

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: P489289

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-3HI-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: P489289
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-24-2-INS-P12125-LD4-3HI-27-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

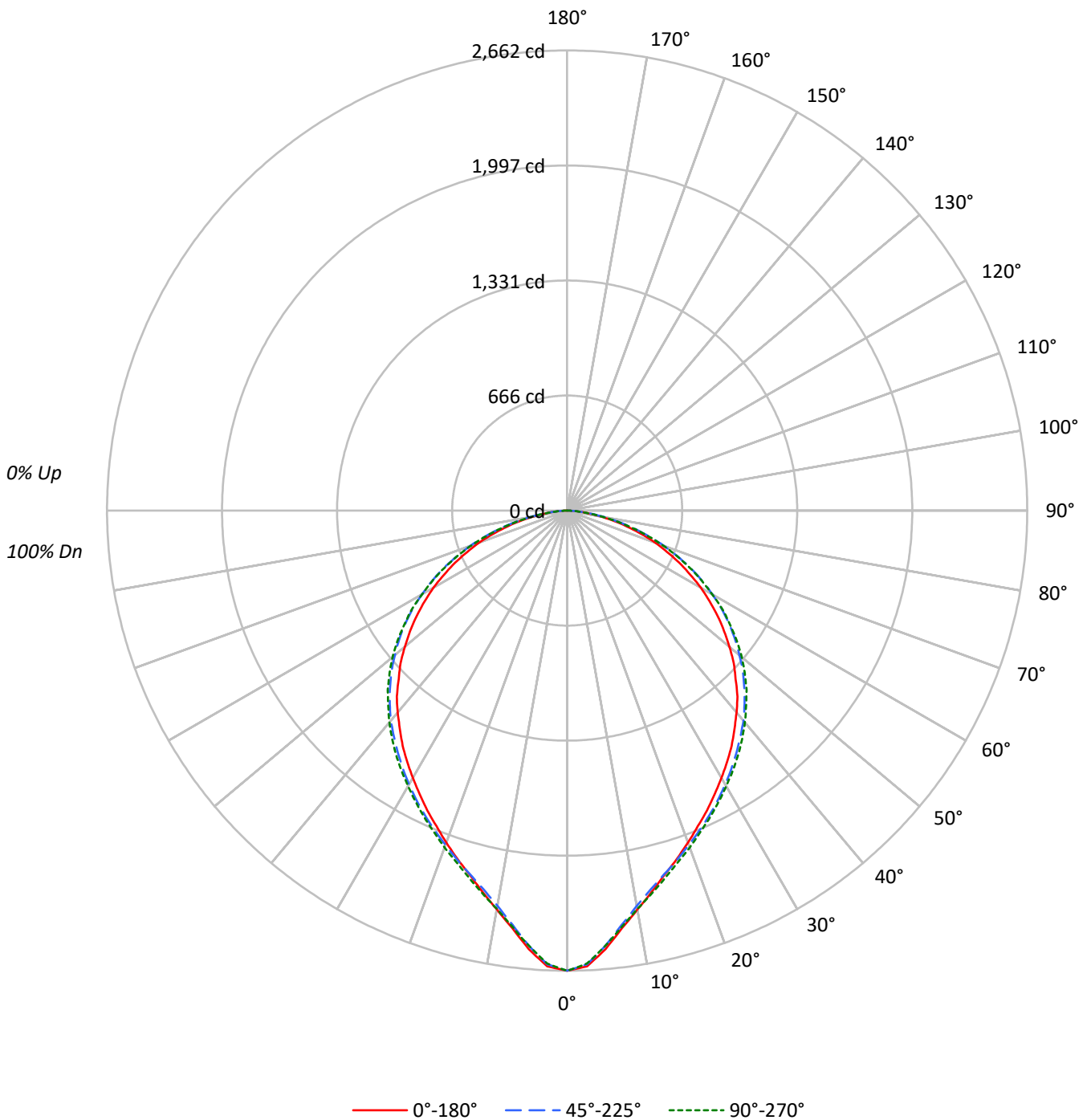
Lumens per Lamp: N/A
Luminaire Lumens: 6182.9 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
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°	7163	7163	7163
5°	6878	6829	6829
10°	6401	6343	6392
15°	6074	6063	6122
20°	5851	5893	5939
25°	5684	5777	5810
30°	5547	5684	5719
35°	5452	5611	5668
40°	5355	5572	5619
45°	5245	5518	5584
50°	5129	5449	5522
55°	4986	5370	5392
60°	4807	5223	5212
65°	4557	5023	4989
70°	4254	4684	4626
75°	3755	4149	4108
80°	3051	3381	3216
85°	2115	2155	2075



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.2	3.8
10°-20°	616.1	10.0
20°-30°	895.9	14.5
30°-40°	1066.1	17.2
40°-50°	1107.0	17.9
50°-60°	1002.9	16.2
60°-70°	756.8	12.2
70°-80°	412.3	6.7
80°-90°	90.6	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°	1747.2	28.3
0°-40°	2813.3	45.5
0°-60°	4923.2	79.6
0°-90°	6182.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6182.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2662	2662	2662	2662	2662	
5°	2546	2540	2528	2527	2528	236
15°	2180	2175	2176	2191	2198	615
25°	1914	1930	1946	1962	1957	882
35°	1660	1679	1708	1734	1725	1038
45°	1378	1403	1450	1466	1467	1065
55°	1063	1088	1145	1153	1149	949
65°	716	736	789	788	784	708
75°	361	376	399	402	395	385
85°	68	69	70	69	67	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2661.8	2661.8	2661.8	2661.8	2661.8
2.5°	2638.5	2635.9	2627.2	2623.9	2623.2
5°	2546.1	2540.1	2528.1	2526.8	2528.1
7.5°	2435.7	2429.0	2417.1	2421.7	2427.7
10°	2342.6	2325.9	2321.3	2327.9	2339.2
12.5°	2259.4	2246.1	2242.1	2259.4	2267.4
15°	2180.3	2174.9	2176.3	2190.9	2197.6
17.5°	2111.8	2108.4	2117.1	2128.4	2131.7
20°	2043.3	2049.9	2057.9	2069.9	2073.8
22.5°	1976.1	1988.7	2002.0	2018.0	2012.7
25°	1914.2	1930.2	1945.5	1961.5	1956.8
27.5°	1848.4	1867.0	1888.3	1905.6	1898.9
30°	1785.2	1808.5	1829.1	1850.4	1840.4
32.5°	1722.7	1744.6	1769.2	1795.2	1783.9
35°	1659.5	1679.4	1708.1	1734.0	1725.4
37.5°	1589.7	1614.3	1646.8	1669.4	1663.5
40°	1524.5	1547.1	1586.3	1601.0	1599.6
42.5°	1458.6	1477.3	1518.5	1535.1	1532.4
45°	1378.2	1402.7	1450.0	1466.0	1467.3
47.5°	1307.0	1327.6	1378.2	1390.8	1393.4
50°	1225.2	1251.1	1301.7	1316.9	1319.0
52.5°	1144.7	1172.6	1224.5	1235.1	1237.2
55°	1062.8	1088.1	1144.7	1152.7	1149.3
57.5°	977.1	1007.7	1059.6	1063.5	1066.9
60°	893.2	919.9	970.4	975.7	968.4
62.5°	802.2	829.4	881.3	882.6	876.6
65°	715.7	736.3	788.8	787.5	783.5
67.5°	625.2	650.5	689.1	690.4	687.1
70°	540.7	558.0	595.3	596.0	588.0
72.5°	449.6	468.2	498.2	494.2	492.2
75°	361.2	375.8	399.1	401.8	395.1
77.5°	280.0	290.7	308.0	306.0	298.6
80°	196.9	205.5	218.2	215.5	207.5
82.5°	125.7	131.1	139.0	135.7	132.4
85°	68.5	69.1	69.8	69.1	67.2
87.5°	25.3	26.0	26.0	25.3	23.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)