

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: P489227

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-1LO-20-120-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: P489227
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
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

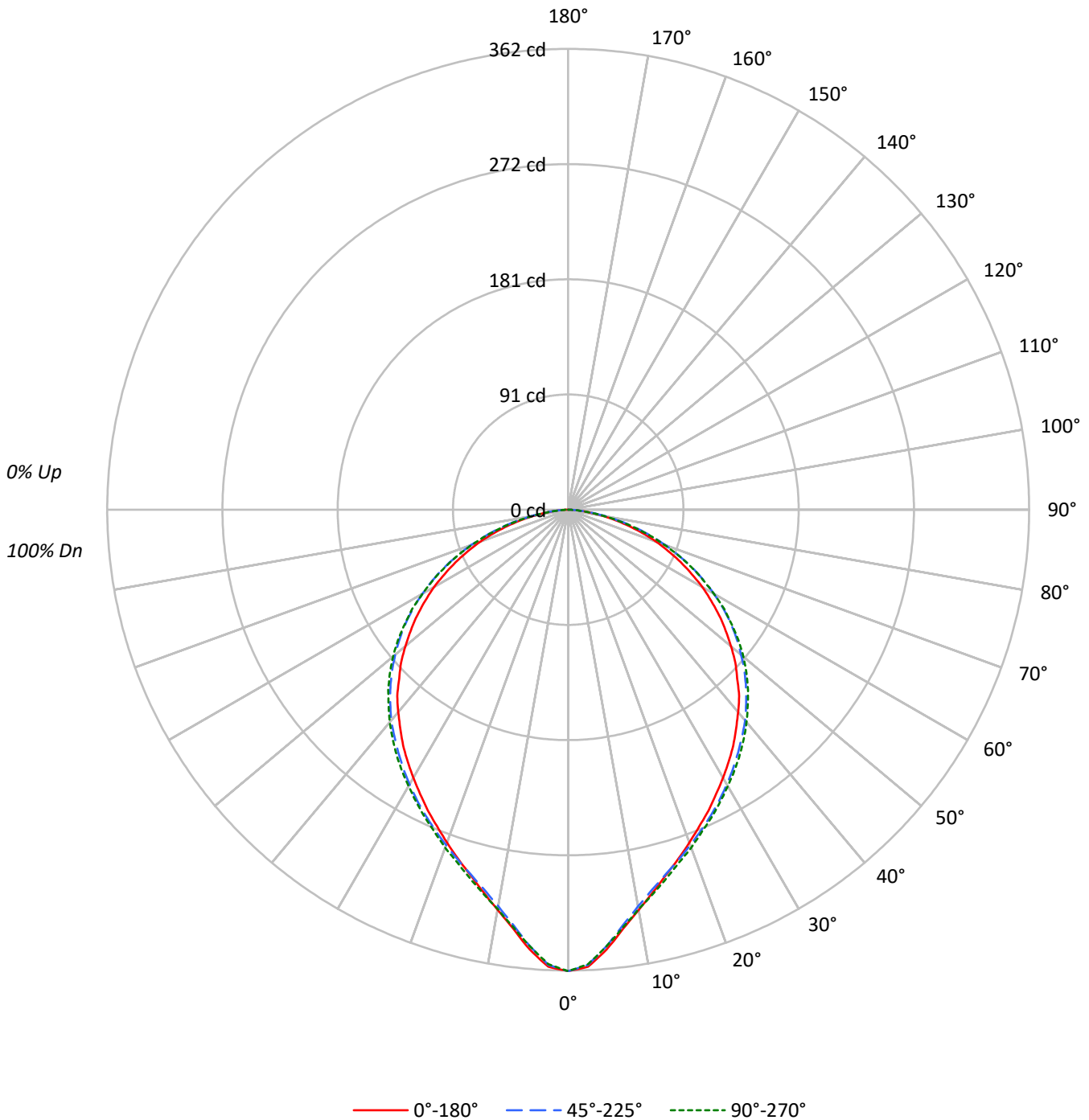
Lumens per Lamp: N/A
Luminaire Lumens: 842.1 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	975	975	975
5°	937	930	930
10°	872	864	871
15°	827	826	834
20°	797	803	809
25°	774	787	791
30°	755	774	779
35°	742	764	772
40°	729	759	765
45°	714	752	760
50°	699	742	752
55°	679	731	734
60°	655	711	710
65°	621	684	679
70°	579	638	630
75°	512	566	559
80°	415	460	439
85°	287	293	281



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.0	3.8
10°-20°	83.9	10.0
20°-30°	122.0	14.5
30°-40°	145.2	17.2
40°-50°	150.8	17.9
50°-60°	136.6	16.2
60°-70°	103.1	12.2
70°-80°	56.2	6.7
80°-90°	12.3	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°	238.0	28.3
0°-40°	383.2	45.5
0°-60°	670.5	79.6
0°-90°	842.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	842.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	362	362	362	362	362	
5°	347	346	344	344	344	32
15°	297	296	296	298	299	84
25°	261	263	265	267	266	120
35°	226	229	233	236	235	141
45°	188	191	198	200	200	145
55°	145	148	156	157	156	129
65°	98	100	107	107	107	96
75°	49	51	54	55	54	52
85°	9	9	10	9	9	12
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	362.5	362.5	362.5	362.5	362.5
2.5°	359.4	359.0	357.8	357.4	357.3
5°	346.8	346.0	344.3	344.1	344.3
7.5°	331.7	330.8	329.2	329.8	330.7
10°	319.1	316.8	316.2	317.1	318.6
12.5°	307.7	305.9	305.4	307.7	308.8
15°	296.9	296.2	296.4	298.4	299.3
17.5°	287.6	287.2	288.3	289.9	290.3
20°	278.3	279.2	280.3	281.9	282.5
22.5°	269.1	270.9	272.7	274.8	274.1
25°	260.7	262.9	265.0	267.1	266.5
27.5°	251.7	254.3	257.2	259.5	258.6
30°	243.1	246.3	249.1	252.0	250.7
32.5°	234.6	237.6	241.0	244.5	243.0
35°	226.0	228.7	232.6	236.2	235.0
37.5°	216.5	219.9	224.3	227.4	226.6
40°	207.6	210.7	216.1	218.0	217.9
42.5°	198.7	201.2	206.8	209.1	208.7
45°	187.7	191.1	197.5	199.7	199.8
47.5°	178.0	180.8	187.7	189.4	189.8
50°	166.9	170.4	177.3	179.4	179.6
52.5°	155.9	159.7	166.8	168.2	168.5
55°	144.8	148.2	155.9	157.0	156.5
57.5°	133.1	137.2	144.3	144.9	145.3
60°	121.7	125.3	132.2	132.9	131.9
62.5°	109.3	113.0	120.0	120.2	119.4
65°	97.5	100.3	107.4	107.3	106.7
67.5°	85.1	88.6	93.9	94.0	93.6
70°	73.6	76.0	81.1	81.2	80.1
72.5°	61.2	63.8	67.8	67.3	67.0
75°	49.2	51.2	54.4	54.7	53.8
77.5°	38.1	39.6	41.9	41.7	40.7
80°	26.8	28.0	29.7	29.4	28.3
82.5°	17.1	17.8	18.9	18.5	18.0
85°	9.3	9.4	9.5	9.4	9.1
87.5°	3.4	3.5	3.5	3.4	3.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)