

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: P488614

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-3LO-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: P488614
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-12-4-INS-A12125-LD4-3LO-20-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

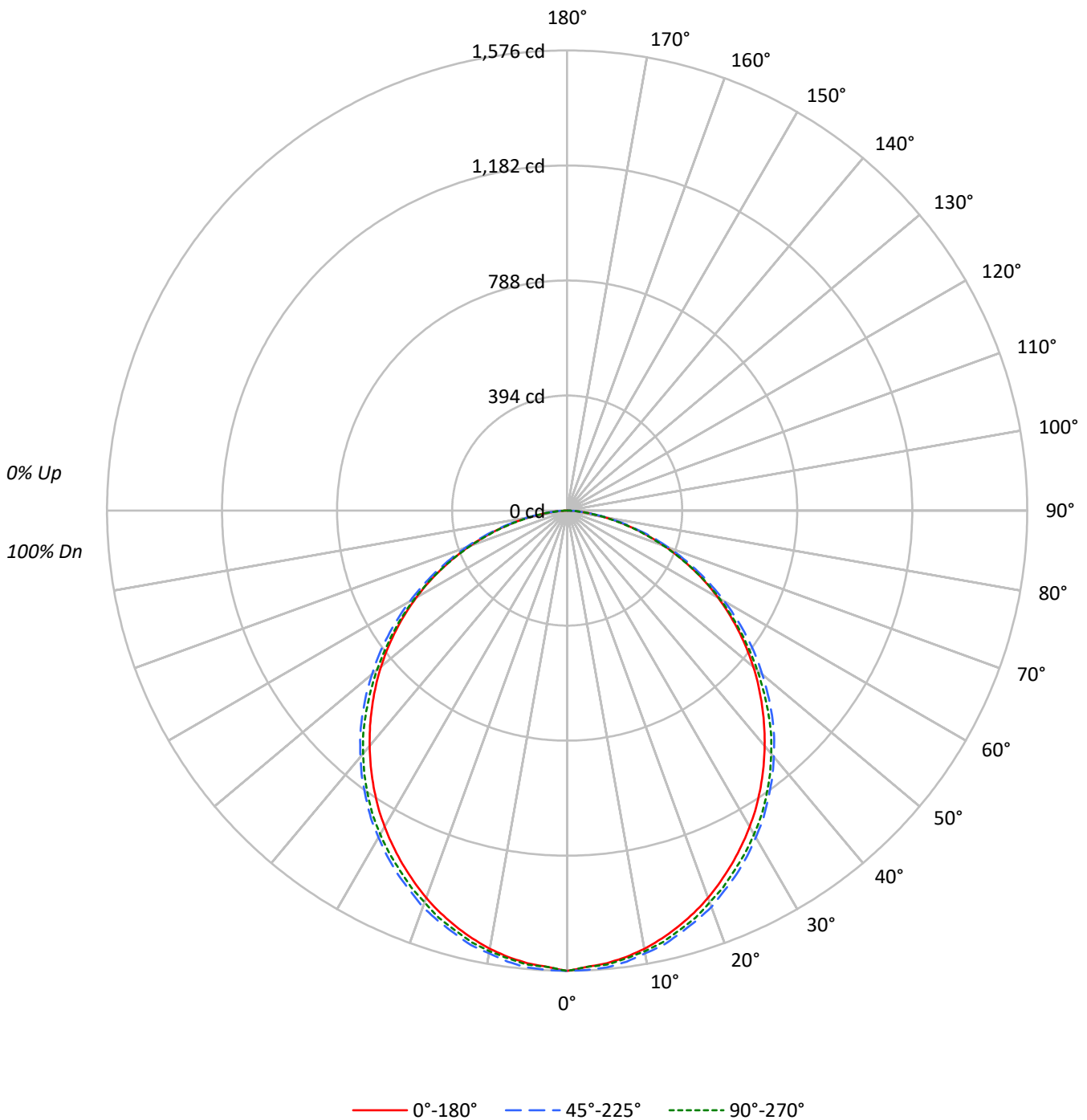
Lumens per Lamp: N/A
Luminaire Lumens: 4144.7 lumens
Efficiency: N/A
Efficacy: 59.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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	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					100			
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85					85			
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60					60			
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51					51			
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45					45			
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39					39			
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4242	4242	4242
5°	4203	4243	4216
10°	4165	4207	4186
15°	4107	4173	4144
20°	4042	4138	4088
25°	3964	4078	4032
30°	3883	4015	3978
35°	3796	3946	3910
40°	3697	3868	3818
45°	3594	3775	3704
50°	3486	3654	3558
55°	3359	3516	3408
60°	3216	3350	3246
65°	3031	3147	3033
70°	2789	2901	2758
75°	2456	2567	2418
80°	1996	2083	1973
85°	1389	1482	1445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.5	3.6
10°-20°	420.7	10.2
20°-30°	627.5	15.1
30°-40°	743.6	17.9
40°-50°	752.4	18.2
50°-60°	657.1	15.9
60°-70°	480.2	11.6
70°-80°	255.5	6.2
80°-90°	59.1	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°	1196.7	28.9
0°-40°	1940.4	46.8
0°-60°	3349.9	80.8
0°-90°	4144.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4144.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1576	1576	1576	1576	1576	
5°	1556	1559	1571	1574	1561	148
15°	1474	1484	1498	1507	1488	416
25°	1335	1351	1374	1379	1358	615
35°	1156	1174	1201	1210	1190	723
45°	944	961	992	993	973	728
55°	716	730	750	739	726	640
65°	476	486	494	484	476	471
75°	236	242	247	238	233	251
85°	45	46	48	48	47	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1576.5	1576.5	1576.5	1576.5	1576.5
2.5°	1564.2	1569.3	1574.5	1576.8	1564.0
5°	1556.0	1558.9	1570.6	1574.2	1560.9
7.5°	1542.5	1546.9	1558.3	1559.9	1547.1
10°	1524.1	1532.0	1539.5	1547.8	1532.1
12.5°	1500.6	1511.3	1524.1	1525.6	1513.8
15°	1474.2	1484.0	1498.0	1507.0	1487.5
17.5°	1444.6	1454.1	1472.2	1473.8	1462.0
20°	1411.6	1423.4	1445.1	1448.9	1427.7
22.5°	1374.1	1390.1	1408.1	1411.8	1396.1
25°	1334.9	1351.3	1373.6	1378.7	1357.9
27.5°	1293.8	1309.6	1334.7	1338.3	1320.8
30°	1249.8	1264.6	1292.2	1298.3	1280.3
32.5°	1205.1	1219.9	1250.5	1255.5	1238.1
35°	1155.5	1173.6	1201.3	1209.7	1190.2
37.5°	1104.9	1122.5	1154.0	1161.6	1140.6
40°	1052.5	1069.9	1101.0	1107.2	1087.0
42.5°	999.0	1016.4	1049.6	1050.6	1033.8
45°	944.3	961.0	991.9	992.7	973.2
47.5°	888.8	905.7	933.3	930.2	911.8
50°	832.6	848.7	872.8	866.6	850.0
52.5°	774.5	790.1	812.9	802.7	787.1
55°	716.0	730.4	749.5	738.6	726.5
57.5°	657.0	671.6	686.2	675.2	664.7
60°	597.6	610.4	622.4	611.2	603.1
62.5°	537.1	548.1	558.5	547.8	540.2
65°	476.0	485.7	494.2	484.4	476.3
67.5°	415.2	423.4	431.3	421.1	412.8
70°	354.5	361.5	368.7	358.2	350.5
72.5°	294.5	300.7	307.2	297.0	290.2
75°	236.2	241.6	246.9	237.8	232.6
77.5°	180.5	185.1	188.7	183.0	177.9
80°	128.8	132.2	134.4	132.1	127.3
82.5°	82.8	85.2	86.4	86.2	83.1
85°	45.0	45.8	48.0	48.5	46.8
87.5°	17.4	18.6	19.1	20.5	18.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)