

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: P488472

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-1LO-27-120-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: P488472
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-12-2-INS-P12125-LD4-1LO-27-120-EDD-90
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

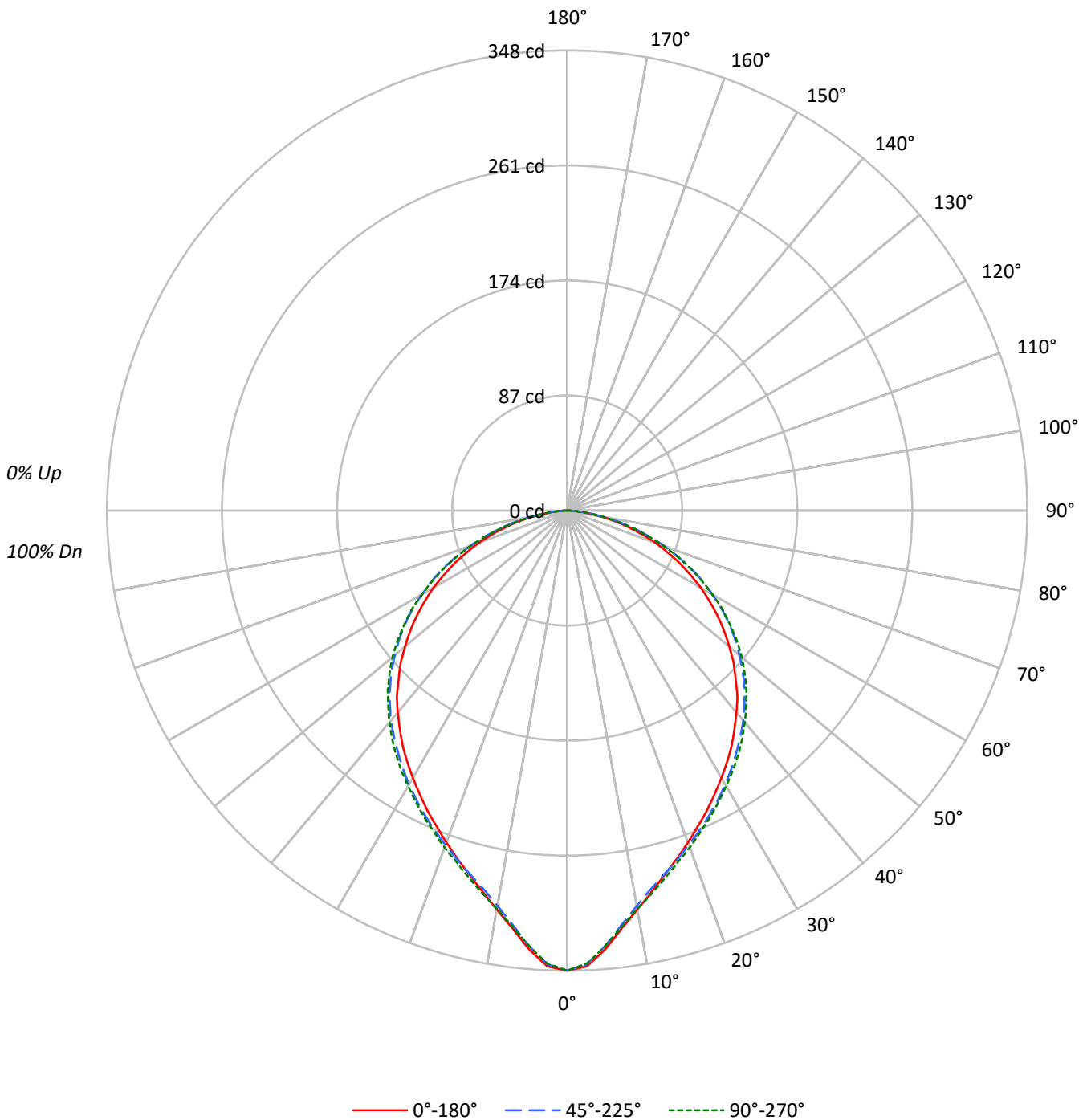
Lumens per Lamp: N/A
Luminaire Lumens: 808.1 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1872	1872	1872
5°	1798	1785	1785
10°	1673	1658	1671
15°	1588	1585	1600
20°	1530	1541	1553
25°	1486	1510	1519
30°	1450	1486	1495
35°	1425	1466	1482
40°	1400	1456	1469
45°	1371	1442	1460
50°	1340	1424	1443
55°	1303	1404	1409
60°	1256	1365	1363
65°	1191	1313	1304
70°	1113	1224	1209
75°	981	1085	1073
80°	797	883	840
85°	556	562	543



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.7	3.8
10°-20°	80.5	10.0
20°-30°	117.1	14.5
30°-40°	139.3	17.2
40°-50°	144.7	17.9
50°-60°	131.1	16.2
60°-70°	98.9	12.2
70°-80°	53.9	6.7
80°-90°	11.8	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°	228.4	28.3
0°-40°	367.7	45.5
0°-60°	643.4	79.6
0°-90°	808.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	808.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	348	348	348	348	348	
5°	333	332	330	330	330	31
15°	285	284	284	286	287	80
25°	250	252	254	256	256	115
35°	217	220	223	227	226	136
45°	180	183	190	192	192	139
55°	139	142	150	151	150	124
65°	94	96	103	103	102	92
75°	47	49	52	52	52	50
85°	9	9	9	9	9	11
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	347.9	347.9	347.9	347.9	347.9
2.5°	344.9	344.5	343.4	342.9	342.9
5°	332.8	332.0	330.4	330.3	330.4
7.5°	318.3	317.5	315.9	316.5	317.3
10°	306.2	304.0	303.4	304.3	305.7
12.5°	295.3	293.6	293.0	295.3	296.4
15°	285.0	284.3	284.4	286.4	287.2
17.5°	276.0	275.6	276.7	278.2	278.6
20°	267.1	267.9	269.0	270.5	271.1
22.5°	258.3	259.9	261.7	263.7	263.1
25°	250.2	252.3	254.3	256.4	255.8
27.5°	241.6	244.0	246.8	249.1	248.2
30°	233.3	236.4	239.1	241.8	240.5
32.5°	225.2	228.0	231.2	234.6	233.2
35°	216.9	219.5	223.2	226.6	225.5
37.5°	207.8	211.0	215.2	218.2	217.4
40°	199.2	202.2	207.3	209.2	209.1
42.5°	190.6	193.1	198.5	200.6	200.3
45°	180.1	183.3	189.5	191.6	191.8
47.5°	170.8	173.5	180.1	181.8	182.1
50°	160.1	163.5	170.1	172.1	172.4
52.5°	149.6	153.3	160.0	161.4	161.7
55°	138.9	142.2	149.6	150.7	150.2
57.5°	127.7	131.7	138.5	139.0	139.4
60°	116.7	120.2	126.8	127.5	126.6
62.5°	104.8	108.4	115.2	115.4	114.6
65°	93.5	96.2	103.1	102.9	102.4
67.5°	81.7	85.0	90.1	90.2	89.8
70°	70.7	72.9	77.8	77.9	76.8
72.5°	58.8	61.2	65.1	64.6	64.3
75°	47.2	49.1	52.2	52.5	51.6
77.5°	36.6	38.0	40.3	40.0	39.0
80°	25.7	26.9	28.5	28.2	27.1
82.5°	16.4	17.1	18.2	17.7	17.3
85°	9.0	9.0	9.1	9.0	8.8
87.5°	3.3	3.4	3.4	3.3	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)