

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: P488856

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-1HI-27-120-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: P488856
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-LD4-1HI-27-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

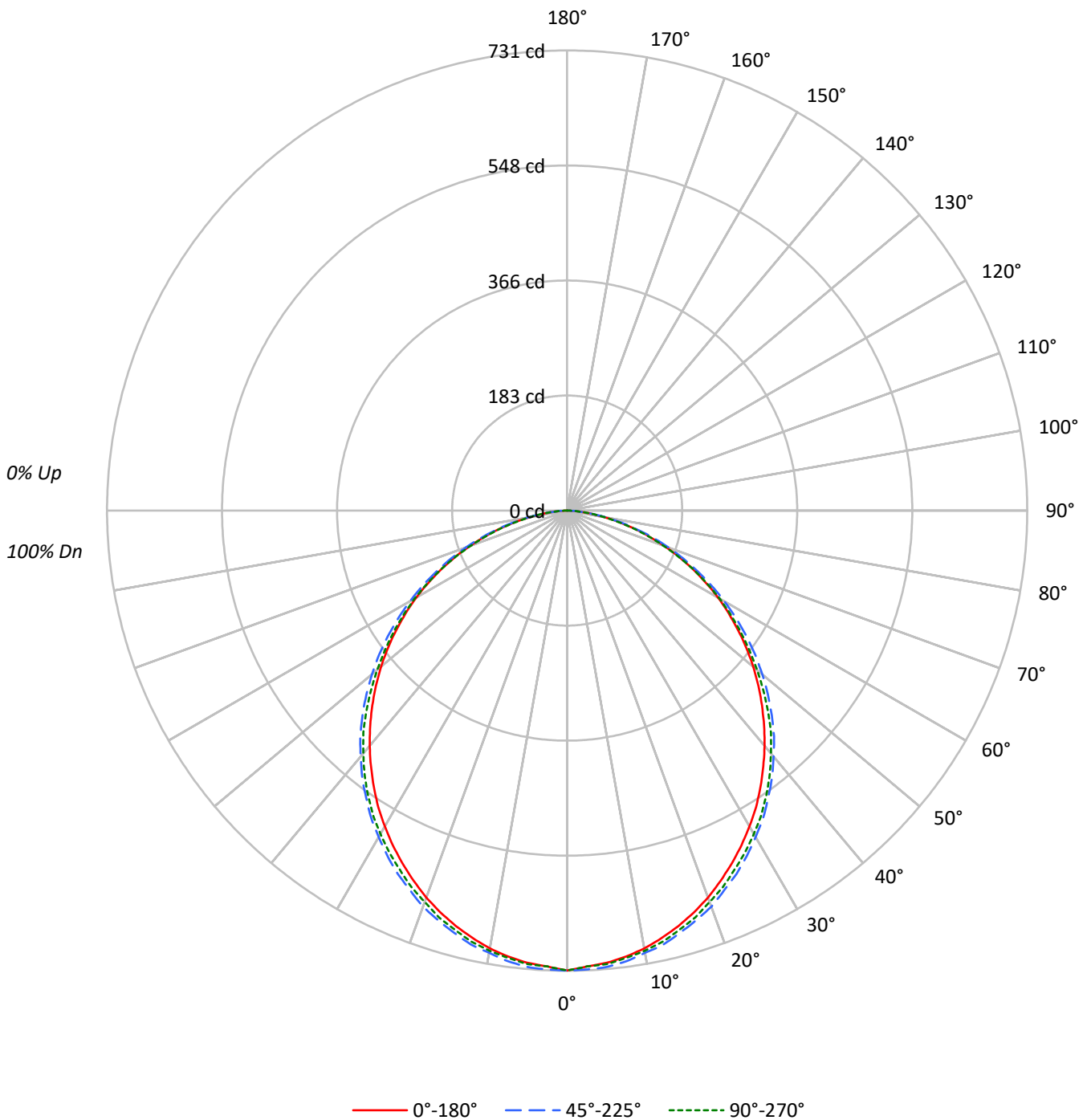
Lumens per Lamp: N/A
Luminaire Lumens: 1920.7 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
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°	1966	1966	1966
5°	1948	1966	1954
10°	1930	1949	1940
15°	1903	1934	1920
20°	1873	1918	1895
25°	1837	1890	1868
30°	1800	1861	1844
35°	1759	1829	1812
40°	1714	1792	1769
45°	1665	1749	1716
50°	1615	1693	1649
55°	1557	1629	1580
60°	1490	1552	1504
65°	1405	1458	1405
70°	1293	1345	1278
75°	1138	1189	1121
80°	925	965	914
85°	645	685	670



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.8	3.6
10°-20°	195.0	10.2
20°-30°	290.8	15.1
30°-40°	344.6	17.9
40°-50°	348.7	18.2
50°-60°	304.5	15.9
60°-70°	222.5	11.6
70°-80°	118.4	6.2
80°-90°	27.4	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°	554.6	28.9
0°-40°	899.2	46.8
0°-60°	1552.4	80.8
0°-90°	1920.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1920.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	731	731	731	731	731	
5°	721	722	728	730	723	68
15°	683	688	694	698	689	193
25°	619	626	637	639	629	285
35°	536	544	557	561	552	335
45°	438	445	460	460	451	338
55°	332	338	347	342	337	297
65°	221	225	229	224	221	218
75°	110	112	114	110	108	116
85°	21	21	22	22	22	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	730.6	730.6	730.6	730.6	730.6
2.5°	724.9	727.2	729.7	730.7	724.8
5°	721.1	722.4	727.8	729.5	723.3
7.5°	714.8	716.9	722.1	722.9	716.9
10°	706.3	709.9	713.4	717.2	710.0
12.5°	695.4	700.3	706.3	707.0	701.5
15°	683.1	687.7	694.2	698.4	689.3
17.5°	669.4	673.9	682.2	683.0	677.5
20°	654.1	659.6	669.7	671.4	661.6
22.5°	636.8	644.2	652.5	654.2	647.0
25°	618.6	626.2	636.6	638.9	629.3
27.5°	599.6	606.9	618.5	620.2	612.1
30°	579.2	586.0	598.8	601.6	593.3
32.5°	558.5	565.3	579.5	581.8	573.8
35°	535.5	543.9	556.7	560.6	551.5
37.5°	512.0	520.2	534.8	538.3	528.6
40°	487.8	495.8	510.2	513.1	503.7
42.5°	462.9	471.0	486.4	486.8	479.1
45°	437.6	445.4	459.7	460.0	451.0
47.5°	411.9	419.7	432.5	431.0	422.5
50°	385.8	393.3	404.5	401.6	393.9
52.5°	358.9	366.1	376.7	372.0	364.8
55°	331.8	338.5	347.3	342.3	336.7
57.5°	304.5	311.2	318.0	312.9	308.0
60°	276.9	282.8	288.4	283.2	279.5
62.5°	248.9	254.0	258.8	253.8	250.3
65°	220.6	225.1	229.0	224.5	220.7
67.5°	192.4	196.2	199.9	195.2	191.3
70°	164.3	167.5	170.9	166.0	162.4
72.5°	136.5	139.4	142.3	137.6	134.5
75°	109.5	112.0	114.4	110.2	107.8
77.5°	83.7	85.8	87.5	84.8	82.4
80°	59.7	61.3	62.3	61.2	59.0
82.5°	38.4	39.5	40.0	40.0	38.5
85°	20.9	21.2	22.2	22.5	21.7
87.5°	8.1	8.6	8.8	9.5	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)