

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: P488807

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-2STD-20-120-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: P488807
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387254)
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-P12125-LD4-2STD-20-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

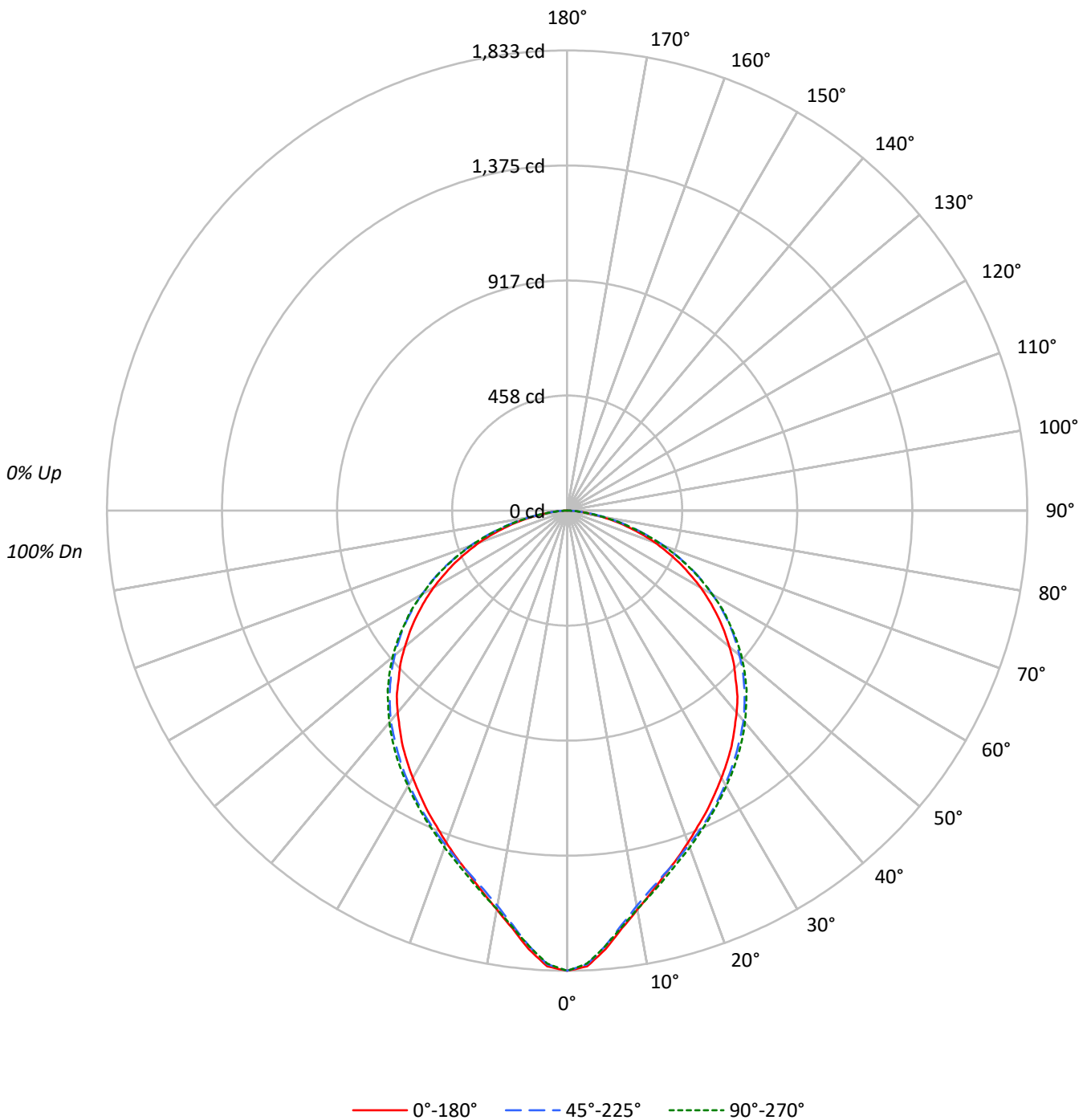
Lumens per Lamp: N/A
Luminaire Lumens: 4257.8 lumens
Efficiency: N/A
Efficacy: 63.9 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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	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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70					70			
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59					59			
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51					51			
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44					44			
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38					38			
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30					30			
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27					27			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4933	4933	4933
5°	4736	4703	4703
10°	4408	4368	4402
15°	4183	4175	4216
20°	4029	4058	4090
25°	3914	3978	4001
30°	3820	3914	3938
35°	3754	3864	3903
40°	3688	3837	3870
45°	3612	3800	3845
50°	3532	3753	3803
55°	3434	3698	3713
60°	3310	3597	3589
65°	3138	3459	3435
70°	2930	3225	3186
75°	2586	2857	2829
80°	2101	2328	2214
85°	1457	1485	1430



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.0	3.8
10°-20°	424.3	10.0
20°-30°	617.0	14.5
30°-40°	734.2	17.2
40°-50°	762.3	17.9
50°-60°	690.6	16.2
60°-70°	521.1	12.2
70°-80°	283.9	6.7
80°-90°	62.4	1.5
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°	1203.2	28.3
0°-40°	1937.4	45.5
0°-60°	3390.3	79.6
0°-90°	4257.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4257.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1833	1833	1833	1833	1833	
5°	1753	1749	1741	1740	1741	163
15°	1501	1498	1499	1509	1513	424
25°	1318	1329	1340	1351	1348	607
35°	1143	1156	1176	1194	1188	714
45°	949	966	998	1010	1010	734
55°	732	749	788	794	792	654
65°	493	507	543	542	540	487
75°	249	259	275	277	272	265
85°	47	48	48	48	46	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1833.1	1833.1	1833.1	1833.1	1833.1
2.5°	1817.0	1815.2	1809.2	1806.9	1806.5
5°	1753.4	1749.2	1741.0	1740.1	1741.0
7.5°	1677.3	1672.7	1664.5	1667.7	1671.8
10°	1613.2	1601.7	1598.5	1603.1	1610.9
12.5°	1555.9	1546.8	1544.0	1555.9	1561.4
15°	1501.4	1497.8	1498.7	1508.8	1513.3
17.5°	1454.3	1452.0	1457.9	1465.7	1468.0
20°	1407.1	1411.7	1417.2	1425.4	1428.1
22.5°	1360.8	1369.5	1378.7	1389.7	1386.0
25°	1318.2	1329.2	1339.8	1350.7	1347.5
27.5°	1272.9	1285.7	1300.4	1312.3	1307.7
30°	1229.3	1245.4	1259.6	1274.2	1267.4
32.5°	1186.3	1201.4	1218.4	1236.2	1228.4
35°	1142.8	1156.5	1176.2	1194.1	1188.1
37.5°	1094.7	1111.6	1134.1	1149.6	1145.6
40°	1049.8	1065.4	1092.4	1102.5	1101.6
42.5°	1004.5	1017.3	1045.7	1057.1	1055.3
45°	949.1	966.0	998.5	1009.5	1010.4
47.5°	900.0	914.2	949.1	957.7	959.6
50°	843.7	861.6	896.4	906.9	908.3
52.5°	788.3	807.5	843.2	850.6	852.0
55°	731.9	749.3	788.3	793.8	791.5
57.5°	672.9	693.9	729.7	732.4	734.7
60°	615.1	633.5	668.3	671.9	666.9
62.5°	552.4	571.2	606.9	607.8	603.7
65°	492.8	507.0	543.2	542.3	539.5
67.5°	430.5	447.9	474.5	475.4	473.2
70°	372.4	384.3	409.9	410.4	404.9
72.5°	309.6	322.5	343.0	340.3	339.0
75°	248.7	258.8	274.8	276.7	272.1
77.5°	192.8	200.2	212.1	210.7	205.6
80°	135.6	141.5	150.2	148.4	142.9
82.5°	86.6	90.2	95.7	93.4	91.1
85°	47.2	47.6	48.1	47.6	46.3
87.5°	17.4	17.9	17.9	17.4	16.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)