

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: P489351

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-4STD-30-120-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: P489351
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-LD4-4STD-30-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

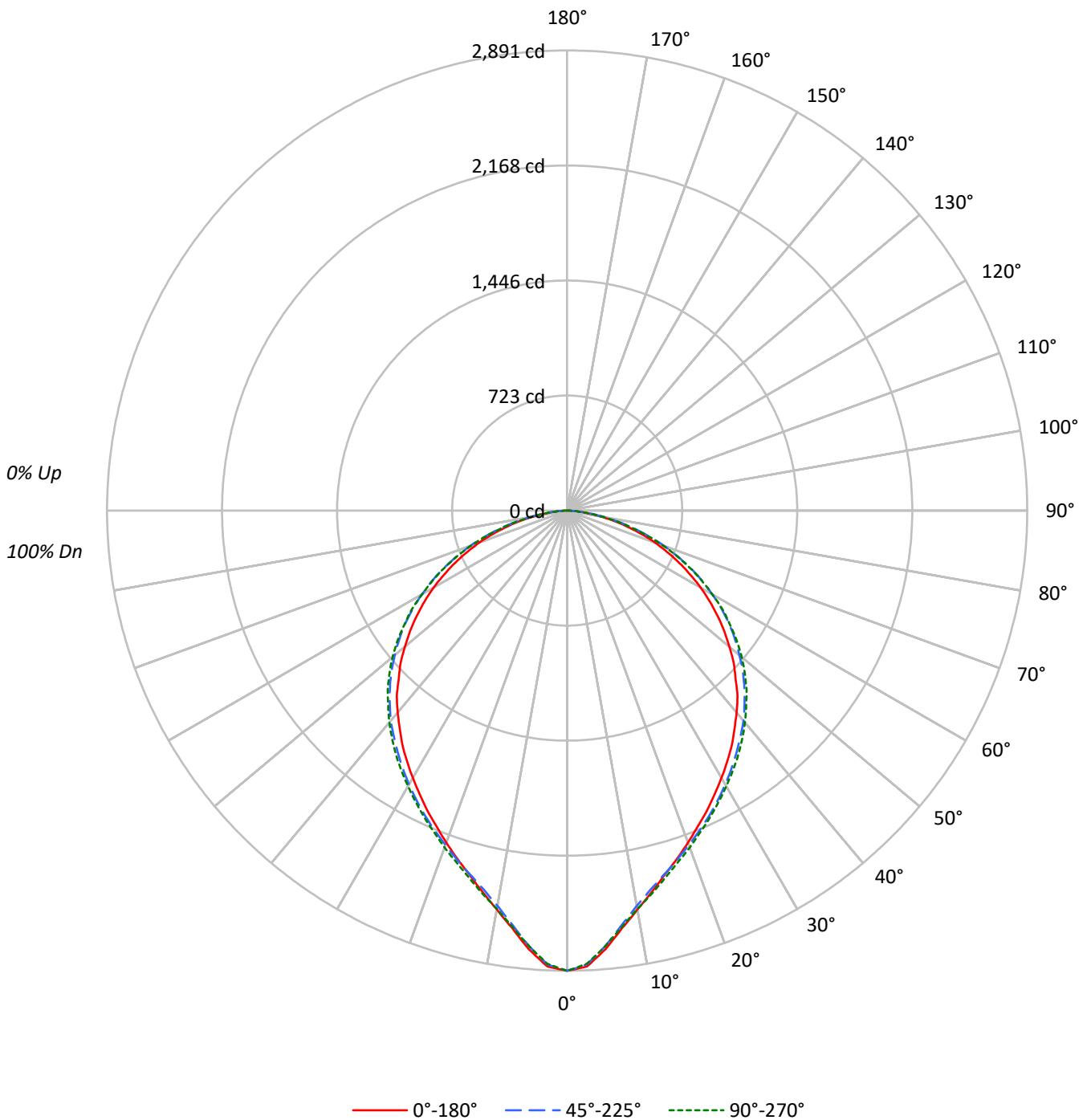
Lumens per Lamp: N/A
Luminaire Lumens: 6716.0 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	7780	7780	7780
5°	7471	7418	7418
10°	6953	6890	6943
15°	6598	6586	6650
20°	6356	6401	6451
25°	6174	6275	6311
30°	6025	6174	6212
35°	5922	6095	6157
40°	5817	6053	6104
45°	5697	5994	6065
50°	5571	5919	5998
55°	5416	5834	5857
60°	5222	5673	5661
65°	4950	5456	5419
70°	4621	5087	5025
75°	4079	4507	4461
80°	3313	3673	3493
85°	2297	2340	2254



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.5	3.8
10°-20°	669.2	10.0
20°-30°	973.2	14.5
30°-40°	1158.0	17.2
40°-50°	1202.5	17.9
50°-60°	1089.3	16.2
60°-70°	822.0	12.2
70°-80°	447.9	6.7
80°-90°	98.4	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°	1897.9	28.3
0°-40°	3055.9	45.5
0°-60°	5347.7	79.6
0°-90°	6716.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6716.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2891	2891	2891	2891	2891	
5°	2766	2759	2746	2745	2746	257
15°	2368	2362	2364	2380	2387	668
25°	2079	2097	2113	2131	2126	958
35°	1803	1824	1855	1884	1874	1127
45°	1497	1524	1575	1592	1594	1157
55°	1154	1182	1243	1252	1248	1031
65°	777	800	857	855	851	768
75°	392	408	434	436	429	418
85°	74	75	76	75	73	94
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2891.3	2891.3	2891.3	2891.3	2891.3
2.5°	2866.0	2863.2	2853.8	2850.1	2849.4
5°	2765.6	2759.1	2746.1	2744.7	2746.1
7.5°	2645.7	2638.4	2625.5	2630.5	2637.0
10°	2544.6	2526.5	2521.4	2528.6	2540.9
12.5°	2454.2	2439.8	2435.4	2454.2	2462.9
15°	2368.2	2362.5	2363.9	2379.8	2387.0
17.5°	2293.9	2290.2	2299.6	2311.9	2315.5
20°	2219.4	2226.7	2235.3	2248.4	2252.7
22.5°	2146.5	2160.2	2174.7	2192.0	2186.2
25°	2079.3	2096.6	2113.3	2130.6	2125.5
27.5°	2007.7	2028.0	2051.1	2069.9	2062.6
30°	1939.1	1964.4	1986.8	2009.9	1999.1
32.5°	1871.2	1895.1	1921.8	1950.0	1937.7
35°	1802.6	1824.2	1855.3	1883.5	1874.1
37.5°	1726.7	1753.4	1788.8	1813.4	1806.9
40°	1655.9	1680.5	1723.1	1739.0	1737.5
42.5°	1584.4	1604.6	1649.4	1667.5	1664.6
45°	1497.0	1523.7	1575.0	1592.4	1593.8
47.5°	1419.7	1442.1	1497.0	1510.7	1513.6
50°	1330.8	1359.0	1413.9	1430.5	1432.7
52.5°	1243.4	1273.7	1330.1	1341.6	1343.8
55°	1154.5	1181.9	1243.4	1252.1	1248.4
57.5°	1061.3	1094.5	1150.9	1155.2	1158.8
60°	970.3	999.2	1054.1	1059.9	1051.9
62.5°	871.3	900.9	957.3	958.7	952.2
65°	777.4	799.8	856.8	855.4	851.0
67.5°	679.1	706.5	748.5	749.9	746.3
70°	587.3	606.1	646.6	647.3	638.7
72.5°	488.4	508.6	541.1	536.8	534.7
75°	392.3	408.2	433.5	436.4	429.1
77.5°	304.2	315.7	334.5	332.4	324.4
80°	213.8	223.2	237.0	234.1	225.4
82.5°	136.5	142.4	151.0	147.4	143.8
85°	74.4	75.1	75.8	75.1	73.0
87.5°	27.5	28.2	28.2	27.5	25.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)