

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: P488346

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-1STD-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: P488346
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-115-8)
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-A12125-LD4-1STD-40-120-EDD-90
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

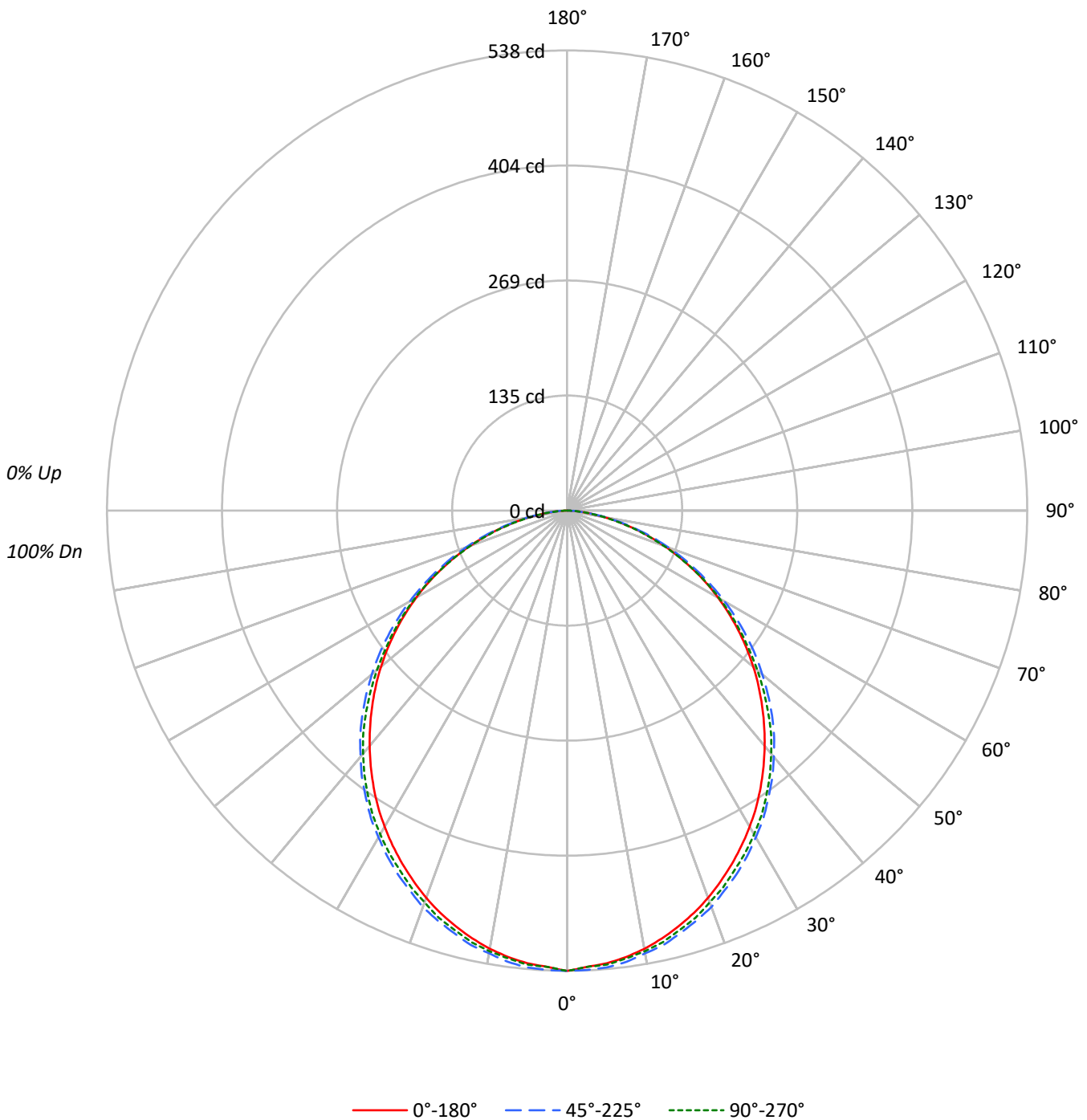
Lumens per Lamp: N/A
Luminaire Lumens: 1414.9 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
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	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2897	2897	2897
5°	2870	2897	2879
10°	2843	2872	2858
15°	2804	2849	2829
20°	2760	2825	2792
25°	2706	2784	2752
30°	2652	2741	2716
35°	2592	2694	2669
40°	2524	2640	2607
45°	2454	2577	2528
50°	2380	2495	2430
55°	2293	2401	2327
60°	2196	2287	2216
65°	2069	2148	2071
70°	1904	1981	1884
75°	1676	1753	1651
80°	1364	1423	1348
85°	951	1013	988



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.7	3.6
10°-20°	143.6	10.2
20°-30°	214.2	15.1
30°-40°	253.9	17.9
40°-50°	256.9	18.2
50°-60°	224.3	15.9
60°-70°	163.9	11.6
70°-80°	87.2	6.2
80°-90°	20.2	1.4
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°	408.5	28.9
0°-40°	662.4	46.8
0°-60°	1143.6	80.8
0°-90°	1414.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1414.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	538	538	538	538	538	
5°	531	532	536	537	533	50
15°	503	507	511	514	508	142
25°	456	461	469	471	464	210
35°	394	401	410	413	406	247
45°	322	328	339	339	332	249
55°	244	249	256	252	248	218
65°	162	166	169	165	163	161
75°	81	82	84	81	79	86
85°	15	16	16	16	16	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	538.2	538.2	538.2	538.2	538.2
2.5°	534.0	535.7	537.5	538.3	533.9
5°	531.2	532.2	536.2	537.4	532.9
7.5°	526.6	528.1	532.0	532.5	528.1
10°	520.3	523.0	525.6	528.4	523.0
12.5°	512.3	515.9	520.3	520.8	516.8
15°	503.2	506.6	511.4	514.5	507.8
17.5°	493.2	496.4	502.6	503.1	499.1
20°	481.9	485.9	493.3	494.6	487.4
22.5°	469.1	474.5	480.7	481.9	476.6
25°	455.7	461.3	468.9	470.7	463.5
27.5°	441.7	447.1	455.6	456.9	450.9
30°	426.7	431.7	441.1	443.2	437.1
32.5°	411.4	416.4	426.9	428.6	422.7
35°	394.5	400.6	410.1	413.0	406.3
37.5°	377.2	383.2	394.0	396.5	389.4
40°	359.3	365.3	375.8	378.0	371.1
42.5°	341.0	347.0	358.3	358.6	352.9
45°	322.4	328.1	338.6	338.9	332.2
47.5°	303.4	309.2	318.6	317.5	311.3
50°	284.2	289.7	298.0	295.8	290.2
52.5°	264.4	269.7	277.5	274.0	268.7
55°	244.4	249.4	255.9	252.2	248.0
57.5°	224.3	229.3	234.3	230.5	226.9
60°	204.0	208.4	212.5	208.6	205.9
62.5°	183.4	187.1	190.6	187.0	184.4
65°	162.5	165.8	168.7	165.4	162.6
67.5°	141.7	144.6	147.2	143.8	140.9
70°	121.0	123.4	125.9	122.3	119.7
72.5°	100.5	102.7	104.9	101.4	99.1
75°	80.6	82.5	84.3	81.2	79.4
77.5°	61.6	63.2	64.4	62.5	60.7
80°	44.0	45.1	45.9	45.1	43.5
82.5°	28.3	29.1	29.5	29.4	28.4
85°	15.4	15.6	16.4	16.5	16.0
87.5°	5.9	6.3	6.5	7.0	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)