

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: P489375

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-5LO-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: P489375
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-LD4-5LO-30-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

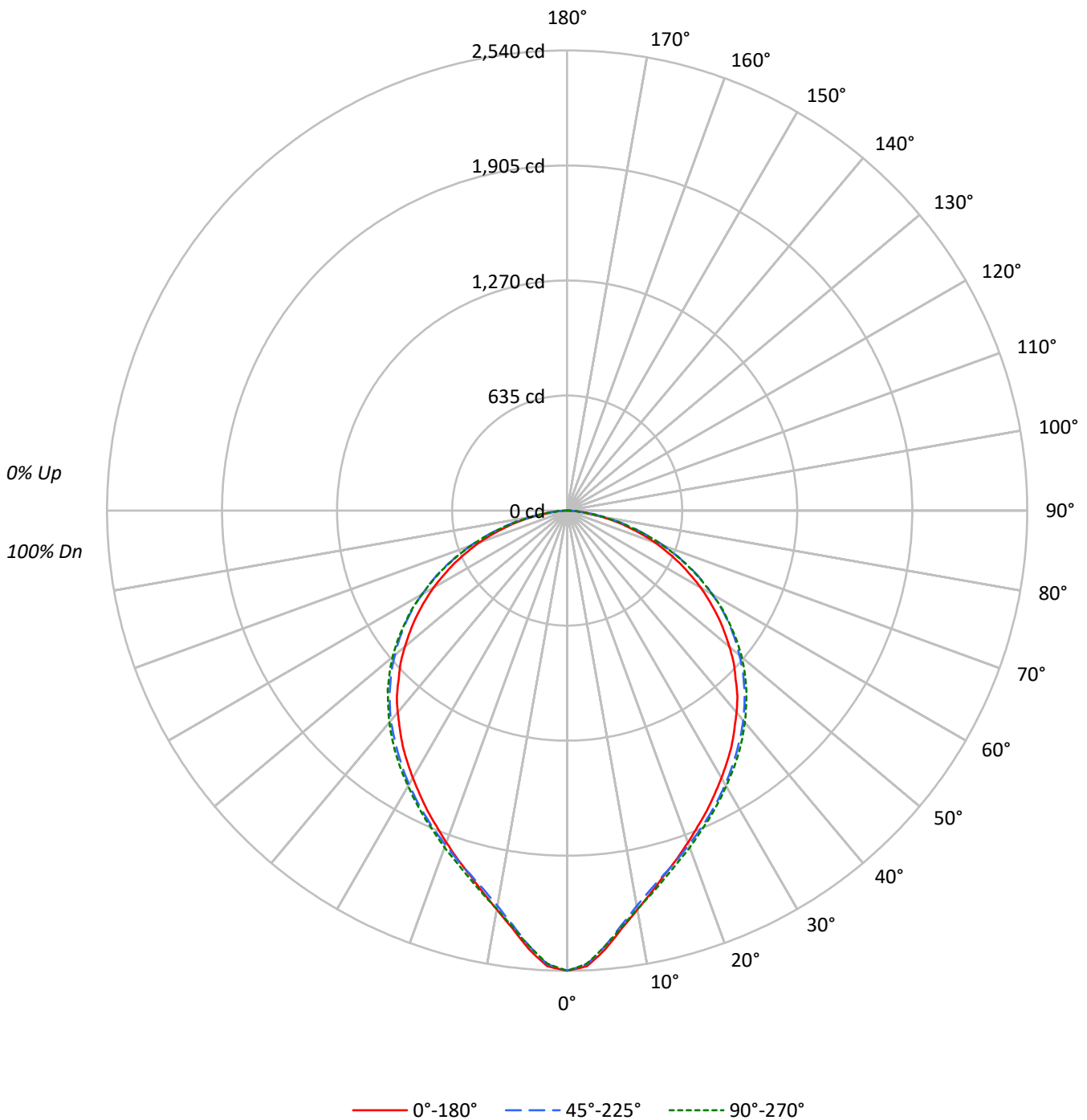
Lumens per Lamp: N/A
Luminaire Lumens: 5899.2 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 58.5
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°	6834	6834	6834
5°	6562	6516	6516
10°	6107	6052	6099
15°	5795	5785	5841
20°	5583	5623	5666
25°	5423	5511	5543
30°	5293	5423	5456
35°	5201	5354	5408
40°	5109	5317	5361
45°	5004	5265	5327
50°	4894	5199	5268
55°	4758	5124	5145
60°	4587	4983	4973
65°	4348	4792	4760
70°	4059	4469	4414
75°	3583	3959	3920
80°	2910	3226	3068
85°	2019	2056	1979



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.4	3.8
10°-20°	587.8	10.0
20°-30°	854.8	14.5
30°-40°	1017.2	17.2
40°-50°	1056.2	17.9
50°-60°	956.9	16.2
60°-70°	722.0	12.2
70°-80°	393.4	6.7
80°-90°	86.5	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°	1667.0	28.3
0°-40°	2684.2	45.5
0°-60°	4697.3	79.6
0°-90°	5899.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5899.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2540	2540	2540	2540	2540	
5°	2429	2424	2412	2411	2412	225
15°	2080	2075	2076	2090	2097	587
25°	1826	1842	1856	1872	1867	842
35°	1583	1602	1630	1654	1646	990
45°	1315	1338	1383	1399	1400	1016
55°	1014	1038	1092	1100	1097	905
65°	683	702	753	751	748	675
75°	345	359	381	383	377	367
85°	65	66	67	66	64	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2539.7	2539.7	2539.7	2539.7	2539.7
2.5°	2517.5	2514.9	2506.7	2503.5	2502.9
5°	2429.3	2423.6	2412.1	2410.9	2412.1
7.5°	2323.9	2317.6	2306.2	2310.6	2316.3
10°	2235.1	2219.2	2214.7	2221.1	2231.9
12.5°	2155.7	2143.1	2139.2	2155.7	2163.4
15°	2080.2	2075.1	2076.4	2090.4	2096.7
17.5°	2014.9	2011.7	2020.0	2030.7	2033.9
20°	1949.5	1955.9	1963.5	1974.9	1978.7
22.5°	1885.4	1897.5	1910.2	1925.4	1920.3
25°	1826.4	1841.6	1856.2	1871.5	1867.0
27.5°	1763.6	1781.3	1801.6	1818.2	1811.8
30°	1703.3	1725.5	1745.2	1765.5	1756.0
32.5°	1643.6	1664.6	1688.0	1712.8	1702.0
35°	1583.3	1602.4	1629.7	1654.4	1646.2
37.5°	1516.7	1540.2	1571.3	1592.8	1587.2
40°	1454.5	1476.1	1513.5	1527.5	1526.2
42.5°	1391.7	1409.5	1448.8	1464.7	1462.1
45°	1314.9	1338.4	1383.4	1398.7	1399.9
47.5°	1247.0	1266.7	1314.9	1326.9	1329.5
50°	1168.9	1193.7	1241.9	1256.5	1258.4
52.5°	1092.1	1118.8	1168.3	1178.4	1180.4
55°	1014.1	1038.2	1092.1	1099.8	1096.6
57.5°	932.2	961.4	1010.9	1014.7	1017.9
60°	852.2	877.7	925.9	931.0	924.0
62.5°	765.3	791.3	840.9	842.1	836.4
65°	682.8	702.5	752.6	751.4	747.5
67.5°	596.5	620.6	657.5	658.7	655.6
70°	515.9	532.4	568.0	568.6	561.0
72.5°	429.0	446.8	475.3	471.5	469.6
75°	344.6	358.6	380.8	383.3	377.0
77.5°	267.2	277.3	293.8	291.9	284.9
80°	187.8	196.1	208.2	205.6	198.0
82.5°	119.9	125.0	132.6	129.5	126.3
85°	65.4	66.0	66.6	66.0	64.1
87.5°	24.1	24.8	24.8	24.1	22.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)