

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: P489354

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-4STD-40-120-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: P489354
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-40-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

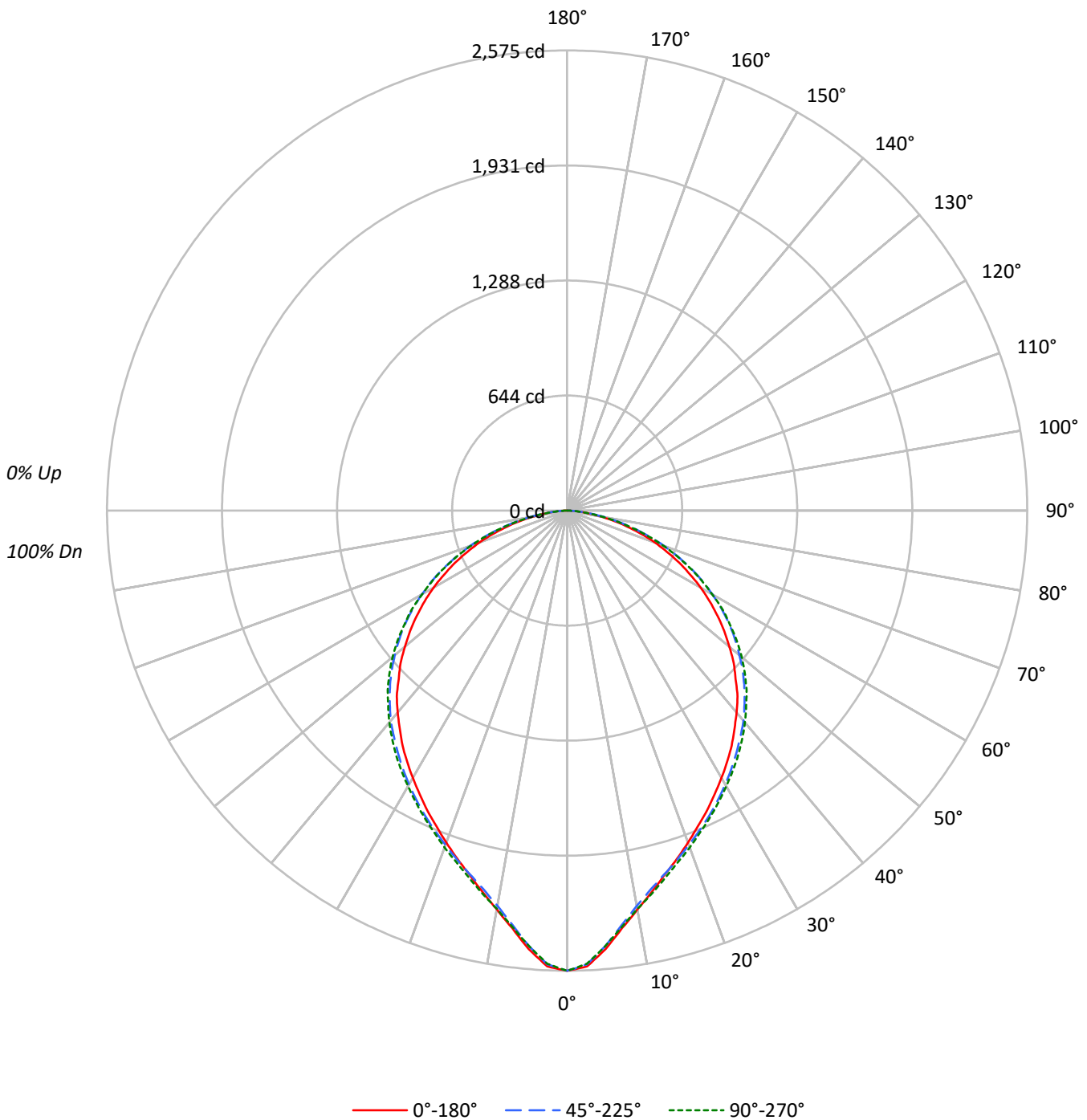
Lumens per Lamp: N/A
Luminaire Lumens: 5981.9 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	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°	6930	6930	6930
5°	6654	6607	6607
10°	6193	6137	6184
15°	5877	5866	5923
20°	5661	5702	5746
25°	5499	5589	5621
30°	5367	5499	5533
35°	5274	5429	5484
40°	5181	5391	5436
45°	5074	5339	5402
50°	4962	5272	5342
55°	4824	5195	5217
60°	4651	5053	5042
65°	4409	4860	4826
70°	4116	4531	4476
75°	3633	4014	3974
80°	2952	3271	3110
85°	2047	2087	2007



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.6	3.8
10°-20°	596.1	10.0
20°-30°	866.8	14.5
30°-40°	1031.5	17.2
40°-50°	1071.0	17.9
50°-60°	970.3	16.2
60°-70°	732.2	12.2
70°-80°	398.9	6.7
80°-90°	87.7	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°	1690.4	28.3
0°-40°	2721.9	45.5
0°-60°	4763.1	79.6
0°-90°	5981.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5981.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2575	2575	2575	2575	2575	
5°	2463	2458	2446	2445	2446	229
15°	2109	2104	2106	2120	2126	595
25°	1852	1867	1882	1898	1893	853
35°	1606	1625	1652	1678	1669	1004
45°	1333	1357	1403	1418	1420	1031
55°	1028	1053	1107	1115	1112	918
65°	692	712	763	762	758	684
75°	349	364	386	389	382	372
85°	66	67	68	67	65	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2575.3	2575.3	2575.3	2575.3	2575.3
2.5°	2552.8	2550.2	2541.8	2538.6	2537.9
5°	2463.3	2457.5	2445.9	2444.7	2445.9
7.5°	2356.5	2350.1	2338.5	2343.0	2348.8
10°	2266.4	2250.3	2245.8	2252.2	2263.2
12.5°	2186.0	2173.1	2169.2	2186.0	2193.7
15°	2109.4	2104.2	2105.5	2119.7	2126.1
17.5°	2043.1	2039.9	2048.3	2059.2	2062.4
20°	1976.8	1983.3	1991.0	2002.6	2006.4
22.5°	1911.9	1924.1	1937.0	1952.4	1947.2
25°	1852.0	1867.4	1882.3	1897.7	1893.2
27.5°	1788.3	1806.3	1826.9	1843.6	1837.2
30°	1727.1	1749.7	1769.6	1790.2	1780.6
32.5°	1666.7	1687.9	1711.7	1736.8	1725.9
35°	1605.5	1624.8	1652.5	1677.6	1669.3
37.5°	1538.0	1561.8	1593.3	1615.2	1609.4
40°	1474.9	1496.8	1534.8	1548.9	1547.6
42.5°	1411.2	1429.2	1469.1	1485.2	1482.6
45°	1333.4	1357.1	1402.8	1418.3	1419.6
47.5°	1264.5	1284.5	1333.4	1345.6	1348.1
50°	1185.3	1210.4	1259.3	1274.1	1276.1
52.5°	1107.4	1134.5	1184.7	1195.0	1196.9
55°	1028.3	1052.7	1107.4	1115.2	1112.0
57.5°	945.3	974.9	1025.1	1029.0	1032.2
60°	864.2	890.0	938.9	944.0	936.9
62.5°	776.1	802.4	852.7	853.9	848.1
65°	692.4	712.4	763.2	761.9	758.0
67.5°	604.9	629.3	666.7	667.9	664.8
70°	523.1	539.9	575.9	576.6	568.9
72.5°	435.0	453.0	482.0	478.1	476.2
75°	349.4	363.6	386.1	388.7	382.2
77.5°	270.9	281.2	297.9	296.0	288.9
80°	190.5	198.8	211.1	208.5	200.7
82.5°	121.6	126.8	134.5	131.3	128.1
85°	66.3	66.9	67.6	66.9	65.0
87.5°	24.5	25.1	25.1	24.5	22.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)