

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: P488840

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-3LO-50-120-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: P488840
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-12-4-INS-P12125-LD4-3LO-50-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

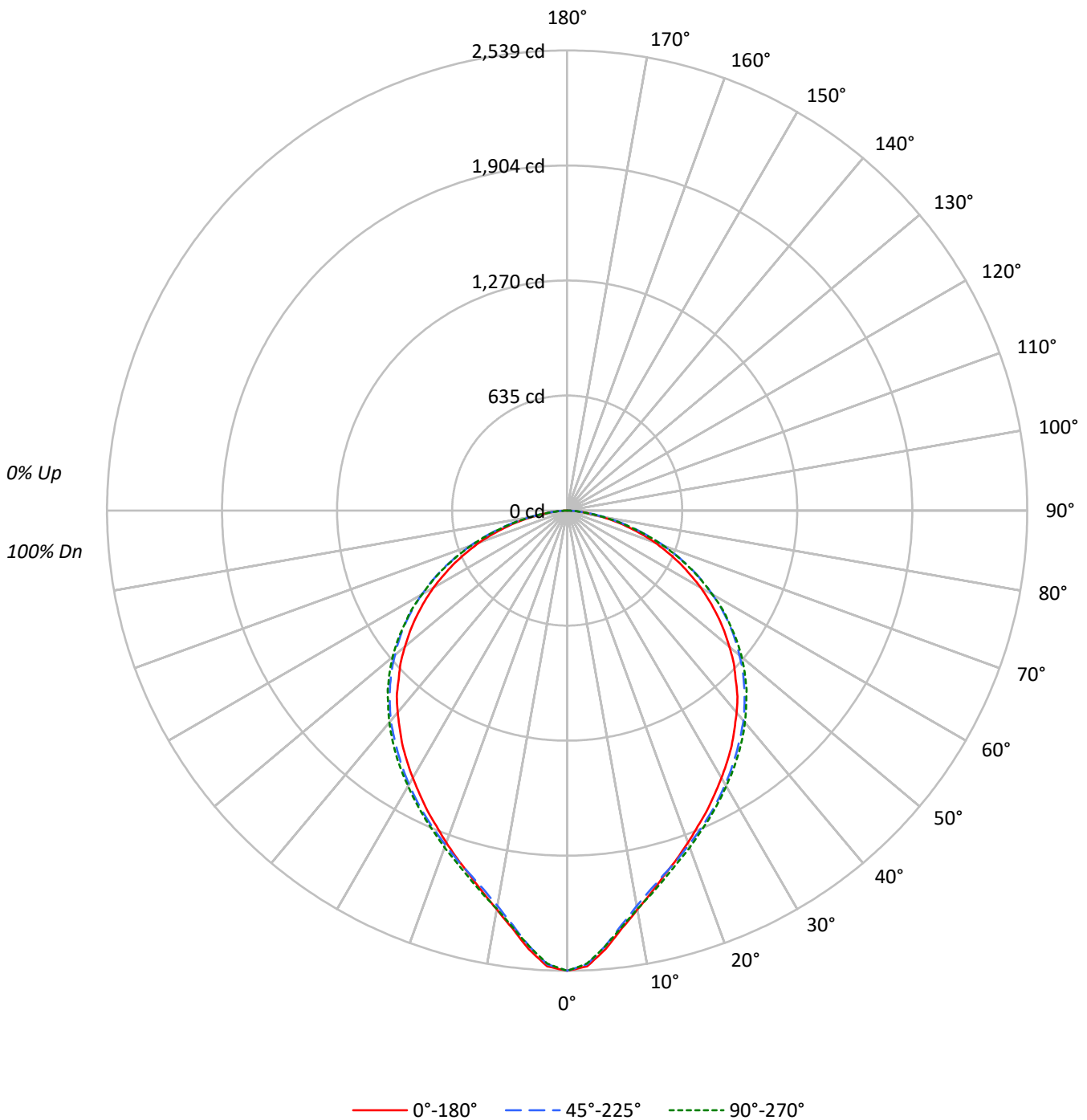
Lumens per Lamp: N/A
Luminaire Lumens: 5897.8 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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°	6833	6833	6833
5°	6561	6514	6514
10°	6106	6050	6097
15°	5794	5783	5840
20°	5581	5621	5665
25°	5422	5510	5542
30°	5291	5422	5455
35°	5200	5352	5407
40°	5108	5316	5360
45°	5003	5264	5326
50°	4893	5198	5267
55°	4756	5123	5144
60°	4585	4982	4972
65°	4347	4791	4759
70°	4058	4467	4413
75°	3582	3958	3919
80°	2910	3225	3067
85°	2019	2056	1979



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.4	3.8
10°-20°	587.7	10.0
20°-30°	854.6	14.5
30°-40°	1017.0	17.2
40°-50°	1056.0	17.9
50°-60°	956.6	16.2
60°-70°	721.9	12.2
70°-80°	393.3	6.7
80°-90°	86.4	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°	1666.6	28.3
0°-40°	2683.6	45.5
0°-60°	4696.2	79.6
0°-90°	5897.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5897.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2539	2539	2539	2539	2539	
5°	2429	2423	2412	2410	2412	225
15°	2080	2075	2076	2090	2096	587
25°	1826	1841	1856	1871	1867	841
35°	1583	1602	1629	1654	1646	990
45°	1315	1338	1383	1398	1400	1016
55°	1014	1038	1092	1100	1096	905
65°	683	702	752	751	747	675
75°	344	358	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°	2539.1	2539.1	2539.1	2539.1	2539.1
2.5°	2516.9	2514.3	2506.1	2502.9	2502.3
5°	2428.7	2423.0	2411.6	2410.3	2411.6
7.5°	2323.4	2317.0	2305.6	2310.1	2315.8
10°	2234.6	2218.7	2214.2	2220.6	2231.4
12.5°	2155.2	2142.5	2138.7	2155.2	2162.9
15°	2079.7	2074.6	2075.9	2089.9	2096.2
17.5°	2014.4	2011.2	2019.5	2030.3	2033.4
20°	1949.0	1955.4	1963.0	1974.4	1978.2
22.5°	1885.0	1897.0	1909.7	1924.9	1919.9
25°	1826.0	1841.2	1855.8	1871.0	1866.6
27.5°	1763.1	1780.9	1801.2	1817.7	1811.4
30°	1702.9	1725.1	1744.8	1765.0	1755.5
32.5°	1643.3	1664.2	1687.6	1712.4	1701.6
35°	1583.0	1602.0	1629.3	1654.0	1645.8
37.5°	1516.4	1539.8	1570.9	1592.5	1586.8
40°	1454.2	1475.8	1513.2	1527.1	1525.9
42.5°	1391.4	1409.1	1448.5	1464.3	1461.8
45°	1314.6	1338.1	1383.1	1398.4	1399.6
47.5°	1246.7	1266.4	1314.6	1326.6	1329.2
50°	1168.7	1193.4	1241.6	1256.2	1258.1
52.5°	1091.9	1118.5	1168.0	1178.2	1180.1
55°	1013.8	1037.9	1091.9	1099.5	1096.4
57.5°	932.0	961.2	1010.7	1014.5	1017.7
60°	852.0	877.4	925.7	930.7	923.8
62.5°	765.2	791.2	840.7	841.9	836.2
65°	682.7	702.3	752.4	751.2	747.4
67.5°	596.4	620.5	657.3	658.5	655.4
70°	515.8	532.3	567.8	568.5	560.9
72.5°	428.9	446.7	475.2	471.4	469.5
75°	344.5	358.5	380.7	383.2	376.9
77.5°	267.1	277.3	293.8	291.9	284.9
80°	187.8	196.0	208.1	205.6	197.9
82.5°	119.9	125.0	132.6	129.4	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)