

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: P489233

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-1LO-35-120-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: P489233
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-35-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

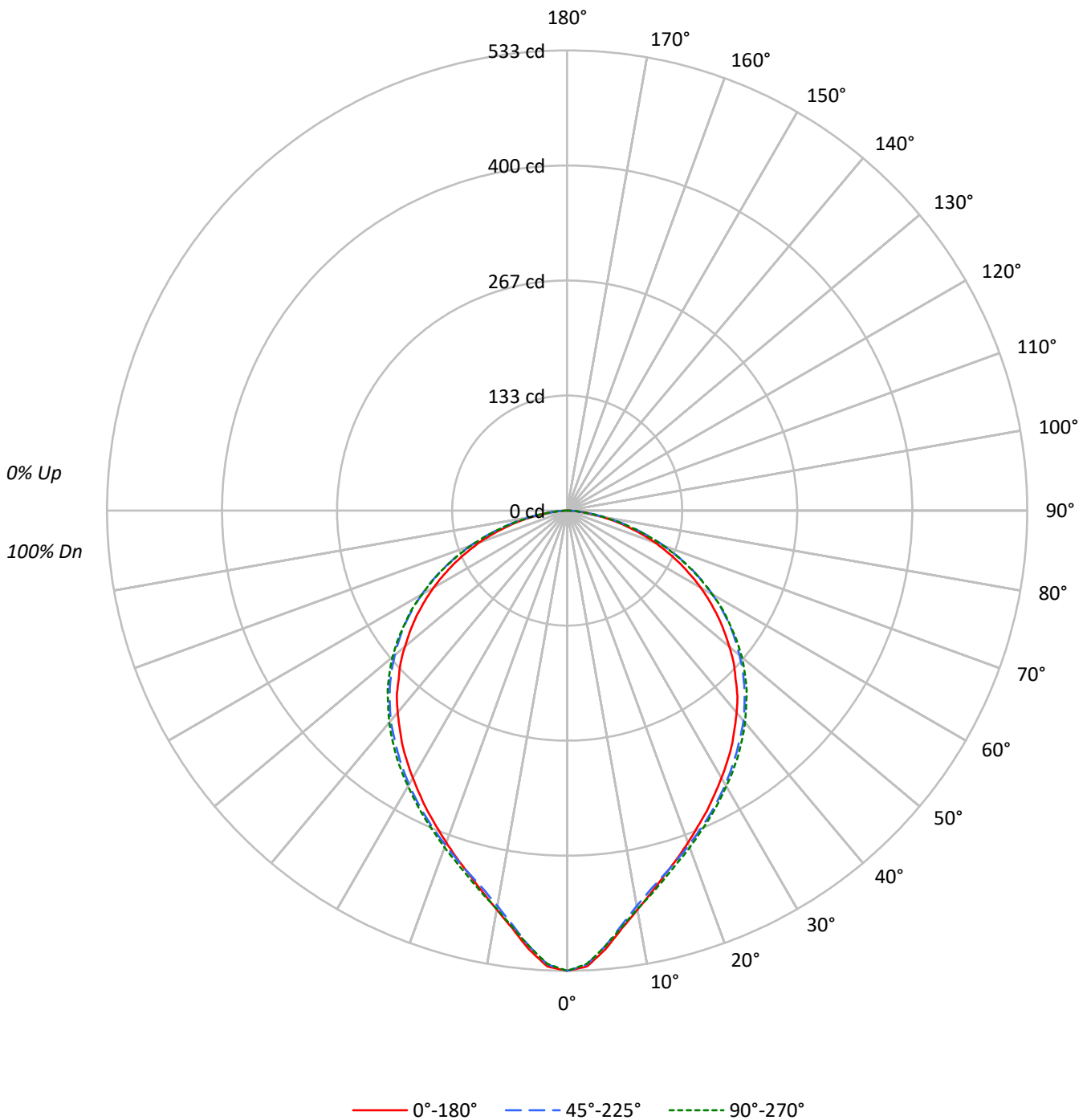
Lumens per Lamp: N/A
Luminaire Lumens: 1238.3 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

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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°	1435	1435	1435
5°	1377	1368	1368
10°	1282	1270	1280
15°	1217	1214	1226
20°	1172	1180	1189
25°	1138	1157	1164
30°	1111	1138	1145
35°	1092	1124	1135
40°	1072	1116	1126
45°	1050	1105	1118
50°	1027	1091	1106
55°	999	1075	1080
60°	963	1046	1044
65°	912	1006	999
70°	852	938	927
75°	752	831	822
80°	611	677	645
85°	423	432	417



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.1	3.8
10°-20°	123.4	10.0
20°-30°	179.4	14.5
30°-40°	213.5	17.2
40°-50°	221.7	17.9
50°-60°	200.9	16.2
60°-70°	151.6	12.2
70°-80°	82.6	6.7
80°-90°	18.1	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°	349.9	28.3
0°-40°	563.4	45.5
0°-60°	986.0	79.6
0°-90°	1238.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1238.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	533	533	533	533	533	
5°	510	509	506	506	506	47
15°	437	436	436	439	440	123
25°	383	387	390	393	392	177
35°	332	336	342	347	346	208
45°	276	281	290	294	294	213
55°	213	218	229	231	230	190
65°	143	148	158	158	157	142
75°	72	75	80	80	79	77
85°	14	14	14	14	14	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	533.1	533.1	533.1	533.1	533.1
2.5°	528.4	527.9	526.2	525.5	525.4
5°	509.9	508.7	506.3	506.1	506.3
7.5°	487.8	486.5	484.1	485.0	486.2
10°	469.2	465.8	464.9	466.2	468.5
12.5°	452.5	449.8	449.0	452.5	454.1
15°	436.7	435.6	435.9	438.8	440.1
17.5°	422.9	422.3	424.0	426.3	426.9
20°	409.2	410.6	412.2	414.6	415.3
22.5°	395.8	398.3	401.0	404.2	403.1
25°	383.4	386.6	389.6	392.8	391.9
27.5°	370.2	373.9	378.2	381.6	380.3
30°	357.5	362.2	366.3	370.6	368.6
32.5°	345.0	349.4	354.3	359.5	357.3
35°	332.4	336.4	342.1	347.3	345.6
37.5°	318.4	323.3	329.8	334.4	333.2
40°	305.3	309.8	317.7	320.6	320.4
42.5°	292.1	295.9	304.1	307.4	306.9
45°	276.0	280.9	290.4	293.6	293.9
47.5°	261.8	265.9	276.0	278.5	279.1
50°	245.4	250.6	260.7	263.8	264.2
52.5°	229.2	234.8	245.2	247.4	247.8
55°	212.9	217.9	229.2	230.9	230.2
57.5°	195.7	201.8	212.2	213.0	213.7
60°	178.9	184.2	194.4	195.4	194.0
62.5°	160.7	166.1	176.5	176.8	175.6
65°	143.3	147.5	158.0	157.7	156.9
67.5°	125.2	130.3	138.0	138.3	137.6
70°	108.3	111.8	119.2	119.4	117.8
72.5°	90.1	93.8	99.8	99.0	98.6
75°	72.3	75.3	79.9	80.5	79.1
77.5°	56.1	58.2	61.7	61.3	59.8
80°	39.4	41.2	43.7	43.2	41.6
82.5°	25.2	26.2	27.8	27.2	26.5
85°	13.7	13.8	14.0	13.8	13.5
87.5°	5.1	5.2	5.2	5.1	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)