

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: P488762

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-1LO-30-120-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: P488762
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-LD4-1LO-30-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

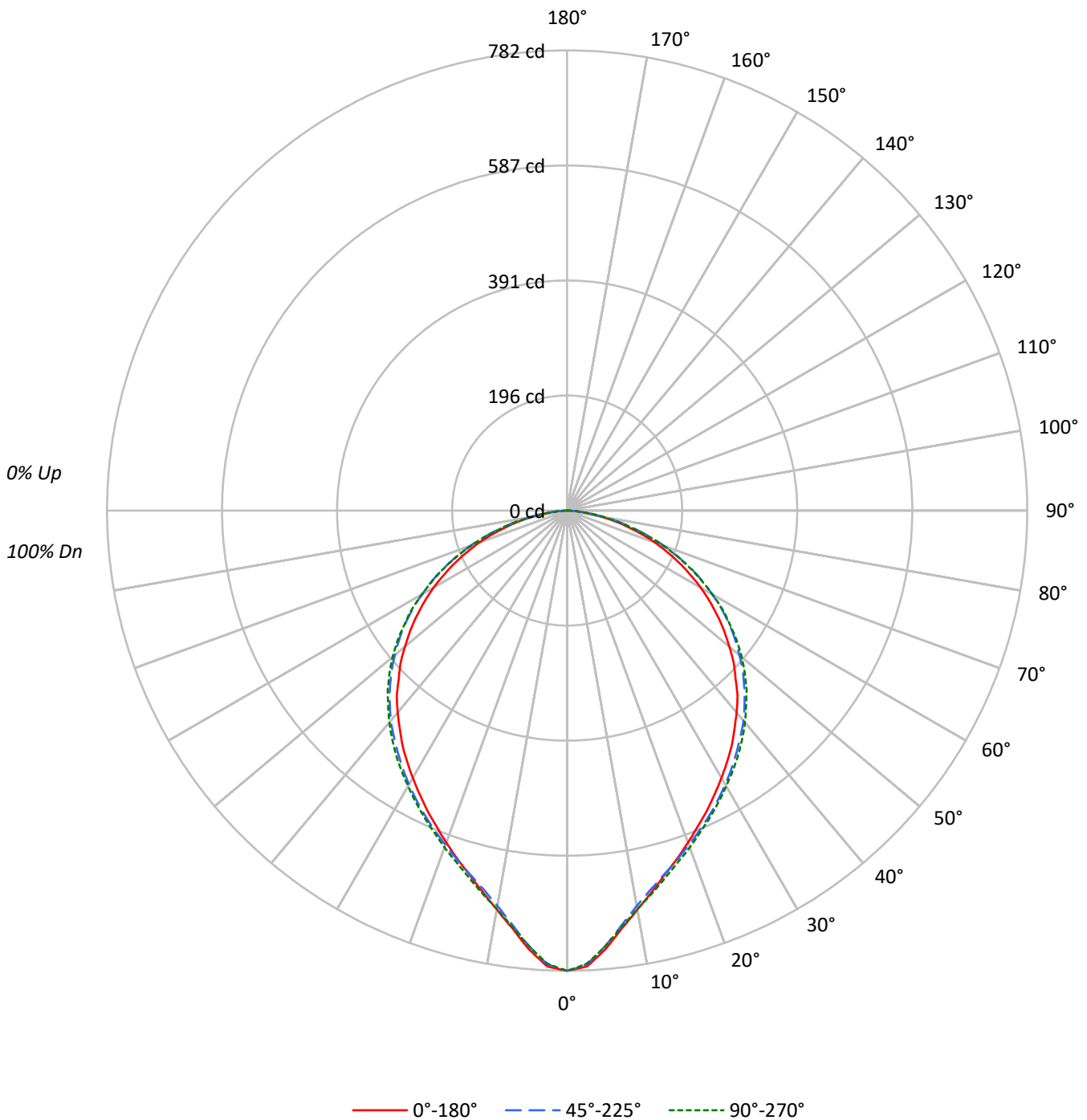
Lumens per Lamp: N/A
Luminaire Lumens: 1816.6 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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°	2105	2105	2105
5°	2021	2006	2006
10°	1881	1864	1878
15°	1785	1781	1799
20°	1719	1731	1745
25°	1670	1697	1707
30°	1630	1670	1680
35°	1602	1648	1665
40°	1573	1637	1651
45°	1541	1621	1641
50°	1507	1601	1622
55°	1465	1578	1584
60°	1412	1534	1531
65°	1339	1476	1466
70°	1250	1376	1360
75°	1103	1220	1207
80°	896	993	945
85°	621	633	608



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.1	3.8
10°-20°	181.0	10.0
20°-30°	263.2	14.5
30°-40°	313.2	17.2
40°-50°	325.2	17.9
50°-60°	294.7	16.2
60°-70°	222.4	12.2
70°-80°	121.2	6.7
80°-90°	26.6	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°	513.3	28.3
0°-40°	826.6	45.5
0°-60°	1446.5	79.6
0°-90°	1816.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1816.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	782	782	782	782	782	
5°	748	746	743	742	743	69
15°	641	639	639	644	646	181
25°	562	567	572	576	575	259
35°	488	493	502	510	507	305
45°	405	412	426	431	431	313
55°	312	320	336	339	338	279
65°	210	216	232	231	230	208
75°	106	110	117	118	116	113
85°	20	20	20	20	20	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	782.1	782.1	782.1	782.1	782.1
2.5°	775.2	774.5	771.9	770.9	770.7
5°	748.1	746.3	742.8	742.4	742.8
7.5°	715.6	713.7	710.2	711.5	713.3
10°	688.3	683.4	682.0	684.0	687.3
12.5°	663.8	659.9	658.8	663.8	666.2
15°	640.6	639.0	639.4	643.7	645.7
17.5°	620.5	619.5	622.0	625.3	626.3
20°	600.3	602.3	604.6	608.2	609.3
22.5°	580.6	584.3	588.2	592.9	591.3
25°	562.4	567.1	571.6	576.3	574.9
27.5°	543.1	548.5	554.8	559.9	557.9
30°	524.5	531.3	537.4	543.7	540.7
32.5°	506.1	512.6	519.8	527.4	524.1
35°	487.6	493.4	501.8	509.5	506.9
37.5°	467.1	474.3	483.9	490.5	488.8
40°	447.9	454.6	466.1	470.4	470.0
42.5°	428.6	434.0	446.1	451.0	450.2
45°	404.9	412.1	426.0	430.7	431.1
47.5°	384.0	390.1	404.9	408.6	409.4
50°	360.0	367.6	382.4	386.9	387.5
52.5°	336.3	344.5	359.8	362.9	363.5
55°	312.3	319.7	336.3	338.7	337.7
57.5°	287.1	296.1	311.3	312.5	313.5
60°	262.4	270.3	285.1	286.7	284.5
62.5°	235.7	243.7	258.9	259.3	257.6
65°	210.3	216.3	231.8	231.4	230.2
67.5°	183.7	191.1	202.5	202.8	201.9
70°	158.9	164.0	174.9	175.1	172.8
72.5°	132.1	137.6	146.4	145.2	144.6
75°	106.1	110.4	117.3	118.0	116.1
77.5°	82.3	85.4	90.5	89.9	87.7
80°	57.8	60.4	64.1	63.3	61.0
82.5°	36.9	38.5	40.8	39.9	38.9
85°	20.1	20.3	20.5	20.3	19.7
87.5°	7.4	7.6	7.6	7.4	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)