

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: P488787

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-2HI-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: P488787
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-LD4-2HI-30-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

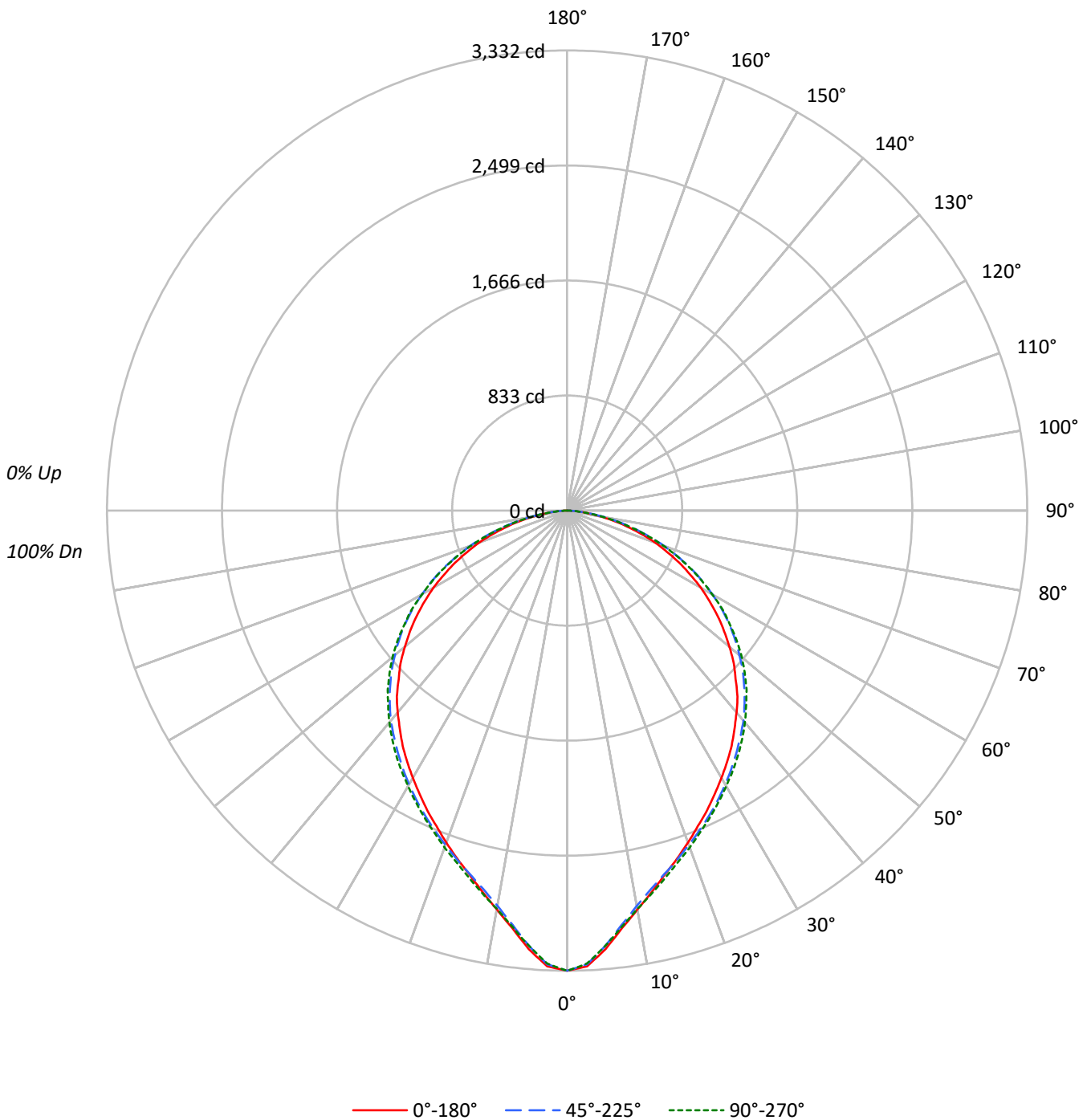
Lumens per Lamp: N/A
Luminaire Lumens: 7739.3 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 86.4
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°	8966	8966	8966
5°	8609	8548	8548
10°	8012	7940	8001
15°	7603	7589	7663
20°	7324	7377	7434
25°	7114	7231	7273
30°	6943	7114	7158
35°	6824	7023	7095
40°	6703	6975	7034
45°	6565	6907	6989
50°	6420	6821	6912
55°	6242	6722	6750
60°	6018	6537	6524
65°	5704	6287	6245
70°	5325	5862	5791
75°	4701	5194	5141
80°	3818	4232	4025
85°	2649	2699	2597



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.4	3.8
10°-20°	771.2	10.0
20°-30°	1121.4	14.5
30°-40°	1334.5	17.2
40°-50°	1385.7	17.9
50°-60°	1255.3	16.2
60°-70°	947.3	12.2
70°-80°	516.1	6.7
80°-90°	113.4	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°	2187.0	28.3
0°-40°	3521.5	45.5
0°-60°	6162.5	79.6
0°-90°	7739.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7739.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3332	3332	3332	3332	3332	
5°	3187	3180	3164	3163	3164	296
15°	2729	2722	2724	2742	2751	770
25°	2396	2416	2435	2455	2449	1104
35°	2077	2102	2138	2170	2160	1299
45°	1725	1756	1815	1835	1837	1333
55°	1330	1362	1433	1443	1439	1188
65°	896	922	987	986	981	886
75°	452	470	500	503	494	482
85°	86	87	87	87	84	108
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3331.9	3331.9	3331.9	3331.9	3331.9
2.5°	3302.7	3299.4	3288.6	3284.4	3283.6
5°	3187.0	3179.5	3164.5	3162.9	3164.5
7.5°	3048.8	3040.5	3025.5	3031.3	3038.8
10°	2932.3	2911.5	2905.6	2913.9	2928.1
12.5°	2828.2	2811.5	2806.5	2828.2	2838.2
15°	2729.1	2722.4	2724.1	2742.5	2750.7
17.5°	2643.4	2639.2	2650.0	2664.2	2668.4
20°	2557.6	2566.0	2575.9	2590.9	2595.9
22.5°	2473.5	2489.3	2506.0	2526.0	2519.3
25°	2396.1	2416.1	2435.2	2455.2	2449.4
27.5°	2313.7	2336.9	2363.6	2385.3	2376.9
30°	2234.5	2263.7	2289.5	2316.1	2303.7
32.5°	2156.3	2183.8	2214.6	2247.1	2232.9
35°	2077.2	2102.2	2138.0	2170.5	2159.7
37.5°	1989.8	2020.6	2061.4	2089.7	2082.2
40°	1908.2	1936.5	1985.6	2004.0	2002.3
42.5°	1825.8	1849.1	1900.7	1921.5	1918.2
45°	1725.1	1755.9	1815.0	1835.0	1836.6
47.5°	1636.0	1661.8	1725.1	1740.9	1744.2
50°	1533.6	1566.1	1629.3	1648.4	1651.0
52.5°	1432.8	1467.8	1532.7	1546.0	1548.6
55°	1330.4	1362.0	1432.8	1442.8	1438.7
57.5°	1223.0	1261.3	1326.3	1331.2	1335.4
60°	1118.1	1151.4	1214.7	1221.3	1212.2
62.5°	1004.1	1038.2	1103.2	1104.8	1097.3
65°	895.8	921.6	987.4	985.7	980.7
67.5°	782.6	814.2	862.5	864.2	860.1
70°	676.8	698.5	745.1	746.0	736.0
72.5°	562.8	586.1	623.5	618.6	616.1
75°	452.1	470.4	499.6	502.9	494.5
77.5°	350.5	363.8	385.5	383.0	373.8
80°	246.4	257.2	273.1	269.8	259.7
82.5°	157.3	164.0	174.0	169.8	165.7
85°	85.8	86.6	87.4	86.6	84.1
87.5°	31.6	32.5	32.5	31.6	29.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)