

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: P489226

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-1LO-20-120-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: P489226
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-20-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

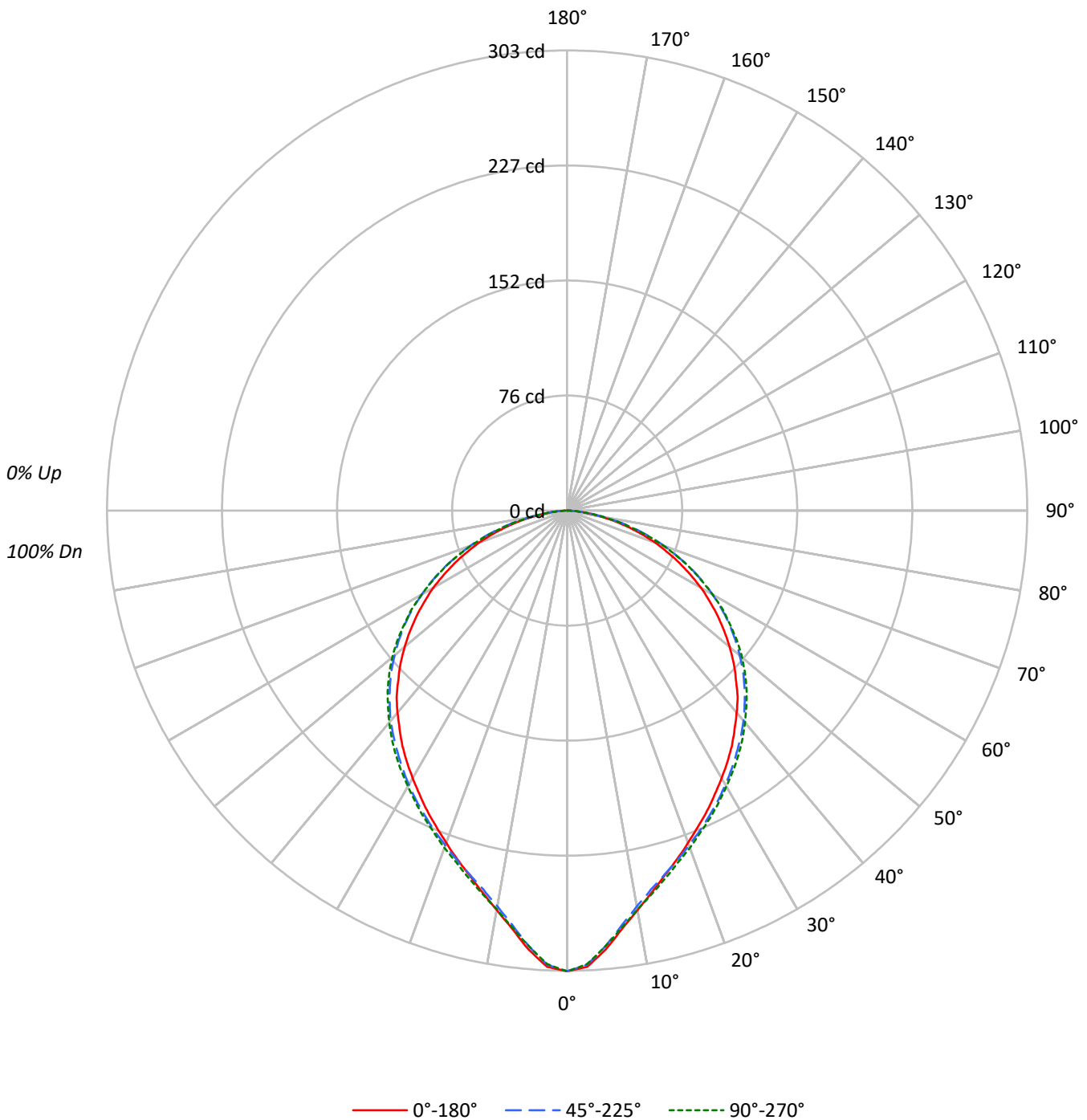
Lumens per Lamp: N/A
Luminaire Lumens: 704.6 lumens
Efficiency: N/A
Efficacy: 60.2 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	816	816	816
5°	784	778	778
10°	730	723	728
15°	692	691	698
20°	667	672	677
25°	648	658	662
30°	632	648	652
35°	621	639	646
40°	610	635	640
45°	598	629	636
50°	584	621	629
55°	568	612	615
60°	548	595	594
65°	520	572	569
70°	485	533	527
75°	428	473	468
80°	347	386	366
85°	241	247	238



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.8	3.8
10°-20°	70.2	10.0
20°-30°	102.1	14.5
30°-40°	121.5	17.2
40°-50°	126.1	17.9
50°-60°	114.3	16.2
60°-70°	86.2	12.2
70°-80°	47.0	6.7
80°-90°	10.3	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°	199.1	28.3
0°-40°	320.6	45.5
0°-60°	561.0	79.6
0°-90°	704.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	704.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	303	303	303	303	303	
5°	290	290	288	288	288	27
15°	248	248	248	250	250	70
25°	218	220	222	224	223	101
35°	189	191	195	198	197	118
45°	157	160	165	167	167	121
55°	121	124	130	131	131	108
65°	82	84	90	90	89	81
75°	41	43	46	46	45	44
85°	8	8	8	8	8	10
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	303.3	303.3	303.3	303.3	303.3
2.5°	300.7	300.4	299.4	299.0	298.9
5°	290.2	289.5	288.1	288.0	288.1
7.5°	277.6	276.8	275.4	276.0	276.7
10°	267.0	265.1	264.5	265.3	266.6
12.5°	257.5	256.0	255.5	257.5	258.4
15°	248.5	247.9	248.0	249.7	250.4
17.5°	240.7	240.3	241.3	242.6	242.9
20°	232.8	233.6	234.5	235.9	236.3
22.5°	225.2	226.6	228.2	230.0	229.4
25°	218.1	220.0	221.7	223.5	223.0
27.5°	210.6	212.8	215.2	217.2	216.4
30°	203.4	206.1	208.4	210.9	209.7
32.5°	196.3	198.8	201.6	204.6	203.3
35°	189.1	191.4	194.6	197.6	196.6
37.5°	181.2	184.0	187.7	190.2	189.6
40°	173.7	176.3	180.8	182.4	182.3
42.5°	166.2	168.3	173.0	174.9	174.6
45°	157.1	159.9	165.2	167.1	167.2
47.5°	148.9	151.3	157.1	158.5	158.8
50°	139.6	142.6	148.3	150.1	150.3
52.5°	130.4	133.6	139.5	140.8	141.0
55°	121.1	124.0	130.4	131.4	131.0
57.5°	111.3	114.8	120.7	121.2	121.6
60°	101.8	104.8	110.6	111.2	110.4
62.5°	91.4	94.5	100.4	100.6	99.9
65°	81.6	83.9	89.9	89.7	89.3
67.5°	71.2	74.1	78.5	78.7	78.3
70°	61.6	63.6	67.8	67.9	67.0
72.5°	51.2	53.4	56.8	56.3	56.1
75°	41.2	42.8	45.5	45.8	45.0
77.5°	31.9	33.1	35.1	34.9	34.0
80°	22.4	23.4	24.9	24.6	23.6
82.5°	14.3	14.9	15.8	15.5	15.1
85°	7.8	7.9	8.0	7.9	7.7
87.5°	2.9	3.0	3.0	2.9	2.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)