

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: P488842

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-3STD-20-120-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: P488842
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-LD4-3STD-20-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

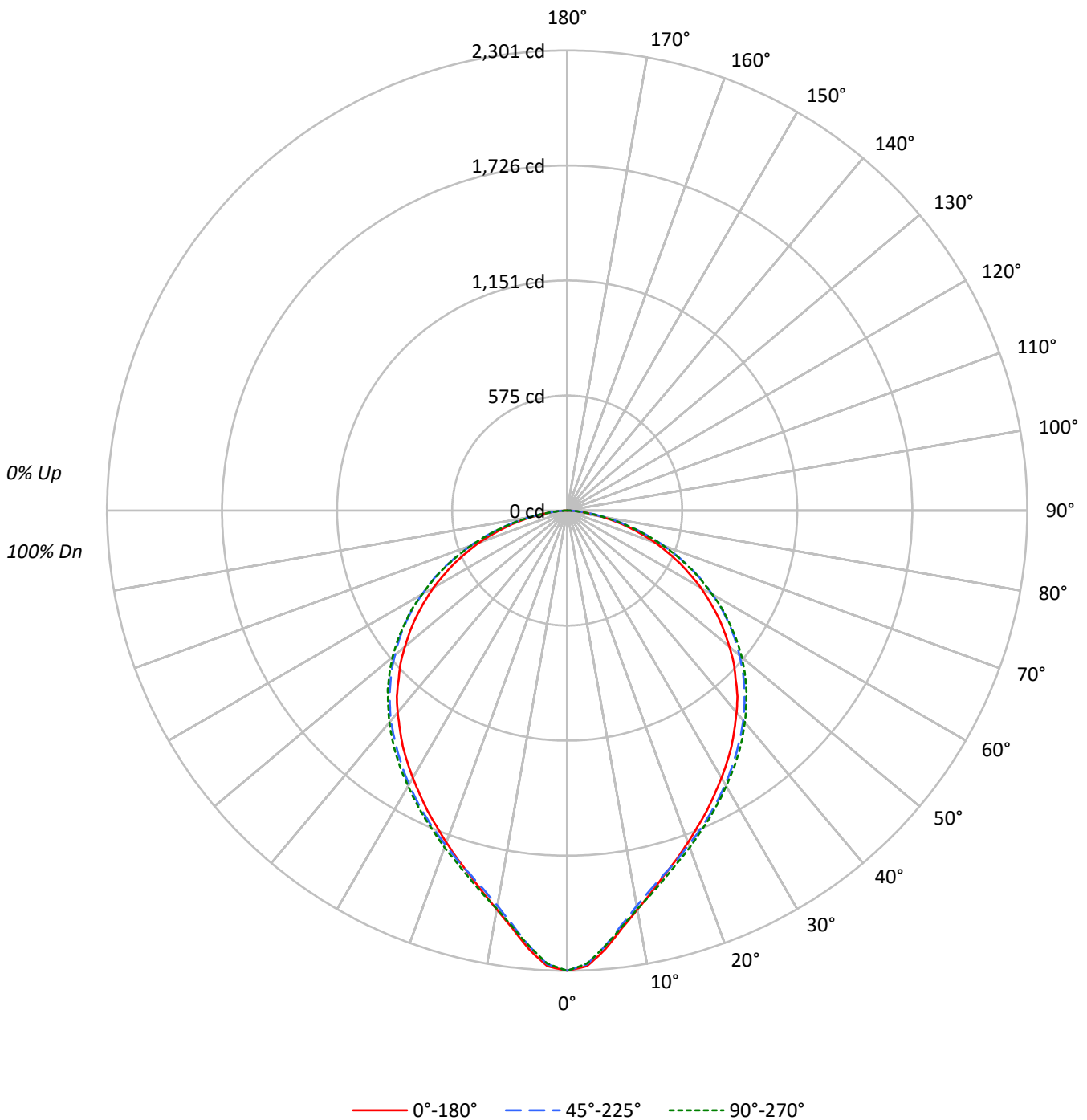
Lumens per Lamp: N/A
Luminaire Lumens: 5344.1 lumens
Efficiency: N/A
Efficacy: 53.5 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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°	6191	6191	6191
5°	5945	5903	5903
10°	5533	5482	5525
15°	5250	5240	5292
20°	5058	5094	5133
25°	4912	4993	5022
30°	4795	4913	4943
35°	4712	4850	4899
40°	4629	4816	4857
45°	4533	4770	4826
50°	4433	4710	4773
55°	4310	4642	4661
60°	4155	4514	4505
65°	3939	4341	4312
70°	3677	4048	3998
75°	3246	3587	3551
80°	2638	2923	2779
85°	1828	1865	1794



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.3	3.8
10°-20°	532.5	10.0
20°-30°	774.4	14.5
30°-40°	921.5	17.2
40°-50°	956.8	17.9
50°-60°	866.8	16.2
60°-70°	654.1	12.2
70°-80°	356.4	6.7
80°-90°	78.3	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°	1510.2	28.3
0°-40°	2431.7	45.5
0°-60°	4255.3	79.6
0°-90°	5344.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5344.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2301	2301	2301	2301	2301	
5°	2201	2196	2185	2184	2185	204
15°	1884	1880	1881	1894	1899	532
25°	1654	1668	1682	1695	1691	762
35°	1434	1452	1476	1499	1491	897
45°	1191	1212	1253	1267	1268	921
55°	919	940	989	996	993	820
65°	619	636	682	681	677	612
75°	312	325	345	347	342	333
85°	59	60	60	60	58	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2300.7	2300.7	2300.7	2300.7	2300.7
2.5°	2280.6	2278.3	2270.8	2267.9	2267.3
5°	2200.7	2195.5	2185.1	2184.0	2185.1
7.5°	2105.3	2099.5	2089.2	2093.2	2098.4
10°	2024.8	2010.4	2006.3	2012.1	2021.9
12.5°	1952.9	1941.4	1937.9	1952.9	1959.8
15°	1884.5	1879.9	1881.0	1893.7	1899.4
17.5°	1825.3	1822.4	1829.9	1839.7	1842.5
20°	1766.1	1771.8	1778.7	1789.1	1792.5
22.5°	1708.0	1718.9	1730.4	1744.2	1739.6
25°	1654.5	1668.3	1681.6	1695.4	1691.3
27.5°	1597.6	1613.7	1632.1	1647.1	1641.3
30°	1543.0	1563.1	1581.0	1599.3	1590.7
32.5°	1489.0	1507.9	1529.2	1551.6	1541.9
35°	1434.4	1451.6	1476.3	1498.8	1491.3
37.5°	1374.0	1395.3	1423.4	1443.0	1437.8
40°	1317.7	1337.2	1371.1	1383.8	1382.6
42.5°	1260.7	1276.9	1312.5	1326.8	1324.5
45°	1191.2	1212.4	1253.3	1267.1	1268.2
47.5°	1129.7	1147.5	1191.2	1202.1	1204.4
50°	1059.0	1081.4	1125.1	1138.3	1140.0
52.5°	989.4	1013.5	1058.4	1067.6	1069.3
55°	918.7	940.5	989.4	996.3	993.4
57.5°	844.5	871.0	915.8	919.2	922.1
60°	772.1	795.1	838.8	843.4	837.0
62.5°	693.3	716.9	761.7	762.9	757.7
65°	618.6	636.4	681.8	680.7	677.2
67.5°	540.4	562.2	595.6	596.7	593.9
70°	467.4	482.3	514.5	515.1	508.2
72.5°	388.6	404.7	430.6	427.1	425.4
75°	312.2	324.8	345.0	347.3	341.5
77.5°	242.0	251.2	266.2	264.5	258.1
80°	170.2	177.6	188.6	186.3	179.3
82.5°	108.6	113.3	120.2	117.3	114.4
85°	59.2	59.8	60.4	59.8	58.1
87.5°	21.8	22.4	22.4	21.8	20.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)