

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: P489790

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-2HI-20-120-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: P489790
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-LD4-2HI-20-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

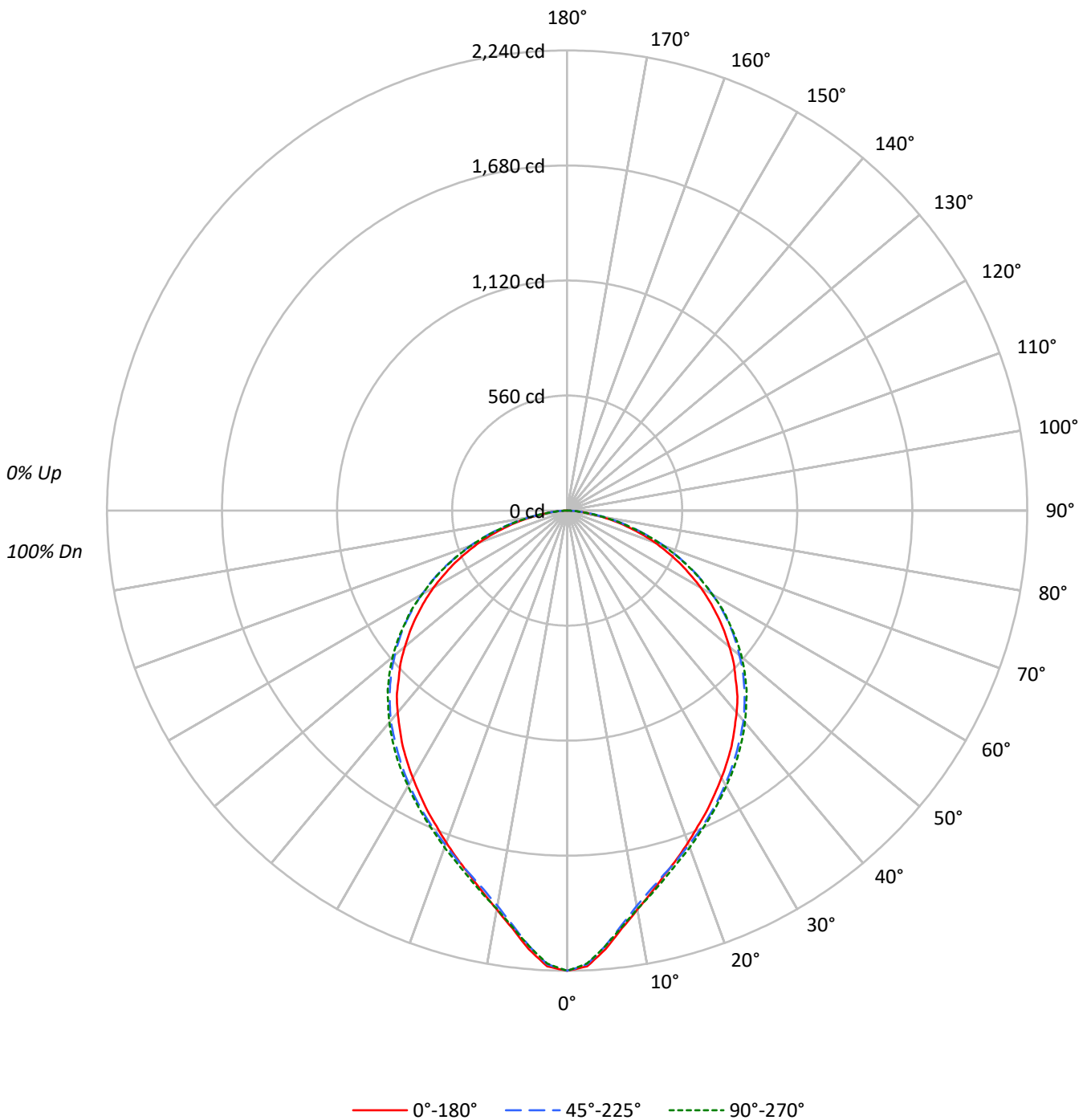
Lumens per Lamp: N/A
Luminaire Lumens: 5203.4 lumens
Efficiency: N/A
Efficacy: 60.2 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 86.4
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	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°	3014	3014	3014
5°	2894	2874	2874
10°	2694	2669	2690
15°	2556	2551	2576
20°	2462	2480	2499
25°	2392	2431	2445
30°	2334	2392	2406
35°	2294	2361	2385
40°	2253	2345	2364
45°	2207	2322	2350
50°	2158	2293	2323
55°	2098	2260	2269
60°	2023	2198	2193
65°	1918	2113	2099
70°	1790	1971	1947
75°	1580	1746	1729
80°	1284	1423	1353
85°	891	908	872



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.9	3.8
10°-20°	518.5	10.0
20°-30°	754.0	14.5
30°-40°	897.2	17.2
40°-50°	931.6	17.9
50°-60°	844.0	16.2
60°-70°	636.9	12.2
70°-80°	347.0	6.7
80°-90°	76.3	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°	1470.4	28.3
0°-40°	2367.6	45.5
0°-60°	4143.2	79.6
0°-90°	5203.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5203.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2240	2240	2240	2240	2240	
5°	2143	2138	2128	2126	2128	199
15°	1835	1830	1832	1844	1849	518
25°	1611	1624	1637	1651	1647	742
35°	1397	1413	1438	1459	1452	873
45°	1160	1180	1220	1234	1235	897
55°	894	916	963	970	967	799
65°	602	620	664	663	659	595
75°	304	316	336	338	332	324
85°	58	58	59	58	56	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2240.1	2240.1	2240.1	2240.1	2240.1
2.5°	2220.5	2218.3	2211.0	2208.2	2207.6
5°	2142.7	2137.7	2127.6	2126.5	2127.6
7.5°	2049.8	2044.2	2034.2	2038.1	2043.1
10°	1971.5	1957.5	1953.5	1959.1	1968.7
12.5°	1901.5	1890.3	1886.9	1901.5	1908.2
15°	1834.9	1830.4	1831.5	1843.8	1849.4
17.5°	1777.2	1774.4	1781.7	1791.2	1794.0
20°	1719.6	1725.2	1731.9	1742.0	1745.3
22.5°	1663.0	1673.7	1684.9	1698.3	1693.8
25°	1611.0	1624.4	1637.3	1650.7	1646.8
27.5°	1555.6	1571.2	1589.1	1603.7	1598.1
30°	1502.4	1522.0	1539.3	1557.2	1548.8
32.5°	1449.8	1468.2	1488.9	1510.8	1501.3
35°	1396.6	1413.4	1437.5	1459.3	1452.0
37.5°	1337.8	1358.5	1385.9	1405.0	1400.0
40°	1283.0	1302.0	1335.0	1347.3	1346.2
42.5°	1227.5	1243.2	1277.9	1291.9	1289.7
45°	1159.8	1180.5	1220.3	1233.7	1234.8
47.5°	1099.9	1117.3	1159.8	1170.4	1172.7
50°	1031.1	1052.9	1095.5	1108.3	1110.0
52.5°	963.3	986.8	1030.5	1039.4	1041.2
55°	894.5	915.7	963.3	970.1	967.3
57.5°	822.3	848.0	891.7	895.0	897.8
60°	751.7	774.1	816.7	821.1	815.0
62.5°	675.1	698.0	741.7	742.8	737.7
65°	602.3	619.6	663.8	662.8	659.4
67.5°	526.1	547.4	579.9	581.0	578.2
70°	455.1	469.6	501.0	501.5	494.8
72.5°	378.4	394.1	419.2	415.9	414.2
75°	303.9	316.3	335.9	338.1	332.5
77.5°	235.7	244.6	259.2	257.5	251.3
80°	165.7	173.0	183.6	181.4	174.6
82.5°	105.8	110.3	117.0	114.2	111.4
85°	57.7	58.2	58.8	58.2	56.5
87.5°	21.3	21.8	21.8	21.3	19.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)