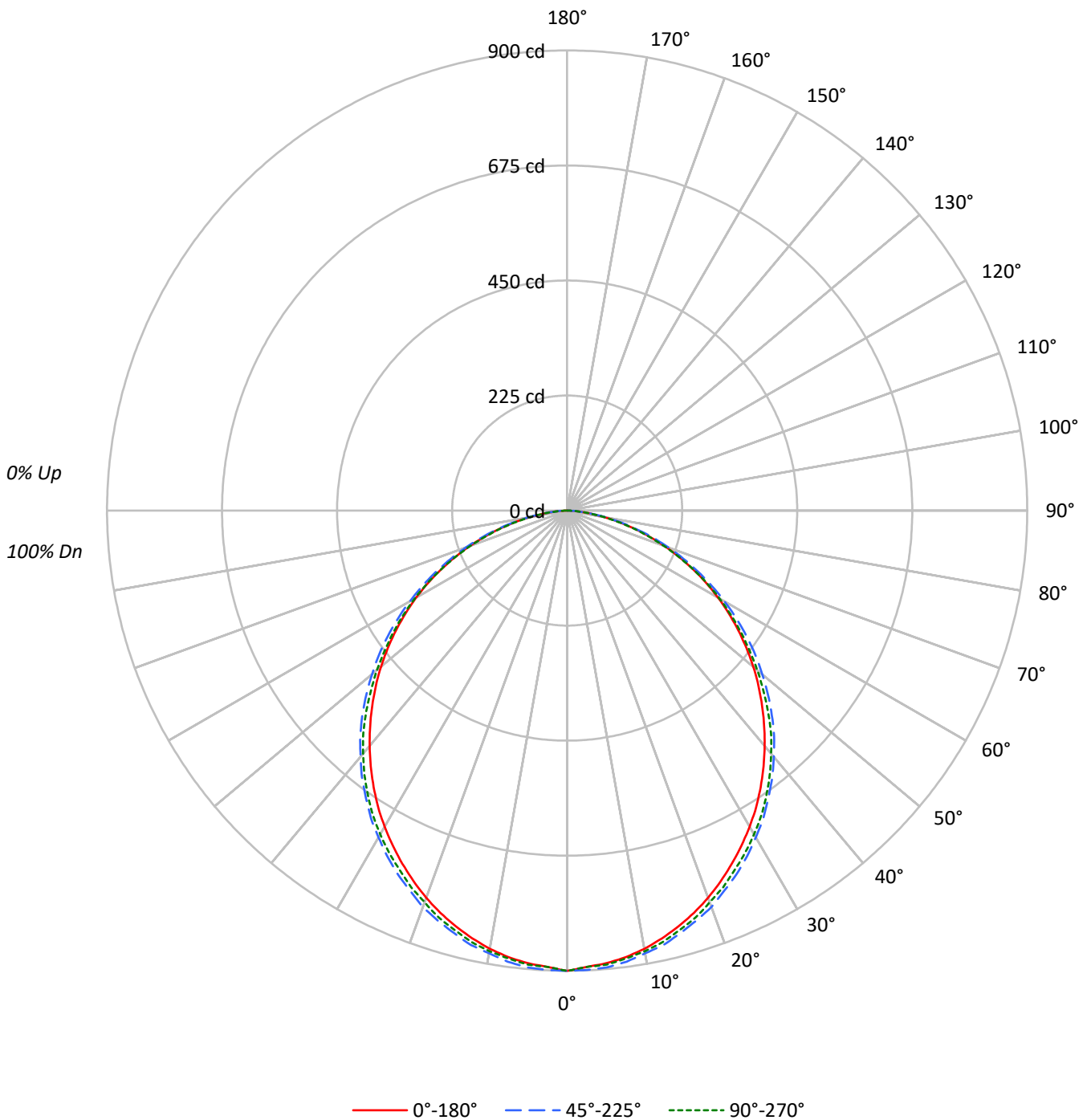
Lumens per Lamp: N/A
Luminaire Lumens: 2366.7 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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°	4845	4845	4845
5°	4800	4845	4815
10°	4756	4804	4781
15°	4690	4766	4733
20°	4616	4726	4669
25°	4526	4658	4605
30°	4435	4586	4543
35°	4335	4507	4465
40°	4222	4417	4361
45°	4104	4311	4230
50°	3980	4173	4064
55°	3836	4016	3892
60°	3673	3825	3707
65°	3461	3594	3464
70°	3185	3314	3150
75°	2805	2932	2761
80°	2278	2377	2253
85°	1587	1692	1649



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.8	3.6
10°-20°	240.3	10.2
20°-30°	358.3	15.1
30°-40°	424.6	17.9
40°-50°	429.6	18.2
50°-60°	375.2	15.9
60°-70°	274.2	11.6
70°-80°	145.9	6.2
80°-90°	33.7	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°	683.4	28.9
0°-40°	1108.0	46.8
0°-60°	1912.9	80.8
0°-90°	2366.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2366.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	900	900	900	900	900	
5°	888	890	897	899	891	84
15°	842	847	855	860	849	237
25°	762	772	784	787	775	351
35°	660	670	686	691	680	413
45°	539	549	566	567	556	416
55°	409	417	428	422	415	365
65°	272	277	282	277	272	269
75°	135	138	141	136	133	143
85°	26	26	27	28	27	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	900.2	900.2	900.2	900.2	900.2
2.5°	893.2	896.1	899.1	900.4	893.1
5°	888.5	890.2	896.8	898.9	891.3
7.5°	880.8	883.3	889.8	890.7	883.4
10°	870.3	874.8	879.1	883.8	874.9
12.5°	856.9	863.0	870.3	871.1	864.4
15°	841.8	847.4	855.4	860.5	849.4
17.5°	824.9	830.3	840.7	841.6	834.8
20°	806.0	812.8	825.2	827.3	815.2
22.5°	784.7	793.8	804.1	806.1	797.2
25°	762.2	771.6	784.4	787.3	775.4
27.5°	738.8	747.8	762.1	764.2	754.2
30°	713.7	722.1	737.9	741.3	731.1
32.5°	688.1	696.6	714.0	716.9	707.0
35°	659.8	670.1	686.0	690.8	679.6
37.5°	630.9	641.0	659.0	663.3	651.3
40°	601.0	611.0	628.7	632.2	620.7
42.5°	570.4	580.4	599.3	599.9	590.3
45°	539.2	548.8	566.4	566.9	555.7
47.5°	507.5	517.2	532.9	531.1	520.6
50°	475.4	484.6	498.4	494.8	485.4
52.5°	442.2	451.1	464.2	458.4	449.4
55°	408.8	417.1	428.0	421.8	414.8
57.5°	375.2	383.5	391.9	385.6	379.6
60°	341.2	348.5	355.4	349.0	344.4
62.5°	306.7	313.0	318.9	312.8	308.5
65°	271.8	277.3	282.2	276.6	272.0
67.5°	237.1	241.8	246.3	240.5	235.7
70°	202.4	206.4	210.6	204.6	200.2
72.5°	168.2	171.7	175.4	169.6	165.7
75°	134.9	138.0	141.0	135.8	132.8
77.5°	103.1	105.7	107.8	104.5	101.6
80°	73.5	75.5	76.7	75.4	72.7
82.5°	47.3	48.7	49.3	49.2	47.5
85°	25.7	26.2	27.4	27.7	26.7
87.5°	9.9	10.6	10.9	11.7	10.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)