

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: P488377

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-2STD-27-120-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: P488377
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-LD4-2STD-27-120-EDD
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

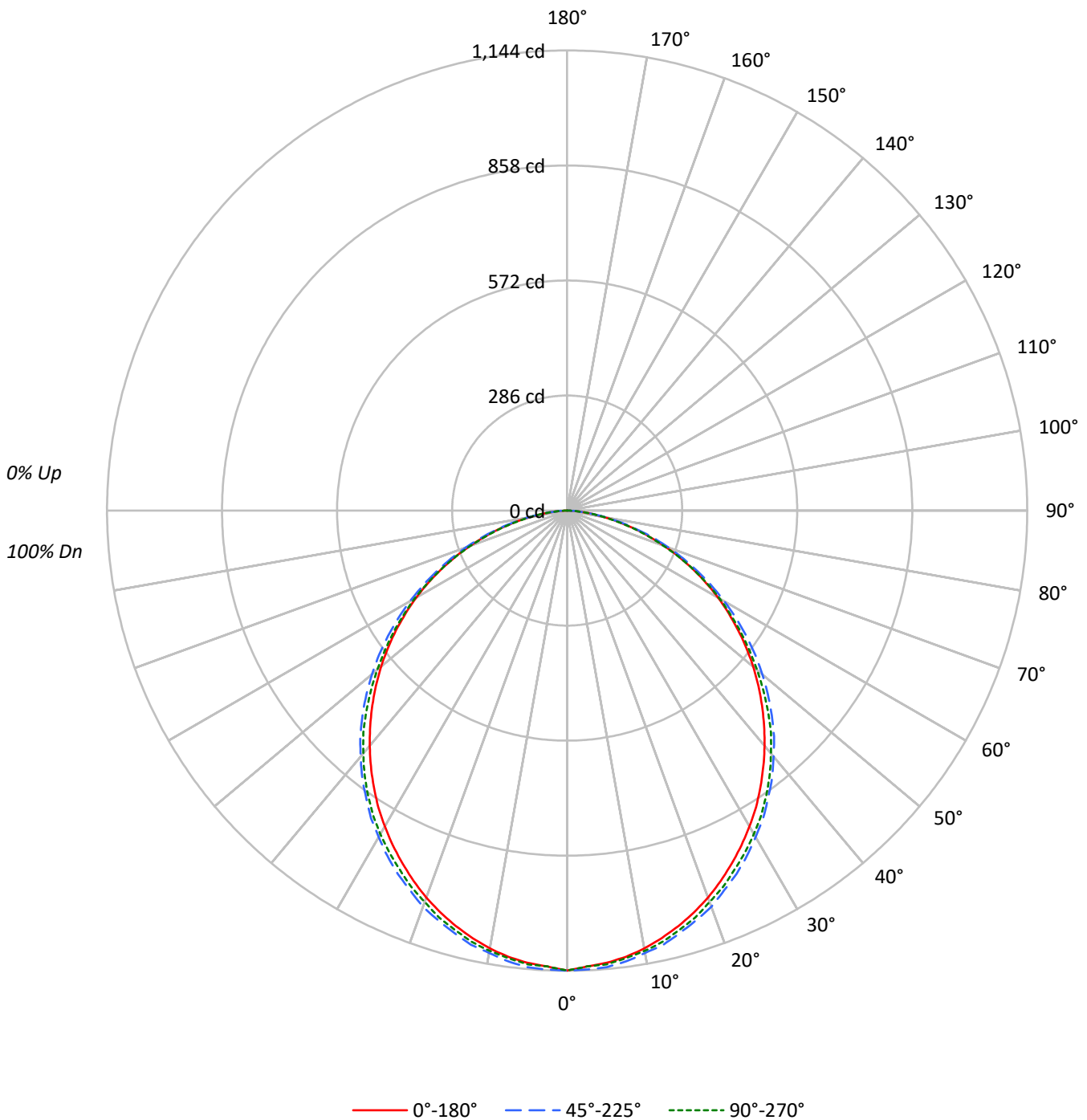
Lumens per Lamp: N/A
Luminaire Lumens: 3006.2 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	6154	6154	6154
5°	6097	6155	6116
10°	6041	6102	6073
15°	5957	6054	6011
20°	5864	6003	5931
25°	5749	5916	5849
30°	5633	5824	5771
35°	5506	5725	5671
40°	5363	5611	5539
45°	5213	5476	5373
50°	5056	5301	5162
55°	4873	5101	4944
60°	4665	4859	4709
65°	4397	4565	4400
70°	4046	4209	4000
75°	3562	3724	3508
80°	2895	3022	2861
85°	2013	2149	2100



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.7	3.6
10°-20°	305.2	10.2
20°-30°	455.1	15.1
30°-40°	539.4	17.9
40°-50°	545.8	18.2
50°-60°	476.6	15.9
60°-70°	348.3	11.6
70°-80°	185.3	6.2
80°-90°	42.8	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°	868.0	28.9
0°-40°	1407.4	46.8
0°-60°	2429.7	80.8
0°-90°	3006.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3006.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1144	1144	1144	1144	1144	
5°	1129	1131	1139	1142	1132	107
15°	1069	1076	1086	1093	1079	301
25°	968	980	996	1000	985	446
35°	838	851	871	877	863	524
45°	685	697	720	720	706	528
55°	519	530	544	536	527	464
65°	345	352	358	351	346	342
75°	171	175	179	172	169	182
85°	33	33	35	35	34	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1143.5	1143.5	1143.5	1143.5	1143.5
2.5°	1134.5	1138.2	1142.0	1143.7	1134.4
5°	1128.6	1130.7	1139.2	1141.8	1132.1
7.5°	1118.8	1122.0	1130.2	1131.4	1122.1
10°	1105.4	1111.2	1116.6	1122.6	1111.3
12.5°	1088.4	1096.2	1105.4	1106.5	1097.9
15°	1069.2	1076.4	1086.5	1093.1	1078.9
17.5°	1047.8	1054.7	1067.8	1069.0	1060.4
20°	1023.8	1032.4	1048.1	1050.9	1035.5
22.5°	996.7	1008.2	1021.3	1024.0	1012.6
25°	968.2	980.1	996.3	1000.0	984.9
27.5°	938.4	949.9	968.1	970.7	958.0
30°	906.5	917.2	937.2	941.6	928.7
32.5°	874.1	884.8	907.0	910.7	898.0
35°	838.1	851.2	871.3	877.4	863.2
37.5°	801.4	814.2	837.0	842.5	827.3
40°	763.4	776.0	798.6	803.1	788.4
42.5°	724.6	737.2	761.3	762.0	749.8
45°	684.9	697.1	719.5	720.0	705.9
47.5°	644.6	656.9	676.9	674.7	661.3
50°	603.9	615.6	633.1	628.6	616.5
52.5°	561.7	573.0	589.6	582.2	570.9
55°	519.3	529.8	543.6	535.7	526.9
57.5°	476.5	487.1	497.7	489.8	482.1
60°	433.4	442.7	451.4	443.3	437.5
62.5°	389.6	397.6	405.1	397.3	391.8
65°	345.3	352.3	358.5	351.3	345.5
67.5°	301.2	307.1	312.8	305.5	299.4
70°	257.1	262.2	267.5	259.8	254.2
72.5°	213.6	218.1	222.8	215.4	210.5
75°	171.3	175.2	179.1	172.5	168.7
77.5°	130.9	134.3	136.9	132.7	129.0
80°	93.4	95.9	97.5	95.8	92.3
82.5°	60.0	61.8	62.7	62.5	60.3
85°	32.6	33.2	34.8	35.1	34.0
87.5°	12.6	13.5	13.8	14.9	13.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)