

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: P489507

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-4HI-30-120-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: P489507
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-LD4-4HI-30-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

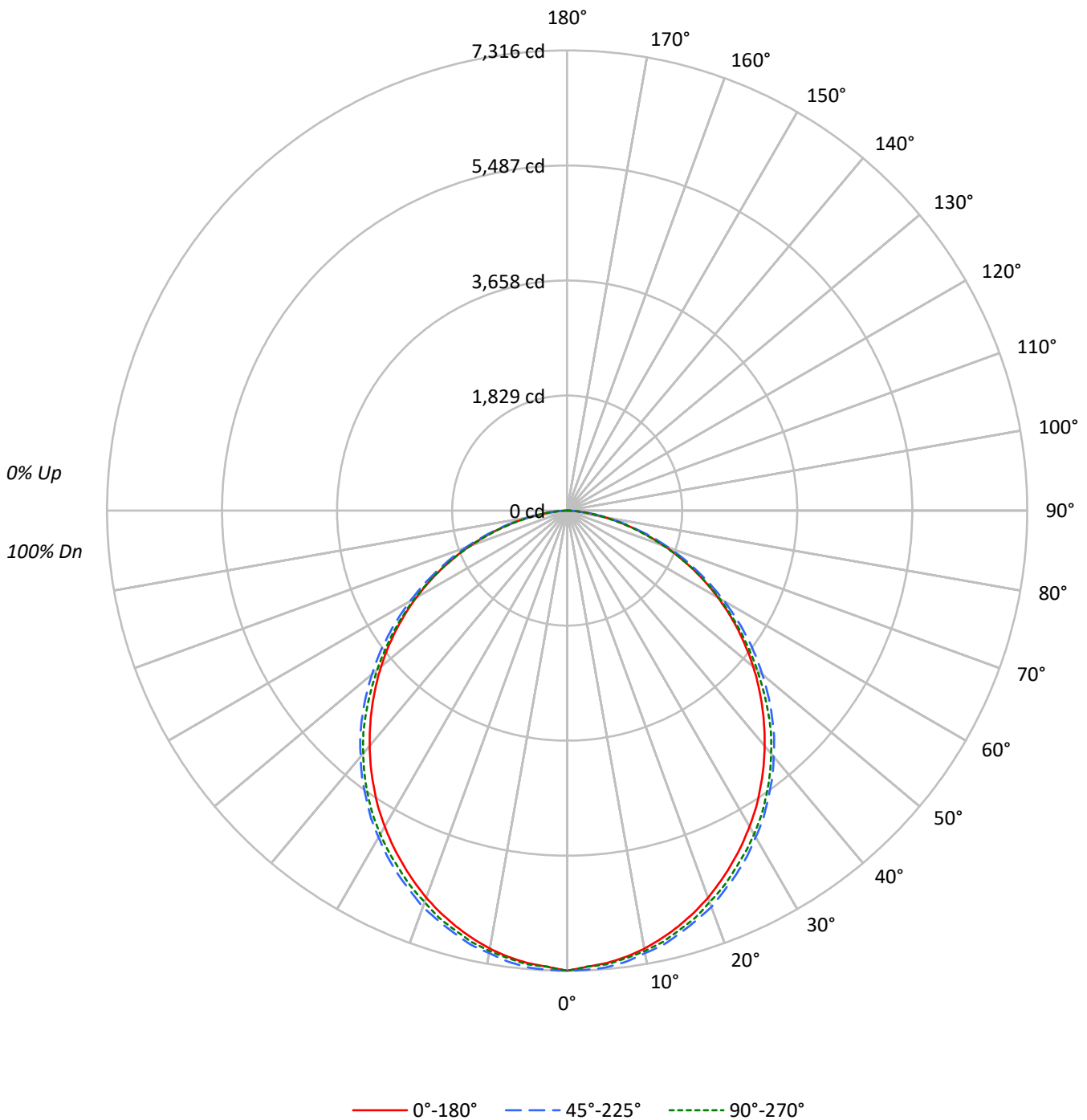
Lumens per Lamp: N/A
Luminaire Lumens: 19232.9 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 172.8
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	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°	9843	9843	9843
5°	9752	9844	9783
10°	9663	9760	9714
15°	9529	9683	9615
20°	9379	9602	9486
25°	9196	9463	9354
30°	9010	9316	9231
35°	8807	9157	9071
40°	8578	8974	8860
45°	8338	8758	8593
50°	8087	8478	8256
55°	7794	8158	7908
60°	7462	7771	7532
65°	7032	7301	7037
70°	6471	6731	6399
75°	5698	5955	5611
80°	4630	4831	4577
85°	3223	3436	3353



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	689.0	3.6
10°-20°	1952.4	10.2
20°-30°	2911.9	15.1
30°-40°	3450.7	17.9
40°-50°	3491.5	18.2
50°-60°	3049.4	15.9
60°-70°	2228.3	11.6
70°-80°	1185.7	6.2
80°-90°	274.0	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°	5553.3	28.9
0°-40°	9004.0	46.8
0°-60°	15544.9	80.8
0°-90°	19232.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19232.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7316	7316	7316	7316	7316	
5°	7220	7234	7288	7305	7243	685
15°	6841	6886	6951	6993	6902	1928
25°	6194	6270	6374	6398	6301	2854
35°	5362	5446	5575	5614	5523	3353
45°	4382	4460	4603	4607	4516	3380
55°	3322	3390	3478	3428	3371	2970
65°	2209	2254	2293	2248	2210	2186
75°	1096	1121	1146	1104	1079	1165
85°	209	213	223	225	217	264
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7315.5	7315.5	7315.5	7315.5	7315.5
2.5°	7258.3	7282.0	7306.4	7317.0	7257.6
5°	7220.2	7234.0	7288.1	7304.8	7243.1
7.5°	7157.7	7178.3	7230.9	7238.5	7179.1
10°	7072.4	7109.0	7144.0	7182.1	7109.7
12.5°	6963.4	7012.9	7072.4	7079.2	7024.4
15°	6840.7	6886.4	6951.2	6993.1	6902.4
17.5°	6703.5	6747.7	6831.5	6839.1	6784.3
20°	6550.3	6605.1	6705.8	6723.3	6625.0
22.5°	6376.5	6450.4	6534.3	6551.0	6478.6
25°	6194.3	6270.5	6374.2	6397.8	6301.0
27.5°	6003.8	6077.0	6193.6	6210.3	6128.8
30°	5799.5	5868.1	5996.2	6024.4	5941.3
32.5°	5592.2	5660.8	5802.6	5826.2	5745.4
35°	5362.0	5445.9	5574.7	5613.5	5522.8
37.5°	5127.3	5208.8	5355.2	5390.2	5292.7
40°	4884.1	4964.9	5109.0	5137.9	5044.2
42.5°	4635.6	4716.4	4870.4	4875.0	4797.2
45°	4381.8	4459.6	4602.9	4606.7	4516.0
47.5°	4124.2	4202.7	4330.8	4316.3	4230.9
50°	3863.5	3938.2	4050.3	4021.3	3944.3
52.5°	3593.7	3666.1	3772.1	3724.8	3652.4
55°	3322.4	3389.5	3477.9	3427.6	3371.2
57.5°	3048.8	3116.6	3184.4	3133.4	3084.6
60°	2772.9	2832.3	2887.9	2836.1	2798.8
62.5°	2492.4	2543.4	2591.4	2541.9	2506.8
65°	2208.8	2253.8	2293.4	2247.7	2210.4
67.5°	1926.8	1964.9	2001.5	1954.3	1915.4
70°	1644.8	1677.6	1711.1	1662.3	1626.5
72.5°	1366.6	1395.6	1425.3	1378.0	1346.8
75°	1096.0	1121.2	1145.6	1103.7	1079.3
77.5°	837.6	859.0	875.8	849.1	825.5
80°	597.6	613.6	623.5	612.8	590.7
82.5°	384.1	395.6	400.9	400.2	385.7
85°	208.8	212.7	222.6	224.8	217.2
87.5°	80.8	86.1	88.4	95.3	87.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)