

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: P489407

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-1LO-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: P489407
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-24-4-INS-A12125-LD4-1LO-20-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

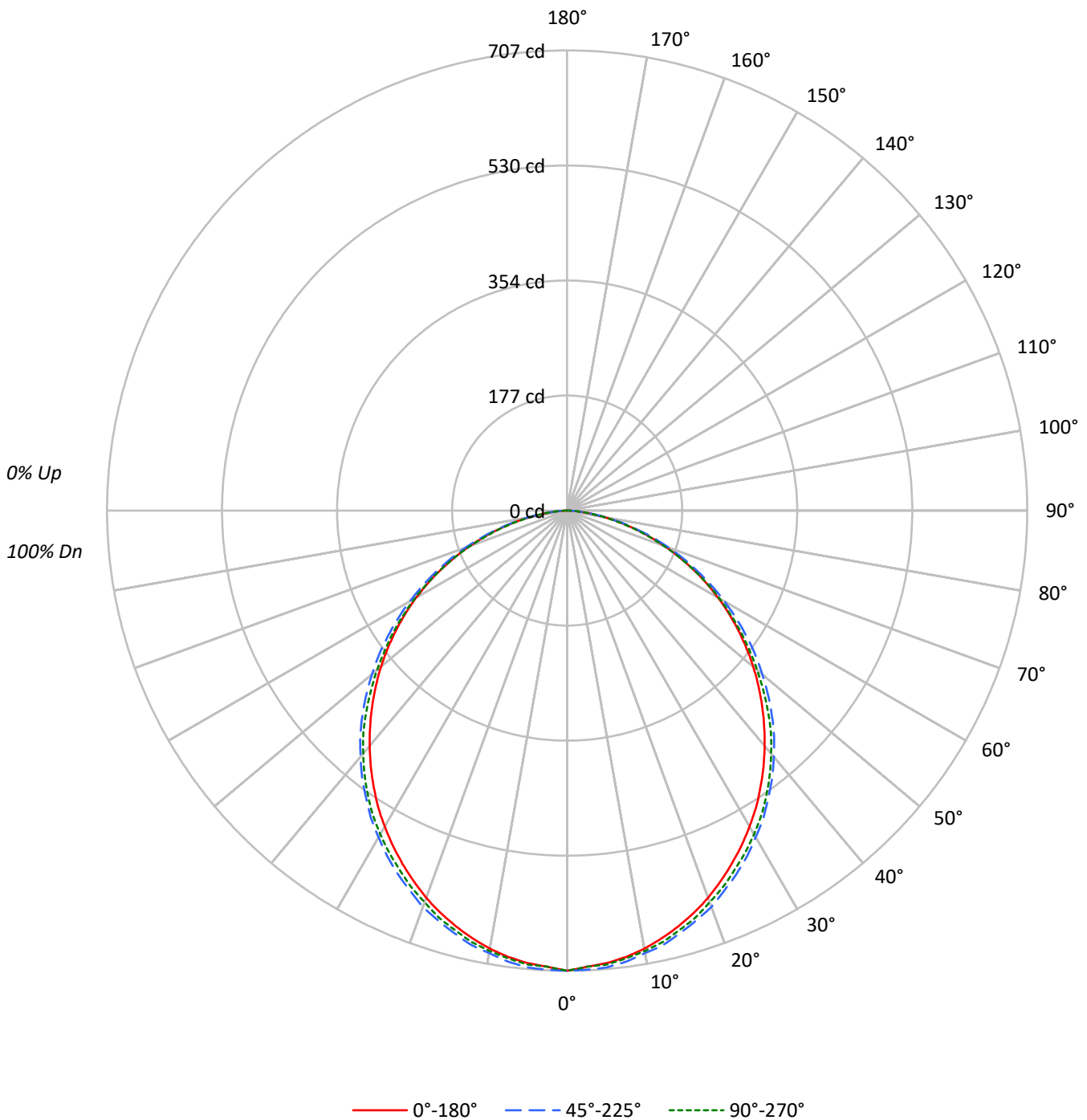
Lumens per Lamp: N/A
Luminaire Lumens: 1858.8 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	951	951	951
5°	942	951	945
10°	934	943	939
15°	921	936	929
20°	906	928	917
25°	889	915	904
30°	871	900	892
35°	851	885	877
40°	829	867	856
45°	806	847	831
50°	782	819	798
55°	753	788	764
60°	721	751	728
65°	680	706	680
70°	625	651	618
75°	551	575	542
80°	448	467	442
85°	312	332	324



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.6	3.6
10°-20°	188.7	10.2
20°-30°	281.4	15.1
30°-40°	333.5	17.9
40°-50°	337.5	18.2
50°-60°	294.7	15.9
60°-70°	215.4	11.6
70°-80°	114.6	6.2
80°-90°	26.5	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°	536.7	28.9
0°-40°	870.2	46.8
0°-60°	1502.4	80.8
0°-90°	1858.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1858.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	707	707	707	707	707	
5°	698	699	704	706	700	66
15°	661	666	672	676	667	186
25°	599	606	616	618	609	276
35°	518	526	539	542	534	324
45°	424	431	445	445	436	327
55°	321	328	336	331	326	287
65°	214	218	222	217	214	211
75°	106	108	111	107	104	113
85°	20	21	22	22	21	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	707.0	707.0	707.0	707.0	707.0
2.5°	701.5	703.8	706.1	707.2	701.4
5°	697.8	699.1	704.4	706.0	700.0
7.5°	691.8	693.8	698.8	699.6	693.8
10°	683.5	687.1	690.4	694.1	687.1
12.5°	673.0	677.8	683.5	684.2	678.9
15°	661.1	665.5	671.8	675.9	667.1
17.5°	647.9	652.1	660.2	661.0	655.7
20°	633.1	638.4	648.1	649.8	640.3
22.5°	616.3	623.4	631.5	633.1	626.1
25°	598.7	606.0	616.0	618.3	609.0
27.5°	580.2	587.3	598.6	600.2	592.3
30°	560.5	567.1	579.5	582.2	574.2
32.5°	540.5	547.1	560.8	563.1	555.3
35°	518.2	526.3	538.8	542.5	533.8
37.5°	495.5	503.4	517.6	520.9	511.5
40°	472.0	479.8	493.8	496.6	487.5
42.5°	448.0	455.8	470.7	471.2	463.6
45°	423.5	431.0	444.9	445.2	436.5
47.5°	398.6	406.2	418.6	417.2	408.9
50°	373.4	380.6	391.4	388.6	381.2
52.5°	347.3	354.3	364.6	360.0	353.0
55°	321.1	327.6	336.1	331.3	325.8
57.5°	294.7	301.2	307.8	302.8	298.1
60°	268.0	273.7	279.1	274.1	270.5
62.5°	240.9	245.8	250.5	245.7	242.3
65°	213.5	217.8	221.7	217.2	213.6
67.5°	186.2	189.9	193.4	188.9	185.1
70°	159.0	162.1	165.4	160.7	157.2
72.5°	132.1	134.9	137.8	133.2	130.2
75°	105.9	108.4	110.7	106.7	104.3
77.5°	81.0	83.0	84.6	82.1	79.8
80°	57.8	59.3	60.3	59.2	57.1
82.5°	37.1	38.2	38.7	38.7	37.3
85°	20.2	20.6	21.5	21.7	21.0
87.5°	7.8	8.3	8.5	9.2	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)