

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: P489234

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-1LO-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: P489234
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-24-2-INS-P12125-LD4-1LO-40-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

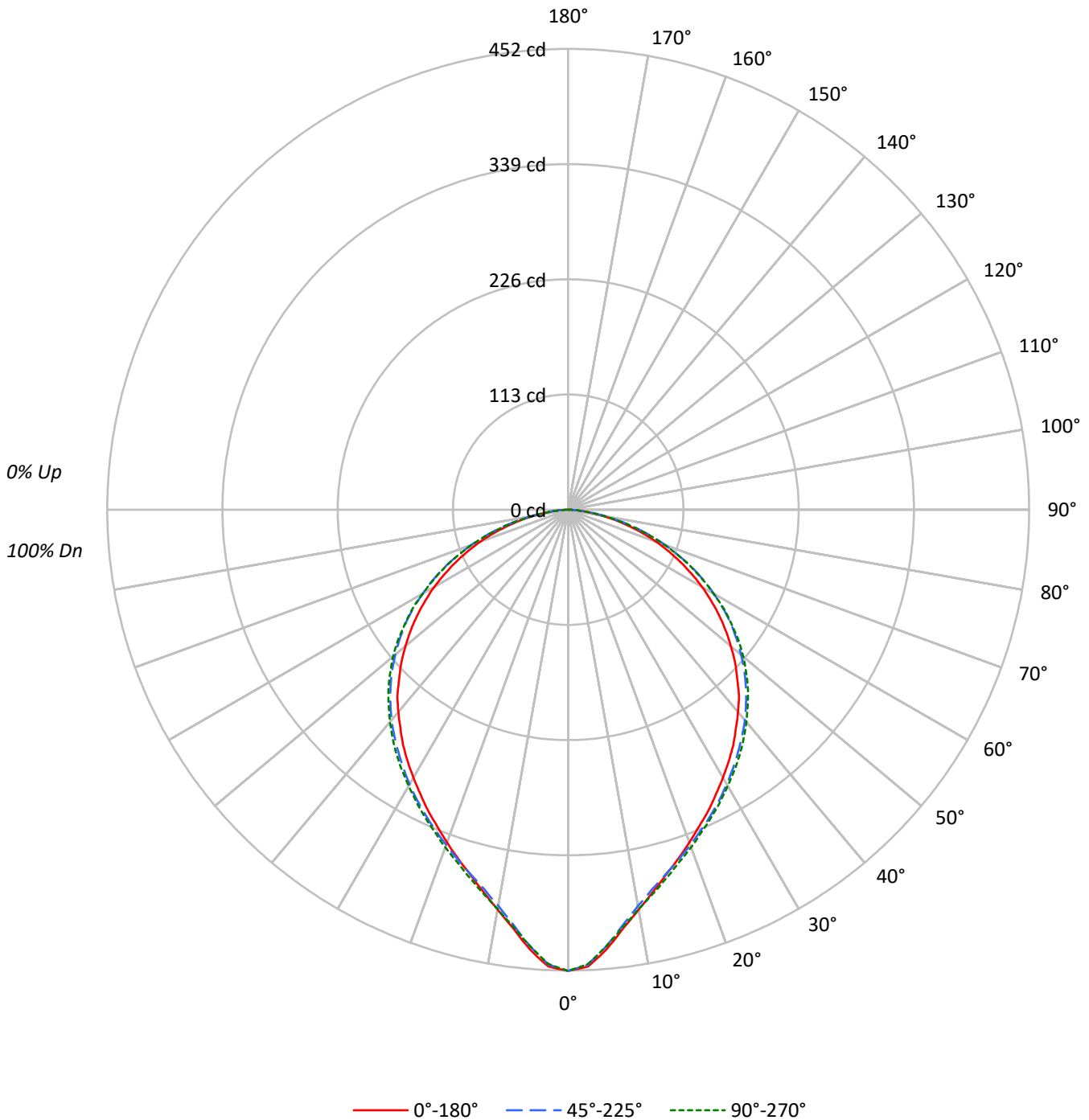
Lumens per Lamp: N/A
Luminaire Lumens: 1050.9 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P489234

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-1LO-40-120-EDD-90

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°	1217	1217	1217
5°	1169	1161	1161
10°	1088	1078	1086
15°	1032	1031	1041
20°	995	1002	1009
25°	966	982	988
30°	943	966	972
35°	927	954	964
40°	910	947	955
45°	891	938	949
50°	872	926	939
55°	848	913	917
60°	817	887	886
65°	774	854	848
70°	723	796	786
75°	638	705	699
80°	519	575	547
85°	358	367	352



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.0	3.8
10°-20°	104.7	10.0
20°-30°	152.3	14.5
30°-40°	181.2	17.2
40°-50°	188.2	17.9
50°-60°	170.5	16.2
60°-70°	128.6	12.2
70°-80°	70.1	6.7
80°-90°	15.4	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°	297.0	28.3
0°-40°	478.2	45.5
0°-60°	836.8	79.6
0°-90°	1050.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1050.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	452	452	452	452	452	
5°	433	432	430	430	430	40
15°	371	370	370	372	374	105
25°	325	328	331	333	333	150
35°	282	286	290	295	293	176
45°	234	238	246	249	249	181
55°	181	185	195	196	195	161
65°	122	125	134	134	133	120
75°	61	64	68	68	67	65
85°	12	12	12	12	11	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	452.4	452.4	452.4	452.4	452.4
2.5°	448.5	448.0	446.5	446.0	445.9
5°	432.8	431.7	429.7	429.5	429.7
7.5°	414.0	412.9	410.8	411.6	412.6
10°	398.2	395.3	394.5	395.7	397.6
12.5°	384.0	381.8	381.1	384.0	385.4
15°	370.6	369.7	369.9	372.4	373.5
17.5°	358.9	358.4	359.8	361.8	362.3
20°	347.3	348.4	349.8	351.8	352.5
22.5°	335.9	338.0	340.3	343.0	342.1
25°	325.4	328.1	330.7	333.4	332.6
27.5°	314.2	317.3	321.0	323.9	322.8
30°	303.4	307.4	310.9	314.5	312.8
32.5°	292.8	296.5	300.7	305.1	303.2
35°	282.1	285.5	290.3	294.7	293.3
37.5°	270.2	274.4	279.9	283.8	282.7
40°	259.1	263.0	269.6	272.1	271.9
42.5°	247.9	251.1	258.1	260.9	260.5
45°	234.2	238.4	246.4	249.2	249.4
47.5°	222.1	225.7	234.2	236.4	236.8
50°	208.2	212.7	221.2	223.8	224.2
52.5°	194.6	199.3	208.1	209.9	210.3
55°	180.7	184.9	194.6	195.9	195.4
57.5°	166.1	171.3	180.1	180.8	181.3
60°	151.8	156.3	164.9	165.8	164.6
62.5°	136.3	141.0	149.8	150.0	149.0
65°	121.6	125.1	134.1	133.9	133.2
67.5°	106.3	110.6	117.1	117.3	116.8
70°	91.9	94.8	101.2	101.3	99.9
72.5°	76.4	79.6	84.7	84.0	83.7
75°	61.4	63.9	67.8	68.3	67.2
77.5°	47.6	49.4	52.3	52.0	50.8
80°	33.5	34.9	37.1	36.6	35.3
82.5°	21.4	22.3	23.6	23.1	22.5
85°	11.6	11.8	11.9	11.8	11.4
87.5°	4.3	4.4	4.4	4.3	4.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)