

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: P488617

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-3LO-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: P488617
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-LD4-3LO-27-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

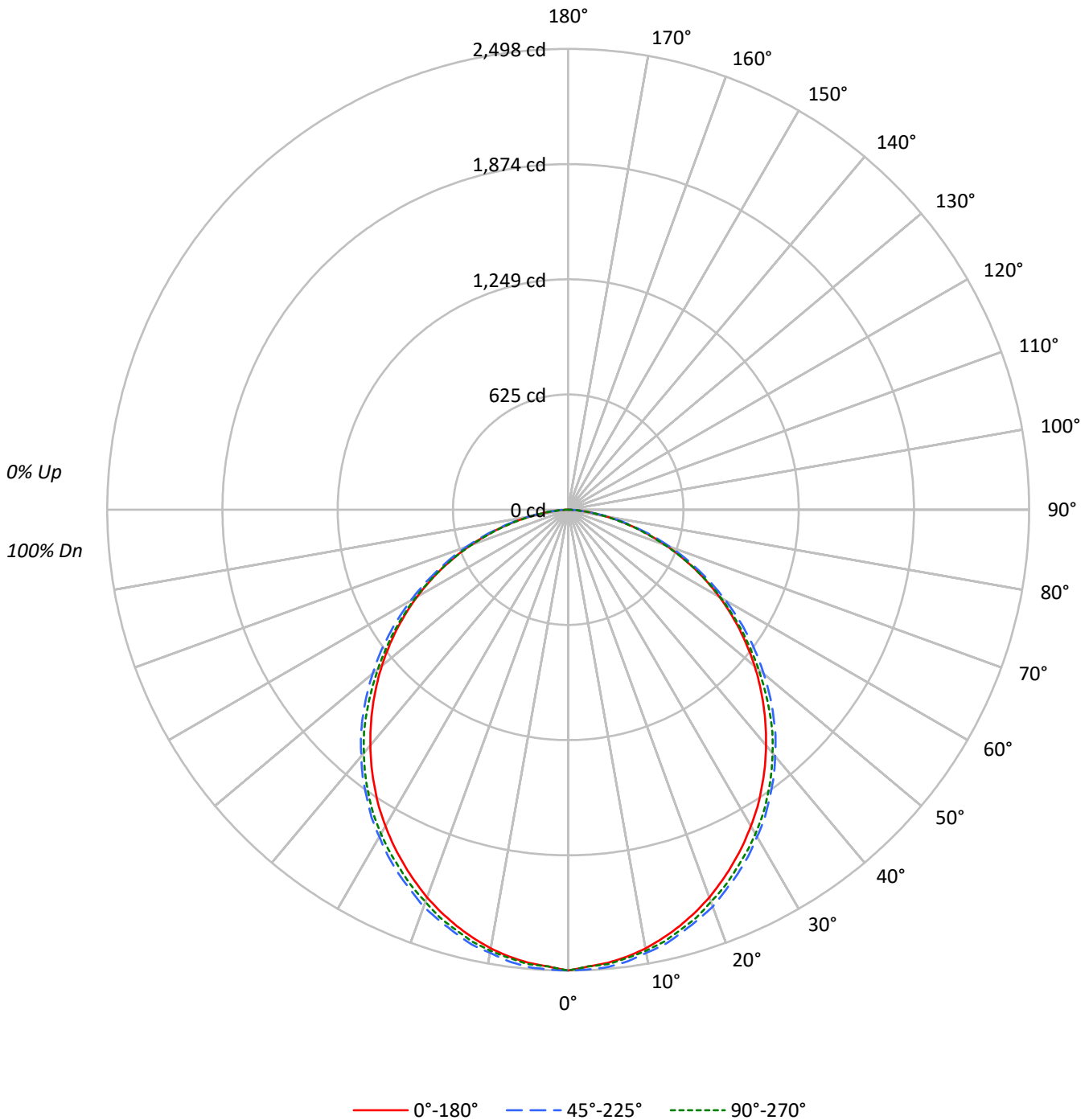
Lumens per Lamp: N/A
Luminaire Lumens: 6566.9 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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°	6722	6722	6722
5°	6659	6722	6680
10°	6598	6665	6633
15°	6507	6612	6566
20°	6405	6557	6478
25°	6280	6462	6388
30°	6153	6362	6303
35°	6014	6253	6195
40°	5858	6128	6050
45°	5694	5981	5868
50°	5523	5789	5638
55°	5322	5571	5400
60°	5096	5307	5143
65°	4802	4986	4805
70°	4419	4596	4370
75°	3891	4066	3831
80°	3161	3299	3126
85°	2201	2347	2291



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.2	3.6
10°-20°	666.6	10.2
20°-30°	994.2	15.1
30°-40°	1178.2	17.9
40°-50°	1192.2	18.2
50°-60°	1041.2	15.9
60°-70°	760.8	11.6
70°-80°	404.8	6.2
80°-90°	93.6	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°	1896.1	28.9
0°-40°	3074.3	46.8
0°-60°	5307.7	80.8
0°-90°	6566.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6566.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2498	2498	2498	2498	2498	
5°	2465	2470	2488	2494	2473	234
15°	2336	2351	2373	2388	2357	658
25°	2115	2141	2176	2184	2151	974
35°	1831	1859	1903	1917	1886	1145
45°	1496	1523	1572	1573	1542	1154
55°	1134	1157	1188	1170	1151	1014
65°	754	770	783	768	755	746
75°	374	383	391	377	368	398
85°	71	73	76	77	74	90
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2497.8	2497.8	2497.8	2497.8	2497.8
2.5°	2478.3	2486.4	2494.7	2498.3	2478.0
5°	2465.3	2470.0	2488.4	2494.2	2473.1
7.5°	2443.9	2451.0	2468.9	2471.5	2451.2
10°	2414.8	2427.3	2439.3	2452.3	2427.5
12.5°	2377.6	2394.5	2414.8	2417.1	2398.4
15°	2335.7	2351.3	2373.4	2387.7	2356.8
17.5°	2288.8	2303.9	2332.6	2335.2	2316.4
20°	2236.5	2255.3	2289.6	2295.6	2262.0
22.5°	2177.2	2202.4	2231.1	2236.8	2212.1
25°	2115.0	2141.0	2176.4	2184.5	2151.4
27.5°	2049.9	2074.9	2114.7	2120.5	2092.6
30°	1980.2	2003.6	2047.3	2057.0	2028.6
32.5°	1909.4	1932.8	1981.2	1989.3	1961.7
35°	1830.8	1859.4	1903.4	1916.7	1885.7
37.5°	1750.7	1778.5	1828.5	1840.4	1807.1
40°	1667.6	1695.2	1744.4	1754.3	1722.3
42.5°	1582.8	1610.4	1663.0	1664.5	1638.0
45°	1496.1	1522.7	1571.6	1572.9	1541.9
47.5°	1408.2	1435.0	1478.7	1473.8	1444.6
50°	1319.2	1344.7	1382.9	1373.0	1346.8
52.5°	1227.0	1251.8	1287.9	1271.8	1247.1
55°	1134.4	1157.3	1187.5	1170.3	1151.1
57.5°	1041.0	1064.1	1087.3	1069.9	1053.2
60°	946.8	967.1	986.1	968.4	955.6
62.5°	851.0	868.4	884.8	867.9	855.9
65°	754.2	769.5	783.1	767.5	754.7
67.5°	657.9	670.9	683.4	667.3	654.0
70°	561.6	572.8	584.2	567.6	555.4
72.5°	466.6	476.5	486.7	470.5	459.8
75°	374.2	382.8	391.1	376.8	368.5
77.5°	286.0	293.3	299.0	289.9	281.8
80°	204.0	209.5	212.9	209.2	201.7
82.5°	131.2	135.1	136.9	136.6	131.7
85°	71.3	72.6	76.0	76.8	74.2
87.5°	27.6	29.4	30.2	32.5	29.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)