

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: P488547

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-1LO-30-120-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: P488547
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-LD4-1LO-30-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

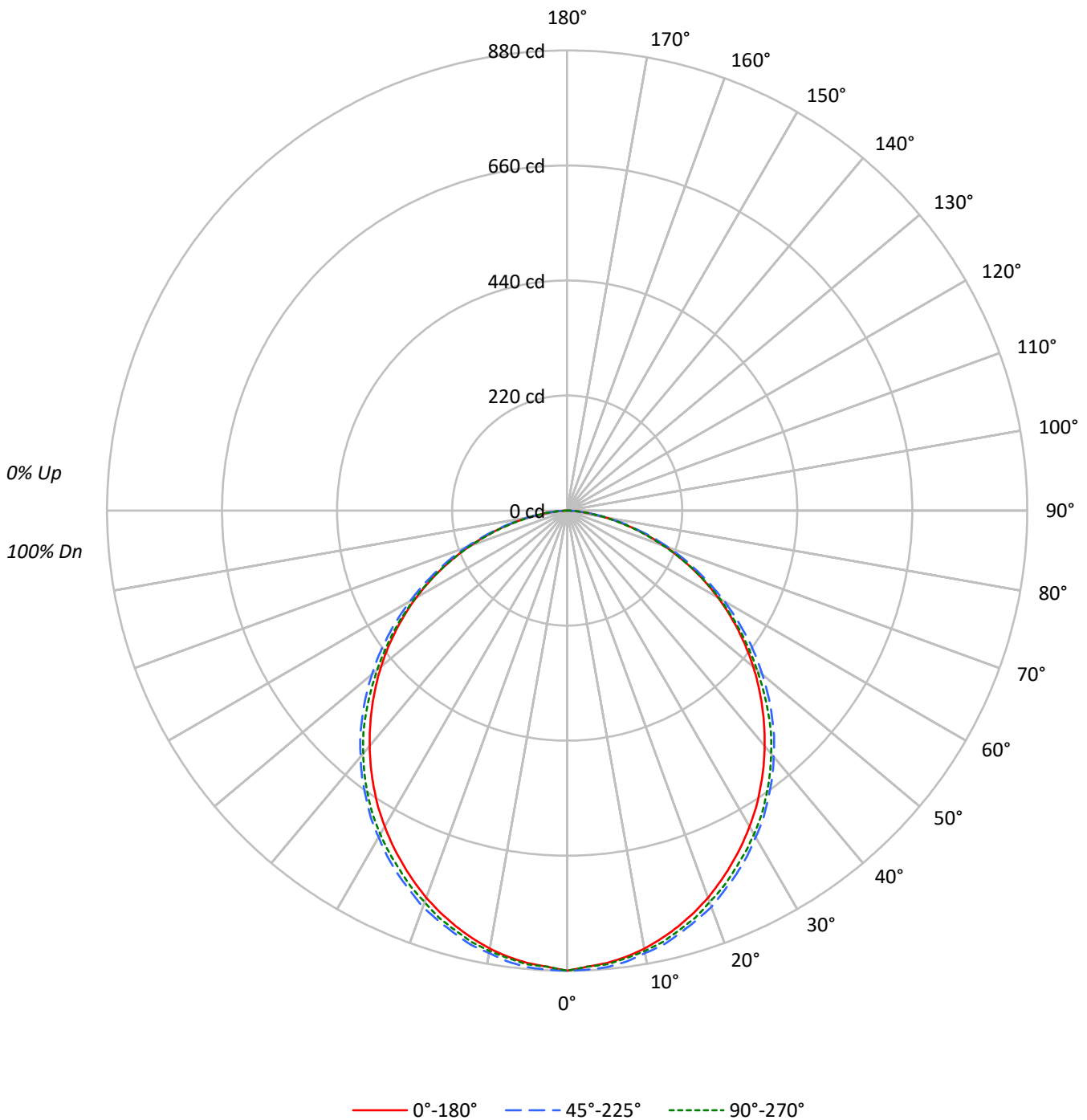
Lumens per Lamp: N/A
Luminaire Lumens: 2313.4 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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	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					100			
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85					85			
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60					60			
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51					51			
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45					45			
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39					39			
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2368	2368	2368
5°	2346	2368	2353
10°	2325	2348	2337
15°	2292	2329	2313
20°	2256	2310	2282
25°	2212	2276	2250
30°	2168	2241	2220
35°	2119	2203	2182
40°	2064	2159	2131
45°	2006	2107	2067
50°	1945	2040	1986
55°	1875	1962	1902
60°	1795	1870	1812
65°	1692	1757	1693
70°	1556	1619	1539
75°	1370	1433	1350
80°	1114	1162	1102
85°	775	827	806



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.9	3.6
10°-20°	234.8	10.2
20°-30°	350.3	15.1
30°-40°	415.1	17.9
40°-50°	420.0	18.2
50°-60°	366.8	15.9
60°-70°	268.0	11.6
70°-80°	142.6	6.2
80°-90°	33.0	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°	668.0	28.9
0°-40°	1083.0	46.8
0°-60°	1869.8	80.8
0°-90°	2313.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2313.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	880	880	880	880	880	
5°	868	870	877	879	871	82
15°	823	828	836	841	830	232
25°	745	754	767	770	758	343
35°	645	655	670	675	664	403
45°	527	536	554	554	543	407
55°	400	408	418	412	406	357
65°	266	271	276	270	266	263
75°	132	135	138	133	130	140
85°	25	26	27	27	26	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	879.9	879.9	879.9	879.9	879.9
2.5°	873.1	875.9	878.8	880.1	873.0
5°	868.5	870.1	876.6	878.7	871.2
7.5°	861.0	863.4	869.8	870.7	863.5
10°	850.7	855.1	859.3	863.9	855.2
12.5°	837.6	843.5	850.7	851.5	844.9
15°	822.8	828.3	836.1	841.2	830.2
17.5°	806.3	811.6	821.7	822.6	816.0
20°	787.9	794.5	806.6	808.7	796.9
22.5°	767.0	775.9	786.0	788.0	779.3
25°	745.1	754.2	766.7	769.6	757.9
27.5°	722.2	731.0	745.0	747.0	737.2
30°	697.6	705.8	721.2	724.6	714.6
32.5°	672.6	680.9	698.0	700.8	691.1
35°	645.0	655.0	670.5	675.2	664.3
37.5°	616.7	626.5	644.1	648.4	636.6
40°	587.5	597.2	614.5	618.0	606.7
42.5°	557.6	567.3	585.8	586.4	577.0
45°	527.1	536.4	553.6	554.1	543.2
47.5°	496.1	505.5	520.9	519.2	508.9
50°	464.7	473.7	487.2	483.7	474.4
52.5°	432.3	441.0	453.7	448.0	439.3
55°	399.6	407.7	418.3	412.3	405.5
57.5°	366.7	374.9	383.0	376.9	371.0
60°	333.5	340.7	347.4	341.1	336.6
62.5°	299.8	305.9	311.7	305.7	301.5
65°	265.7	271.1	275.9	270.4	265.9
67.5°	231.8	236.3	240.7	235.1	230.4
70°	197.8	201.8	205.8	200.0	195.6
72.5°	164.4	167.9	171.4	165.8	162.0
75°	131.8	134.9	137.8	132.8	129.8
77.5°	100.8	103.3	105.3	102.1	99.3
80°	71.9	73.8	75.0	73.7	71.1
82.5°	46.2	47.6	48.2	48.1	46.4
85°	25.1	25.6	26.8	27.0	26.1
87.5°	9.7	10.4	10.6	11.5	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)