

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: P489292

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-3HI-35-120-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: P489292
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-35-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

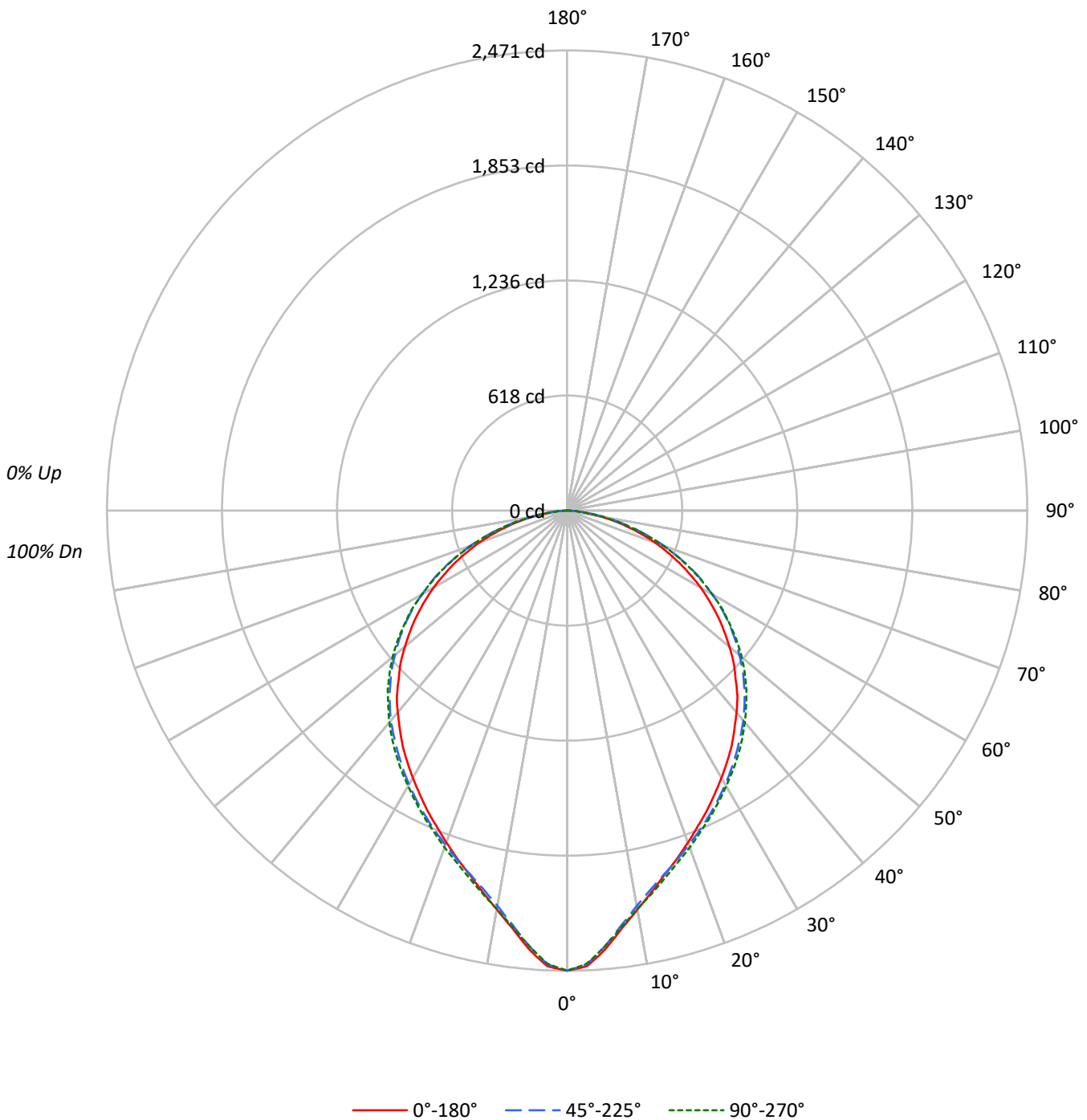
Lumens per Lamp: N/A
Luminaire Lumens: 5738.8 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	6648	6648	6648
5°	6384	6339	6339
10°	5941	5887	5933
15°	5638	5628	5682
20°	5431	5470	5512
25°	5275	5362	5393
30°	5148	5275	5308
35°	5060	5208	5261
40°	4971	5172	5215
45°	4868	5122	5183
50°	4761	5058	5125
55°	4628	4984	5005
60°	4462	4848	4838
65°	4229	4662	4630
70°	3949	4347	4294
75°	3485	3851	3813
80°	2831	3138	2985
85°	1964	2001	1924



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.3	3.8
10°-20°	571.8	10.0
20°-30°	831.6	14.5
30°-40°	989.5	17.2
40°-50°	1027.5	17.9
50°-60°	930.8	16.2
60°-70°	702.4	12.2
70°-80°	382.7	6.7
80°-90°	84.1	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°	1621.7	28.3
0°-40°	2611.2	45.5
0°-60°	4569.6	79.6
0°-90°	5738.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5738.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2471	2471	2471	2471	2471	
5°	2363	2358	2346	2345	2346	219
15°	2024	2019	2020	2034	2040	571
25°	1777	1792	1806	1821	1816	819
35°	1540	1559	1585	1610	1601	963
45°	1279	1302	1346	1361	1362	989
55°	986	1010	1062	1070	1067	881
65°	664	683	732	731	727	657
75°	335	349	370	373	367	357
85°	64	64	65	64	62	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2470.6	2470.6	2470.6	2470.6	2470.6
2.5°	2449.0	2446.6	2438.5	2435.4	2434.8
5°	2363.2	2357.7	2346.5	2345.3	2346.5
7.5°	2260.7	2254.5	2243.5	2247.8	2253.3
10°	2174.3	2158.9	2154.5	2160.7	2171.2
12.5°	2097.1	2084.8	2081.1	2097.1	2104.6
15°	2023.7	2018.7	2020.0	2033.6	2039.7
17.5°	1960.1	1957.0	1965.0	1975.5	1978.6
20°	1896.5	1902.7	1910.1	1921.2	1924.9
22.5°	1834.2	1845.9	1858.2	1873.0	1868.1
25°	1776.7	1791.5	1805.8	1820.6	1816.3
27.5°	1715.6	1732.9	1752.7	1768.7	1762.5
30°	1656.9	1678.6	1697.7	1717.4	1708.2
32.5°	1599.0	1619.3	1642.1	1666.2	1655.7
35°	1540.3	1558.8	1585.4	1609.5	1601.4
37.5°	1475.5	1498.3	1528.5	1549.5	1544.0
40°	1415.0	1436.0	1472.4	1486.0	1484.7
42.5°	1353.8	1371.2	1409.4	1424.8	1422.4
45°	1279.2	1302.0	1345.8	1360.7	1361.9
47.5°	1213.1	1232.3	1279.2	1290.9	1293.3
50°	1137.2	1161.3	1208.2	1222.3	1224.2
52.5°	1062.4	1088.4	1136.5	1146.4	1148.3
55°	986.5	1010.0	1062.4	1069.9	1066.8
57.5°	906.9	935.3	983.5	987.1	990.2
60°	829.1	853.8	900.7	905.6	898.9
62.5°	744.5	769.8	818.0	819.2	813.6
65°	664.2	683.4	732.2	730.9	727.2
67.5°	580.3	603.7	639.6	640.8	637.7
70°	501.9	517.9	552.5	553.2	545.8
72.5°	417.3	434.6	462.4	458.7	456.9
75°	335.2	348.8	370.4	372.9	366.7
77.5°	259.9	269.8	285.8	284.0	277.2
80°	182.7	190.8	202.5	200.0	192.6
82.5°	116.7	121.6	129.0	125.9	122.8
85°	63.6	64.2	64.8	64.2	62.3
87.5°	23.5	24.1	24.1	23.5	21.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)