



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: P488757

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-1HI-50-120-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.

Report Generated By E9911574 / USPTCWHP6081592



Test Information

Test Method: LM-79-08
Report Number: P488757
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-LD4-1HI-50-120-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: 4171.7 lumens
Efficiency: N/A
Efficacy: 96.6 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

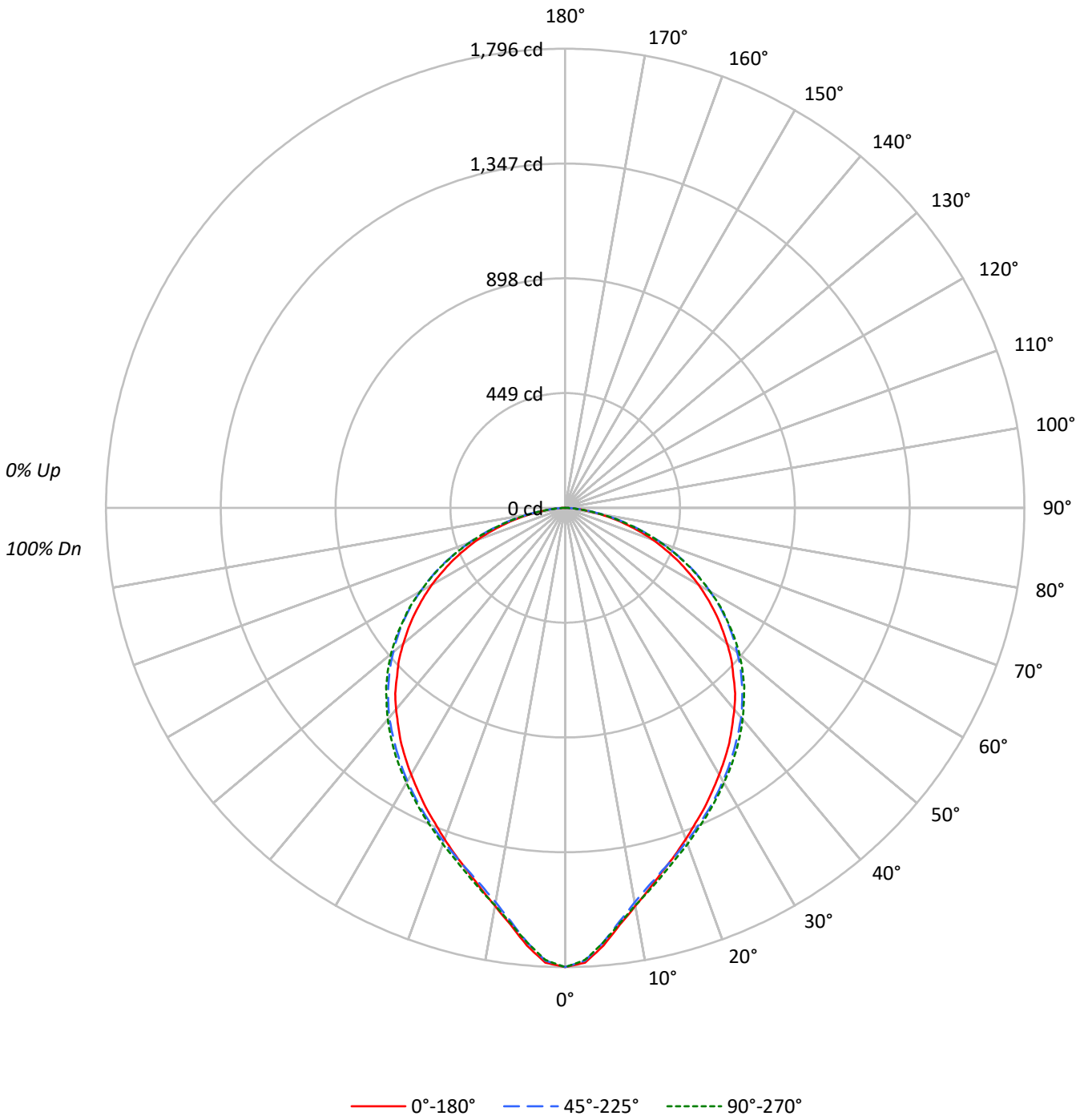
Input Watts (W): 43.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100				
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84	84	84				
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70	70	70				
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59	59	59				
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51	51	51				
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44	44	44				
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38	38	38				
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34	34	34				
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30	30	30				
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27	27	27				
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25	25	25				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4833	4833	4833
5°	4640	4608	4608
10°	4319	4280	4313
15°	4098	4091	4131
20°	3948	3976	4007
25°	3835	3898	3920
30°	3743	3835	3859
35°	3678	3786	3824
40°	3613	3760	3791
45°	3539	3723	3768
50°	3460	3677	3725
55°	3364	3623	3638
60°	3244	3524	3517
65°	3075	3389	3366
70°	2870	3160	3121
75°	2534	2800	2772
80°	2058	2281	2170
85°	1426	1454	1399



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.7	3.8
10°-20°	415.7	10.0
20°-30°	604.5	14.5
30°-40°	719.3	17.2
40°-50°	746.9	17.9
50°-60°	676.7	16.2
60°-70°	510.6	12.2
70°-80°	278.2	6.7
80°-90°	61.1	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°	1178.9	28.3
0°-40°	1898.2	45.5
0°-60°	3321.8	79.6
0°-90°	4171.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4171.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1796	1796	1796	1796	1796	
5°	1718	1714	1706	1705	1706	159
15°	1471	1468	1468	1478	1483	415
25°	1292	1302	1313	1323	1320	595
35°	1120	1133	1152	1170	1164	700
45°	930	946	978	989	990	719
55°	717	734	772	778	776	640
65°	483	497	532	531	529	477
75°	244	254	269	271	267	260
85°	46	47	47	47	45	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1796.0	1796.0	1796.0	1796.0	1796.0
2.5°	1780.3	1778.5	1772.6	1770.4	1769.9
5°	1717.9	1713.9	1705.8	1704.9	1705.8
7.5°	1643.4	1638.9	1630.8	1634.0	1638.0
10°	1580.6	1569.4	1566.2	1570.7	1578.3
12.5°	1524.5	1515.5	1512.8	1524.5	1529.9
15°	1471.0	1467.5	1468.4	1478.3	1482.7
17.5°	1424.9	1422.6	1428.4	1436.1	1438.3
20°	1378.6	1383.1	1388.5	1396.6	1399.3
22.5°	1333.3	1341.8	1350.8	1361.6	1358.0
25°	1291.6	1302.3	1312.7	1323.4	1320.3
27.5°	1247.1	1259.7	1274.1	1285.7	1281.2
30°	1204.5	1220.2	1234.1	1248.5	1241.8
32.5°	1162.3	1177.1	1193.7	1211.2	1203.6
35°	1119.7	1133.1	1152.4	1170.0	1164.1
37.5°	1072.6	1089.2	1111.1	1126.4	1122.4
40°	1028.6	1043.8	1070.3	1080.2	1079.3
42.5°	984.1	996.7	1024.5	1035.8	1034.0
45°	929.9	946.5	978.3	989.1	990.0
47.5°	881.8	895.8	929.9	938.4	940.2
50°	826.6	844.1	878.3	888.6	889.9
52.5°	772.3	791.2	826.2	833.4	834.7
55°	717.1	734.2	772.3	777.7	775.5
57.5°	659.3	679.9	714.9	717.6	719.8
60°	602.7	620.6	654.7	658.3	653.4
62.5°	541.2	559.6	594.6	595.5	591.5
65°	482.9	496.8	532.2	531.3	528.6
67.5°	421.8	438.9	464.9	465.8	463.6
70°	364.8	376.5	401.6	402.1	396.7
72.5°	303.4	315.9	336.1	333.4	332.1
75°	243.7	253.6	269.3	271.1	266.6
77.5°	188.9	196.1	207.8	206.4	201.5
80°	132.8	138.7	147.2	145.4	140.0
82.5°	84.8	88.4	93.8	91.6	89.3
85°	46.2	46.7	47.1	46.7	45.3
87.5°	17.1	17.5	17.5	17.1	15.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)