

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: P488816

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-2STD-50-120-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: P488816
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387254)
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-P12125-LD4-2STD-50-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

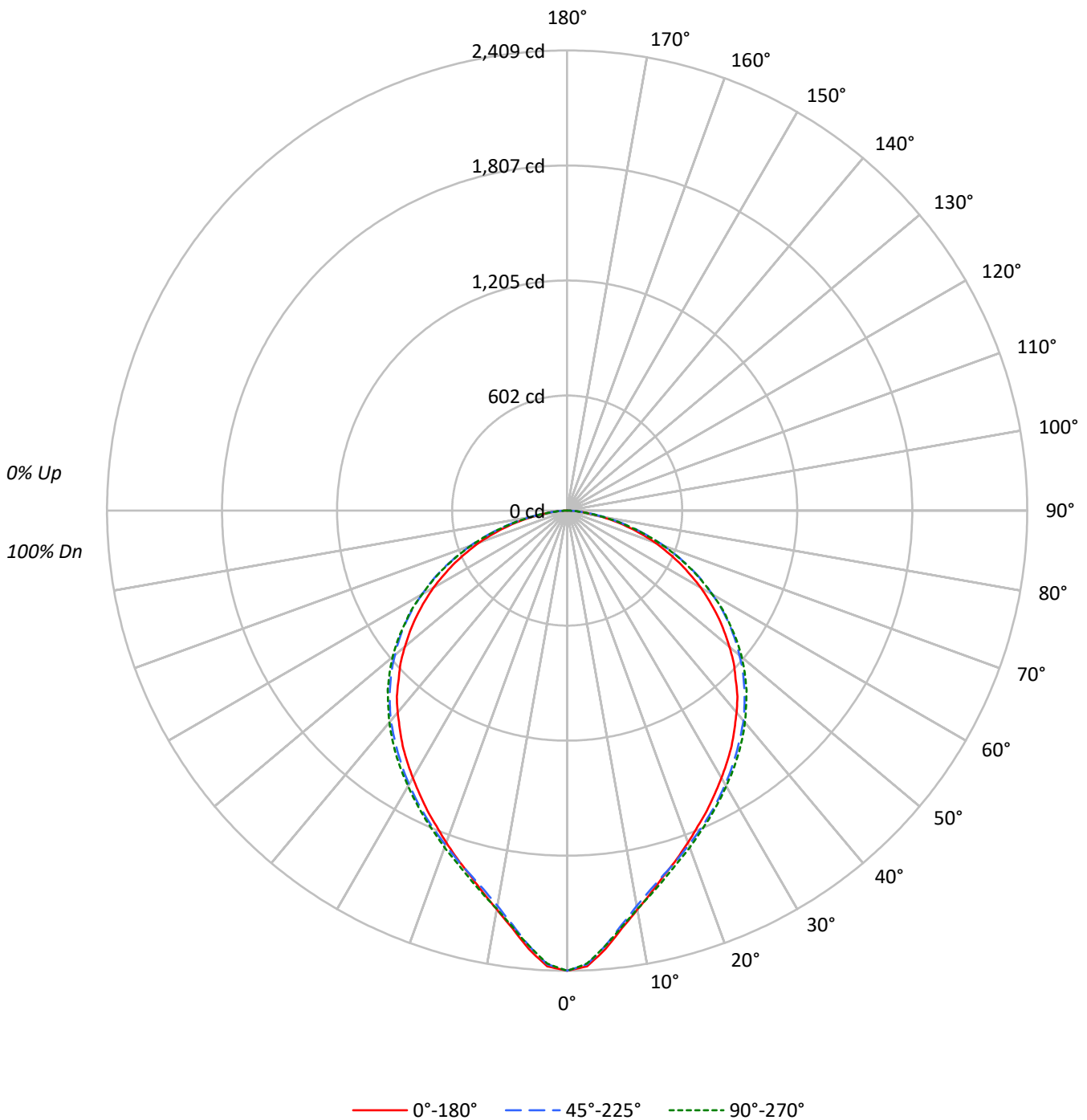
Lumens per Lamp: N/A
Luminaire Lumens: 5595.3 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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	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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70					70			
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59					59			
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51					51			
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44					44			
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38					38			
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30					30			
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27					27			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6482	6482	6482
5°	6224	6180	6180
10°	5793	5740	5784
15°	5497	5487	5540
20°	5295	5333	5375
25°	5143	5228	5258
30°	5020	5143	5175
35°	4934	5078	5129
40°	4846	5043	5085
45°	4746	4994	5053
50°	4641	4932	4997
55°	4512	4860	4880
60°	4350	4726	4717
65°	4124	4545	4514
70°	3850	4238	4187
75°	3398	3755	3717
80°	2762	3059	2910
85°	1914	1951	1877



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.9	3.8
10°-20°	557.5	10.0
20°-30°	810.8	14.5
30°-40°	964.8	17.2
40°-50°	1001.8	17.9
50°-60°	907.6	16.2
60°-70°	684.8	12.2
70°-80°	373.1	6.7
80°-90°	82.0	1.5
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°	1581.2	28.3
0°-40°	2545.9	45.5
0°-60°	4455.3	79.6
0°-90°	5595.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5595.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2409	2409	2409	2409	2409	
5°	2304	2299	2288	2287	2288	214
15°	1973	1968	1970	1983	1989	557
25°	1732	1747	1761	1775	1771	798
35°	1502	1520	1546	1569	1561	939
45°	1247	1269	1312	1327	1328	964
55°	962	985	1036	1043	1040	859
65°	648	666	714	713	709	640
75°	327	340	361	364	358	348
85°	62	63	63	63	61	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2408.9	2408.9	2408.9	2408.9	2408.9
2.5°	2387.8	2385.4	2377.6	2374.5	2373.9
5°	2304.1	2298.7	2287.9	2286.7	2287.9
7.5°	2204.2	2198.2	2187.4	2191.6	2197.0
10°	2119.9	2104.9	2100.7	2106.7	2116.9
12.5°	2044.7	2032.7	2029.0	2044.7	2051.9
15°	1973.0	1968.2	1969.5	1982.7	1988.7
17.5°	1911.1	1908.1	1915.9	1926.1	1929.1
20°	1849.1	1855.1	1862.3	1873.2	1876.8
22.5°	1788.3	1799.7	1811.8	1826.2	1821.4
25°	1732.3	1746.7	1760.6	1775.0	1770.8
27.5°	1672.7	1689.5	1708.8	1724.5	1718.5
30°	1615.5	1636.6	1655.3	1674.5	1665.5
32.5°	1559.0	1578.8	1601.1	1624.6	1614.3
35°	1501.8	1519.8	1545.7	1569.2	1561.4
37.5°	1438.6	1460.8	1490.3	1510.8	1505.4
40°	1379.6	1400.1	1435.6	1448.8	1447.6
42.5°	1320.0	1336.9	1374.2	1389.2	1386.8
45°	1247.2	1269.4	1312.2	1326.6	1327.8
47.5°	1182.8	1201.4	1247.2	1258.6	1261.0
50°	1108.7	1132.2	1178.0	1191.8	1193.6
52.5°	1035.9	1061.1	1108.1	1117.7	1119.6
55°	961.8	984.7	1035.9	1043.1	1040.1
57.5°	884.2	911.9	958.9	962.5	965.5
60°	808.3	832.4	878.2	883.0	876.4
62.5°	725.9	750.6	797.5	798.7	793.3
65°	647.6	666.3	713.8	712.7	709.0
67.5°	565.8	588.6	623.6	624.8	621.8
70°	489.3	505.0	538.7	539.3	532.1
72.5°	406.9	423.7	450.8	447.2	445.4
75°	326.8	340.1	361.2	363.6	357.5
77.5°	253.4	263.0	278.7	276.9	270.2
80°	178.2	186.0	197.4	195.0	187.8
82.5°	113.7	118.6	125.8	122.8	119.8
85°	62.0	62.6	63.2	62.6	60.8
87.5°	22.9	23.5	23.5	22.9	21.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)