

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: P488557

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-1STD-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: P488557
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-12-4-INS-A12125-LD4-1STD-27-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

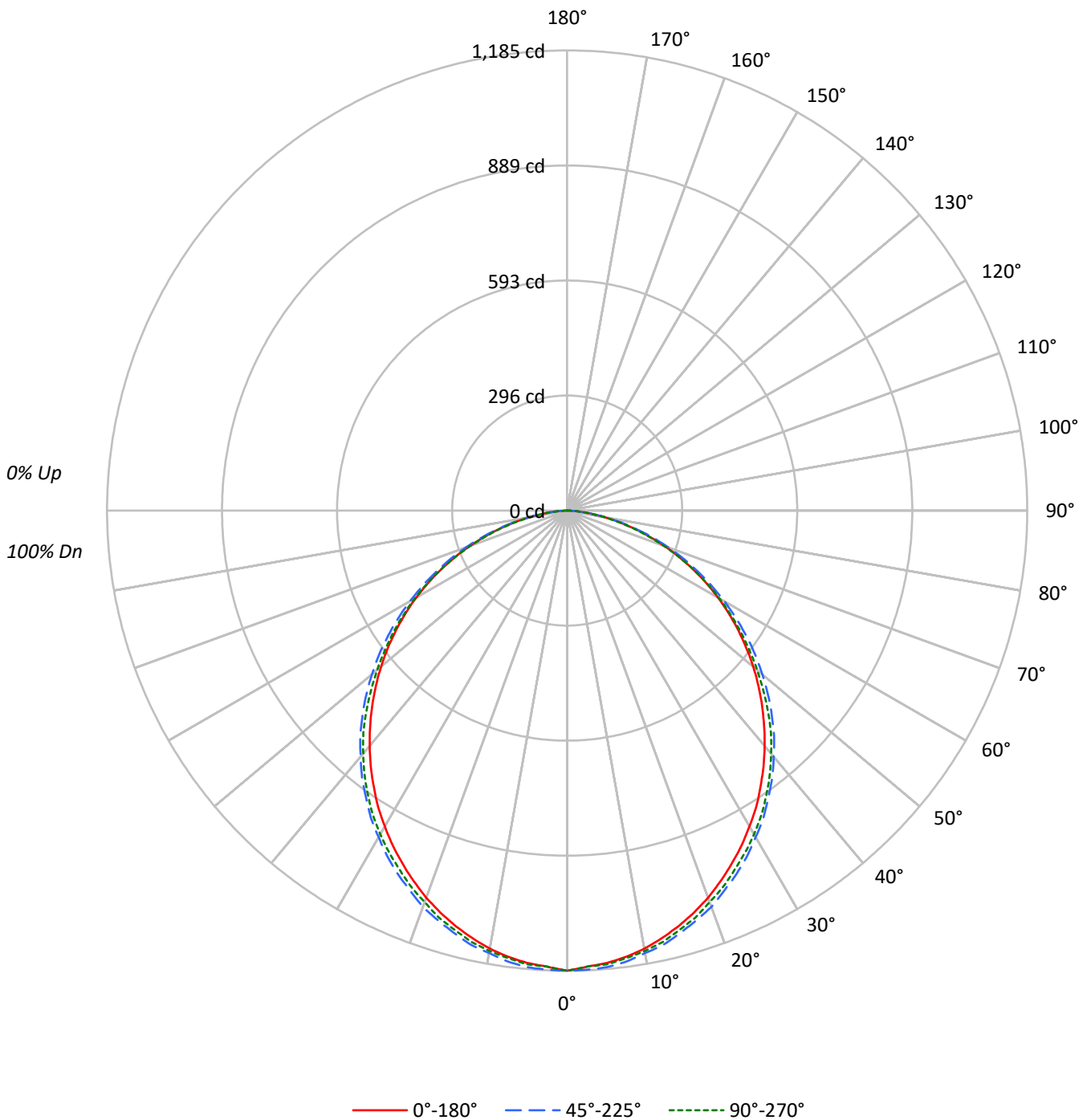
Lumens per Lamp: N/A
Luminaire Lumens: 3115.1 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	3189	3189	3189
5°	3159	3189	3169
10°	3130	3162	3146
15°	3087	3137	3115
20°	3038	3110	3073
25°	2979	3065	3030
30°	2919	3018	2990
35°	2853	2966	2939
40°	2779	2907	2870
45°	2701	2837	2783
50°	2620	2746	2675
55°	2525	2643	2562
60°	2417	2518	2440
65°	2278	2365	2280
70°	2096	2180	2072
75°	1845	1929	1817
80°	1500	1565	1483
85°	1044	1112	1087



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.6	3.6
10°-20°	316.2	10.2
20°-30°	471.6	15.1
30°-40°	558.9	17.9
40°-50°	565.5	18.2
50°-60°	493.9	15.9
60°-70°	360.9	11.6
70°-80°	192.0	6.2
80°-90°	44.4	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°	899.5	28.9
0°-40°	1458.4	46.8
0°-60°	2517.8	80.8
0°-90°	3115.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3115.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1185	1185	1185	1185	1185	
5°	1169	1172	1180	1183	1173	111
15°	1108	1115	1126	1133	1118	312
25°	1003	1016	1032	1036	1021	462
35°	868	882	903	909	894	543
45°	710	722	746	746	731	548
55°	538	549	563	555	546	481
65°	358	365	372	364	358	354
75°	178	182	186	179	175	189
85°	34	34	36	36	35	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1184.9	1184.9	1184.9	1184.9	1184.9
2.5°	1175.6	1179.4	1183.4	1185.1	1175.5
5°	1169.4	1171.7	1180.4	1183.1	1173.1
7.5°	1159.3	1162.7	1171.2	1172.4	1162.8
10°	1145.5	1151.4	1157.1	1163.3	1151.5
12.5°	1127.8	1135.9	1145.5	1146.6	1137.7
15°	1108.0	1115.4	1125.9	1132.7	1118.0
17.5°	1085.7	1092.9	1106.5	1107.7	1098.8
20°	1060.9	1069.8	1086.1	1089.0	1073.0
22.5°	1032.8	1044.8	1058.3	1061.1	1049.3
25°	1003.3	1015.6	1032.4	1036.2	1020.6
27.5°	972.4	984.3	1003.2	1005.9	992.7
30°	939.3	950.4	971.2	975.7	962.3
32.5°	905.8	916.9	939.8	943.7	930.6
35°	868.5	882.1	902.9	909.2	894.5
37.5°	830.4	843.7	867.4	873.0	857.2
40°	791.1	804.2	827.5	832.2	817.0
42.5°	750.8	763.9	788.8	789.6	777.0
45°	709.7	722.3	745.5	746.1	731.4
47.5°	668.0	680.7	701.4	699.1	685.3
50°	625.8	637.9	656.0	651.3	638.9
52.5°	582.1	593.8	611.0	603.3	591.6
55°	538.1	549.0	563.3	555.2	546.0
57.5°	493.8	504.8	515.8	507.5	499.6
60°	449.1	458.7	467.8	459.4	453.3
62.5°	403.7	412.0	419.7	411.7	406.0
65°	357.8	365.0	371.5	364.1	358.0
67.5°	312.1	318.3	324.2	316.5	310.2
70°	266.4	271.7	277.1	269.2	263.4
72.5°	221.3	226.0	230.9	223.2	218.1
75°	177.5	181.6	185.5	178.8	174.8
77.5°	135.7	139.1	141.8	137.5	133.7
80°	96.8	99.4	101.0	99.3	95.7
82.5°	62.2	64.1	64.9	64.8	62.5
85°	33.8	34.4	36.0	36.4	35.2
87.5°	13.1	13.9	14.3	15.4	14.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)