

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: P488974

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-4LO-20-120-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: P488974
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-LD4-4LO-20-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

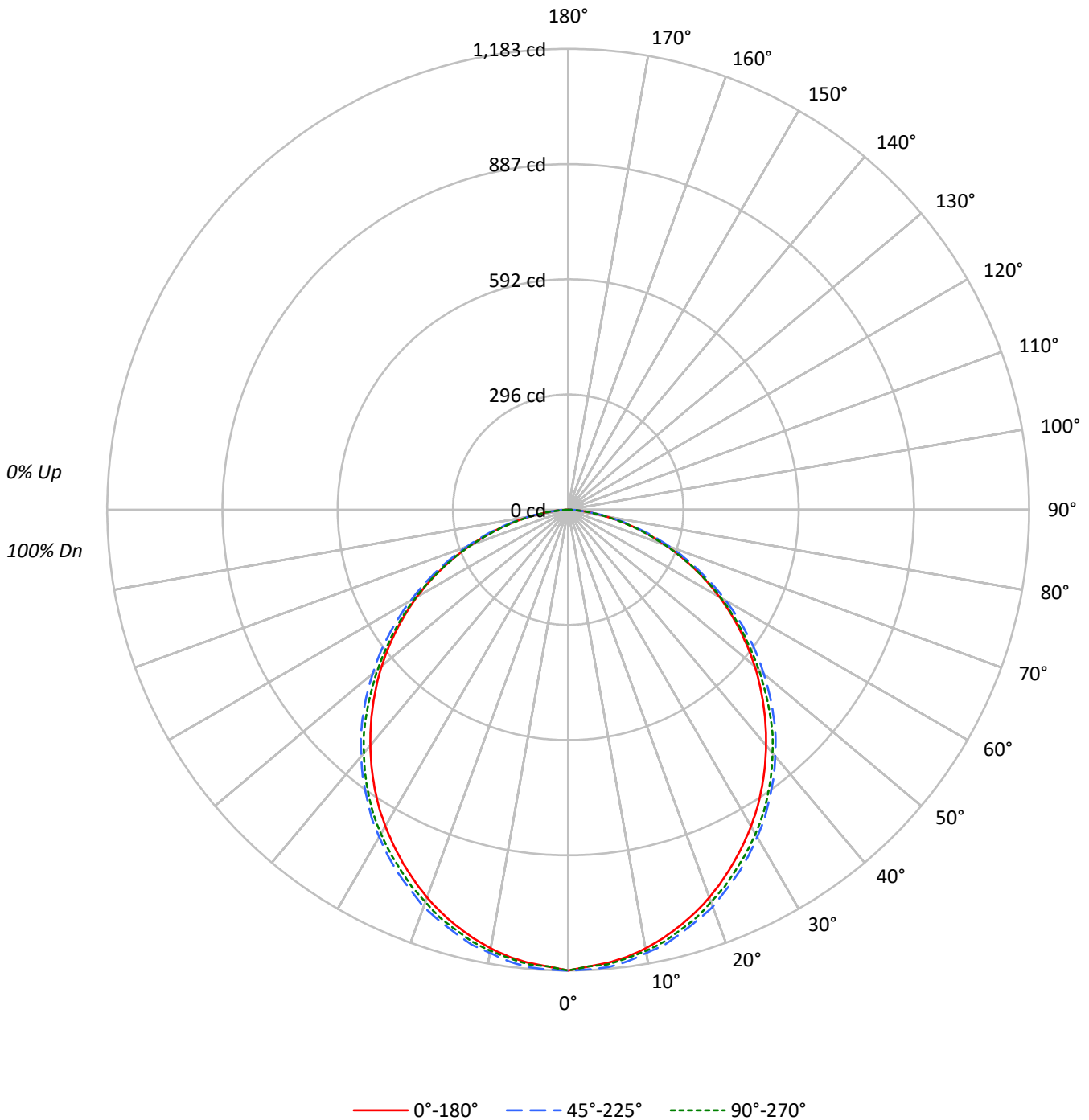
Lumens per Lamp: N/A
Luminaire Lumens: 3110.6 lumens
Efficiency: N/A
Efficacy: 66.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	3184	3184	3184
5°	3155	3184	3165
10°	3125	3157	3142
15°	3082	3132	3110
20°	3034	3106	3068
25°	2975	3061	3026
30°	2915	3013	2986
35°	2849	2962	2934
40°	2775	2903	2866
45°	2697	2833	2780
50°	2616	2743	2671
55°	2521	2639	2558
60°	2414	2514	2436
65°	2274	2362	2276
70°	2093	2177	2070
75°	1843	1927	1815
80°	1497	1562	1480
85°	1044	1112	1084



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.4	3.6
10°-20°	315.8	10.2
20°-30°	471.0	15.1
30°-40°	558.1	17.9
40°-50°	564.7	18.2
50°-60°	493.2	15.9
60°-70°	360.4	11.6
70°-80°	191.8	6.2
80°-90°	44.3	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°	898.1	28.9
0°-40°	1456.2	46.8
0°-60°	2514.1	80.8
0°-90°	3110.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3110.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1183	1183	1183	1183	1183	
5°	1168	1170	1179	1181	1172	111
15°	1106	1114	1124	1131	1116	312
25°	1002	1014	1031	1035	1019	462
35°	867	881	902	908	893	542
45°	709	721	744	745	730	547
55°	537	548	562	554	545	480
65°	357	364	371	364	358	353
75°	177	181	185	178	175	188
85°	34	34	36	36	35	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1183.2	1183.2	1183.2	1183.2	1183.2
2.5°	1173.9	1177.7	1181.7	1183.4	1173.8
5°	1167.8	1170.0	1178.7	1181.4	1171.5
7.5°	1157.6	1161.0	1169.5	1170.7	1161.1
10°	1143.8	1149.8	1155.4	1161.6	1149.9
12.5°	1126.2	1134.2	1143.8	1144.9	1136.1
15°	1106.4	1113.8	1124.2	1131.0	1116.3
17.5°	1084.2	1091.3	1104.9	1106.1	1097.2
20°	1059.4	1068.3	1084.5	1087.4	1071.5
22.5°	1031.3	1043.2	1056.8	1059.5	1047.8
25°	1001.8	1014.2	1030.9	1034.7	1019.1
27.5°	971.0	982.8	1001.7	1004.4	991.2
30°	938.0	949.1	969.8	974.3	960.9
32.5°	904.4	915.5	938.5	942.3	929.2
35°	867.2	880.8	901.6	907.9	893.2
37.5°	829.2	842.4	866.1	871.8	856.0
40°	789.9	803.0	826.3	831.0	815.8
42.5°	749.7	762.8	787.7	788.4	775.9
45°	708.7	721.3	744.4	745.1	730.4
47.5°	667.0	679.7	700.4	698.1	684.3
50°	624.9	636.9	655.1	650.4	637.9
52.5°	581.2	592.9	610.1	602.4	590.7
55°	537.3	548.2	562.5	554.4	545.2
57.5°	493.1	504.1	515.0	506.8	498.9
60°	448.5	458.1	467.1	458.7	452.7
62.5°	403.1	411.4	419.1	411.1	405.4
65°	357.2	364.5	370.9	363.5	357.5
67.5°	311.6	317.8	323.7	316.1	309.8
70°	266.0	271.3	276.7	268.9	263.1
72.5°	221.0	225.7	230.5	222.9	217.8
75°	177.3	181.3	185.3	178.5	174.6
77.5°	135.5	138.9	141.6	137.3	133.5
80°	96.6	99.2	100.8	99.1	95.5
82.5°	62.1	64.0	64.8	64.7	62.4
85°	33.8	34.4	36.0	36.4	35.1
87.5°	13.1	13.9	14.3	15.4	14.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)