

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: P488459

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-1HI-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: P488459
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-LD4-1HI-20-120-EDD
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

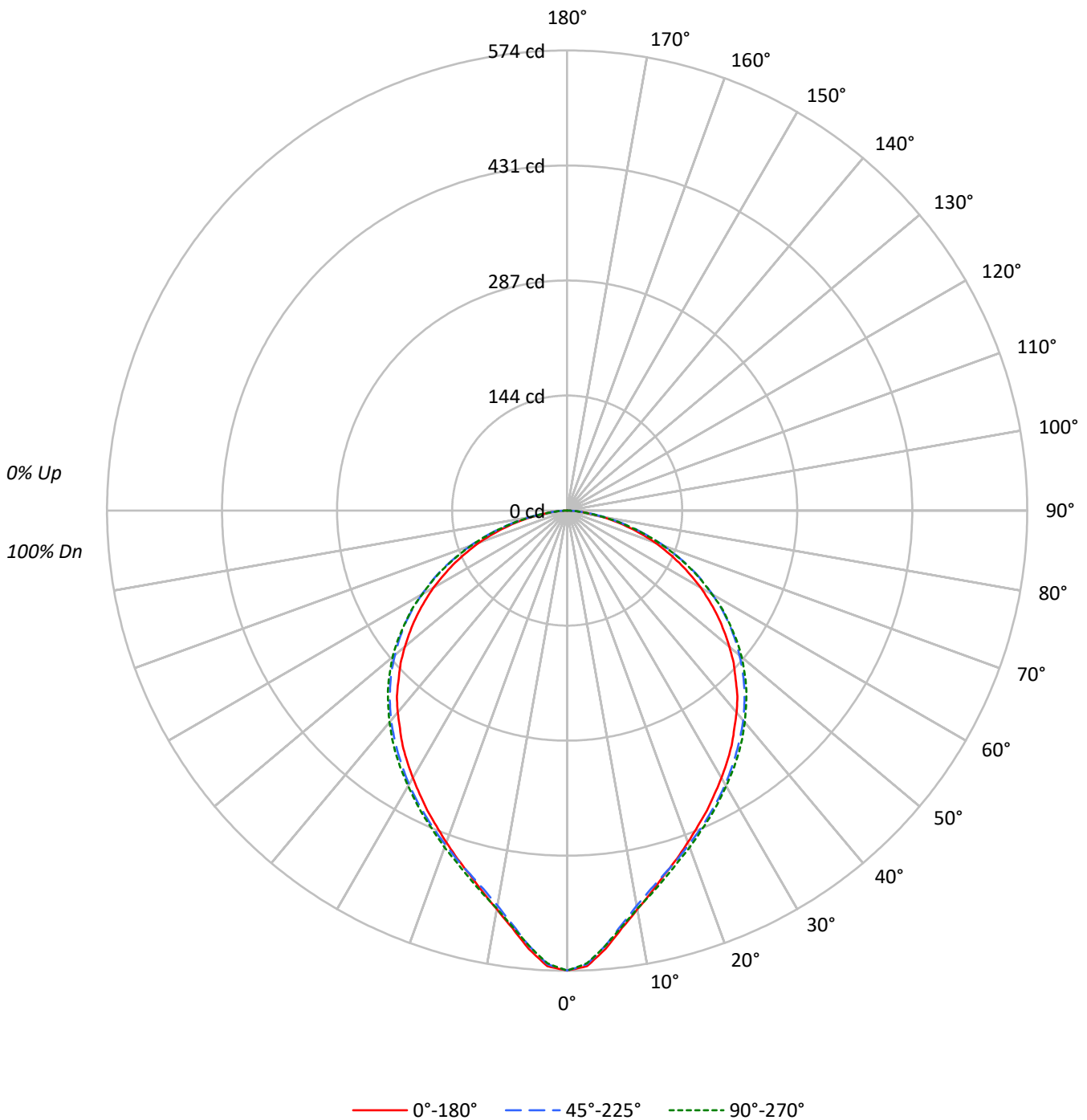
Lumens per Lamp: N/A
Luminaire Lumens: 1332.7 lumens
Efficiency: N/A
Efficacy: 61.7 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
Input Voltage (V): NR
Input Current (A_{in}): 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°	3088	3088	3088
5°	2965	2944	2944
10°	2759	2734	2755
15°	2618	2614	2639
20°	2522	2541	2560
25°	2450	2490	2505
30°	2391	2450	2465
35°	2350	2419	2443
40°	2309	2402	2422
45°	2261	2379	2407
50°	2211	2349	2380
55°	2150	2315	2324
60°	2072	2252	2246
65°	1965	2165	2151
70°	1835	2019	1994
75°	1618	1788	1772
80°	1314	1457	1385
85°	914	932	895



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.7	3.8
10°-20°	132.8	10.0
20°-30°	193.1	14.5
30°-40°	229.8	17.2
40°-50°	238.6	17.9
50°-60°	216.2	16.2
60°-70°	163.1	12.2
70°-80°	88.9	6.7
80°-90°	19.5	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°	376.6	28.3
0°-40°	606.4	45.5
0°-60°	1061.2	79.6
0°-90°	1332.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1332.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	574	574	574	574	574	
5°	549	548	545	545	545	51
15°	470	469	469	472	474	133
25°	413	416	419	423	422	190
35°	358	362	368	374	372	224
45°	297	302	312	316	316	230
55°	229	234	247	248	248	205
65°	154	159	170	170	169	153
75°	78	81	86	87	85	83
85°	15	15	15	15	14	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	573.7	573.7	573.7	573.7	573.7
2.5°	568.7	568.2	566.3	565.6	565.4
5°	548.8	547.5	544.9	544.6	544.9
7.5°	525.0	523.6	521.0	522.0	523.3
10°	504.9	501.3	500.3	501.8	504.2
12.5°	487.0	484.1	483.3	487.0	488.7
15°	469.9	468.8	469.1	472.2	473.7
17.5°	455.2	454.5	456.3	458.8	459.5
20°	440.4	441.9	443.6	446.2	447.0
22.5°	425.9	428.7	431.5	435.0	433.8
25°	412.6	416.0	419.3	422.8	421.8
27.5°	398.4	402.4	407.0	410.7	409.3
30°	384.8	389.8	394.3	398.8	396.7
32.5°	371.3	376.0	381.3	386.9	384.5
35°	357.7	362.0	368.2	373.8	371.9
37.5°	342.6	347.9	355.0	359.8	358.6
40°	328.6	333.5	341.9	345.1	344.8
42.5°	314.4	318.4	327.3	330.9	330.3
45°	297.1	302.4	312.5	316.0	316.3
47.5°	281.7	286.2	297.1	299.8	300.3
50°	264.1	269.7	280.6	283.9	284.3
52.5°	246.7	252.7	263.9	266.2	266.7
55°	229.1	234.5	246.7	248.5	247.7
57.5°	210.6	217.2	228.4	229.2	230.0
60°	192.5	198.3	209.2	210.3	208.7
62.5°	172.9	178.8	190.0	190.2	189.0
65°	154.3	158.7	170.0	169.7	168.9
67.5°	134.8	140.2	148.5	148.8	148.1
70°	116.6	120.3	128.3	128.5	126.7
72.5°	96.9	100.9	107.4	106.5	106.1
75°	77.8	81.0	86.0	86.6	85.2
77.5°	60.4	62.7	66.4	66.0	64.4
80°	42.4	44.3	47.0	46.5	44.7
82.5°	27.1	28.2	30.0	29.2	28.5
85°	14.8	14.9	15.1	14.9	14.5
87.5°	5.4	5.6	5.6	5.4	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)