

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: P488538

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-1HI-40-120-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: P488538
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-LD4-1HI-40-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

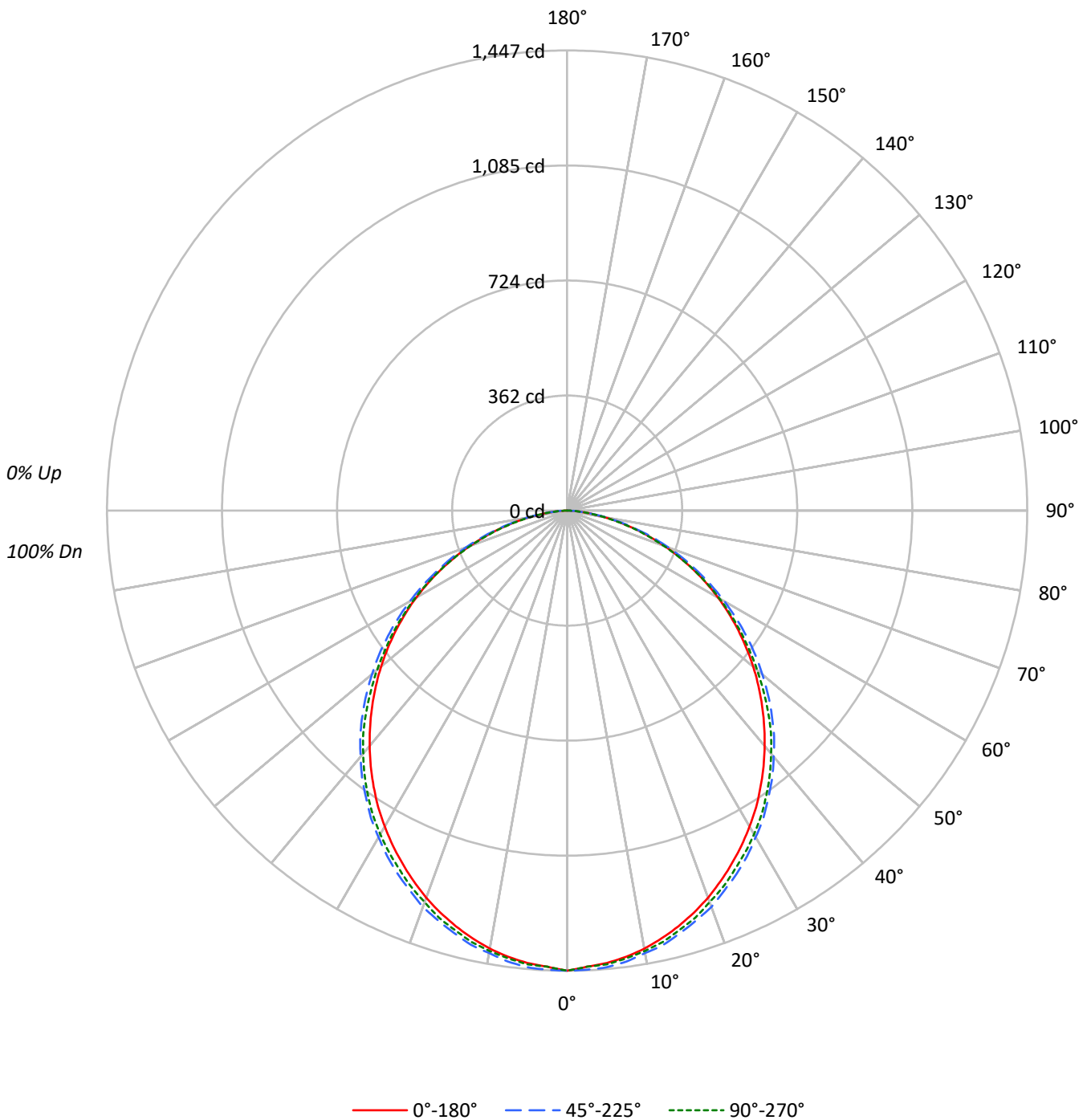
Lumens per Lamp: N/A
Luminaire Lumens: 3804.1 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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°	3894	3894	3894
5°	3858	3894	3870
10°	3822	3861	3842
15°	3769	3830	3803
20°	3710	3798	3753
25°	3638	3744	3700
30°	3564	3685	3651
35°	3484	3622	3589
40°	3393	3550	3505
45°	3298	3465	3399
50°	3199	3354	3266
55°	3083	3227	3128
60°	2951	3074	2979
65°	2782	2888	2784
70°	2559	2662	2531
75°	2254	2356	2220
80°	1832	1911	1810
85°	1275	1359	1328



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.3	3.6
10°-20°	386.2	10.2
20°-30°	576.0	15.1
30°-40°	682.5	17.9
40°-50°	690.6	18.2
50°-60°	603.1	15.9
60°-70°	440.7	11.6
70°-80°	234.5	6.2
80°-90°	54.2	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°	1098.4	28.9
0°-40°	1780.9	46.8
0°-60°	3074.6	80.8
0°-90°	3804.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3804.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1447	1447	1447	1447	1447	
5°	1428	1431	1442	1445	1433	135
15°	1353	1362	1375	1383	1365	381
25°	1225	1240	1261	1265	1246	564
35°	1061	1077	1103	1110	1092	663
45°	867	882	910	911	893	669
55°	657	670	688	678	667	587
65°	437	446	454	445	437	432
75°	217	222	227	218	214	230
85°	41	42	44	44	43	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1446.9	1446.9	1446.9	1446.9	1446.9
2.5°	1435.6	1440.3	1445.1	1447.2	1435.5
5°	1428.1	1430.8	1441.5	1444.8	1432.6
7.5°	1415.7	1419.8	1430.2	1431.7	1420.0
10°	1398.9	1406.1	1413.0	1420.6	1406.2
12.5°	1377.3	1387.1	1398.9	1400.2	1389.4
15°	1353.0	1362.1	1374.9	1383.2	1365.2
17.5°	1325.9	1334.6	1351.2	1352.7	1341.9
20°	1295.6	1306.4	1326.3	1329.8	1310.4
22.5°	1261.2	1275.8	1292.4	1295.7	1281.4
25°	1225.2	1240.3	1260.8	1265.4	1246.3
27.5°	1187.5	1202.0	1225.0	1228.3	1212.2
30°	1147.1	1160.7	1186.0	1191.6	1175.1
32.5°	1106.1	1119.7	1147.7	1152.4	1136.4
35°	1060.6	1077.1	1102.6	1110.3	1092.4
37.5°	1014.1	1030.3	1059.2	1066.1	1046.8
40°	966.0	982.0	1010.5	1016.2	997.7
42.5°	916.9	932.9	963.3	964.2	948.9
45°	866.7	882.1	910.4	911.2	893.2
47.5°	815.7	831.3	856.6	853.7	836.8
50°	764.2	778.9	801.1	795.4	780.2
52.5°	710.8	725.1	746.1	736.7	722.4
55°	657.1	670.4	687.9	677.9	666.8
57.5°	603.0	616.4	629.9	619.8	610.1
60°	548.4	560.2	571.2	561.0	553.6
62.5°	493.0	503.1	512.6	502.8	495.8
65°	436.9	445.8	453.6	444.6	437.2
67.5°	381.1	388.6	395.9	386.5	378.8
70°	325.3	331.8	338.4	328.8	321.7
72.5°	270.3	276.0	281.9	272.6	266.4
75°	216.8	221.8	226.6	218.3	213.5
77.5°	165.7	169.9	173.2	167.9	163.3
80°	118.2	121.4	123.3	121.2	116.8
82.5°	76.0	78.2	79.3	79.1	76.3
85°	41.3	42.1	44.0	44.5	43.0
87.5°	16.0	17.0	17.5	18.8	17.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)