

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: P489816

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-2STD-27-120-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: P489816
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-24-4-INS-P12125-LD4-2STD-27-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

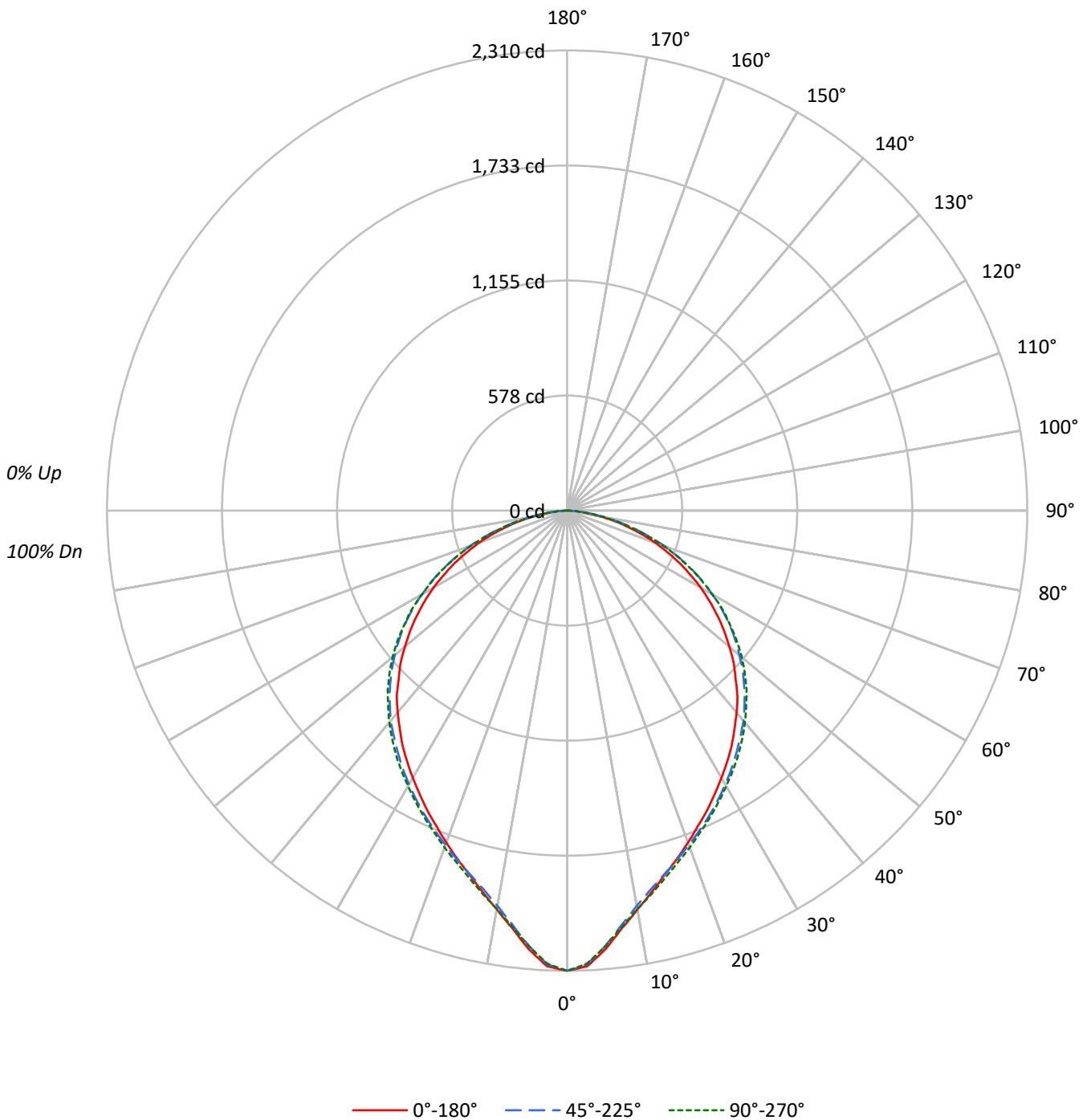
Lumens per Lamp: N/A
Luminaire Lumens: 5366.0 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3108	3108	3108
5°	2984	2963	2963
10°	2778	2752	2774
15°	2636	2631	2657
20°	2539	2557	2577
25°	2466	2507	2521
30°	2407	2466	2481
35°	2366	2435	2460
40°	2324	2418	2438
45°	2276	2394	2423
50°	2226	2365	2396
55°	2164	2330	2340
60°	2086	2266	2262
65°	1977	2180	2165
70°	1846	2032	2007
75°	1629	1801	1783
80°	1324	1468	1395
85°	919	936	900



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.1	3.8
10°-20°	534.7	10.0
20°-30°	777.5	14.5
30°-40°	925.3	17.2
40°-50°	960.7	17.9
50°-60°	870.4	16.2
60°-70°	656.8	12.2
70°-80°	357.9	6.7
80°-90°	78.6	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°	1516.4	28.3
0°-40°	2441.6	45.5
0°-60°	4272.7	79.6
0°-90°	5366.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5366.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2310	2310	2310	2310	2310	
5°	2210	2204	2194	2193	2194	205
15°	1892	1888	1889	1902	1907	534
25°	1661	1675	1688	1702	1698	766
35°	1440	1458	1482	1505	1497	900
45°	1196	1217	1258	1272	1273	925
55°	922	944	993	1000	998	824
65°	621	639	685	684	680	614
75°	313	326	346	349	343	334
85°	60	60	61	60	58	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2310.1	2310.1	2310.1	2310.1	2310.1
2.5°	2289.9	2287.6	2280.1	2277.2	2276.6
5°	2209.7	2204.5	2194.1	2193.0	2194.1
7.5°	2113.9	2108.1	2097.7	2101.8	2107.0
10°	2033.1	2018.6	2014.6	2020.4	2030.2
12.5°	1960.9	1949.4	1945.9	1960.9	1967.9
15°	1892.2	1887.6	1888.8	1901.5	1907.2
17.5°	1832.8	1829.9	1837.4	1847.2	1850.1
20°	1773.3	1779.1	1786.0	1796.4	1799.8
22.5°	1715.0	1726.0	1737.5	1751.4	1746.8
25°	1661.3	1675.2	1688.5	1702.3	1698.3
27.5°	1604.2	1620.3	1638.8	1653.8	1648.0
30°	1549.3	1569.5	1587.4	1605.9	1597.2
32.5°	1495.1	1514.1	1535.5	1558.0	1548.2
35°	1440.2	1457.6	1482.4	1504.9	1497.4
37.5°	1379.6	1401.0	1429.2	1448.9	1443.7
40°	1323.1	1342.7	1376.7	1389.4	1388.3
42.5°	1265.9	1282.1	1317.9	1332.3	1330.0
45°	1196.1	1217.4	1258.4	1272.3	1273.4
47.5°	1134.3	1152.2	1196.1	1207.0	1209.3
50°	1063.3	1085.8	1129.7	1142.9	1144.7
52.5°	993.4	1017.7	1062.7	1071.9	1073.7
55°	922.4	944.4	993.4	1000.4	997.5
57.5°	848.0	874.5	919.6	923.0	925.9
60°	775.2	798.3	842.2	846.8	840.5
62.5°	696.2	719.8	764.9	766.0	760.8
65°	621.1	639.0	684.6	683.5	680.0
67.5°	542.6	564.5	598.0	599.2	596.3
70°	469.3	484.3	516.6	517.2	510.3
72.5°	390.2	406.4	432.3	428.9	427.2
75°	313.4	326.2	346.4	348.7	342.9
77.5°	243.0	252.3	267.3	265.6	259.2
80°	170.9	178.4	189.4	187.0	180.1
82.5°	109.1	113.7	120.7	117.8	114.9
85°	59.5	60.0	60.6	60.0	58.3
87.5°	21.9	22.5	22.5	21.9	20.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)