

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: P488775

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-1STD-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: P488775
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-LD4-1STD-30-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

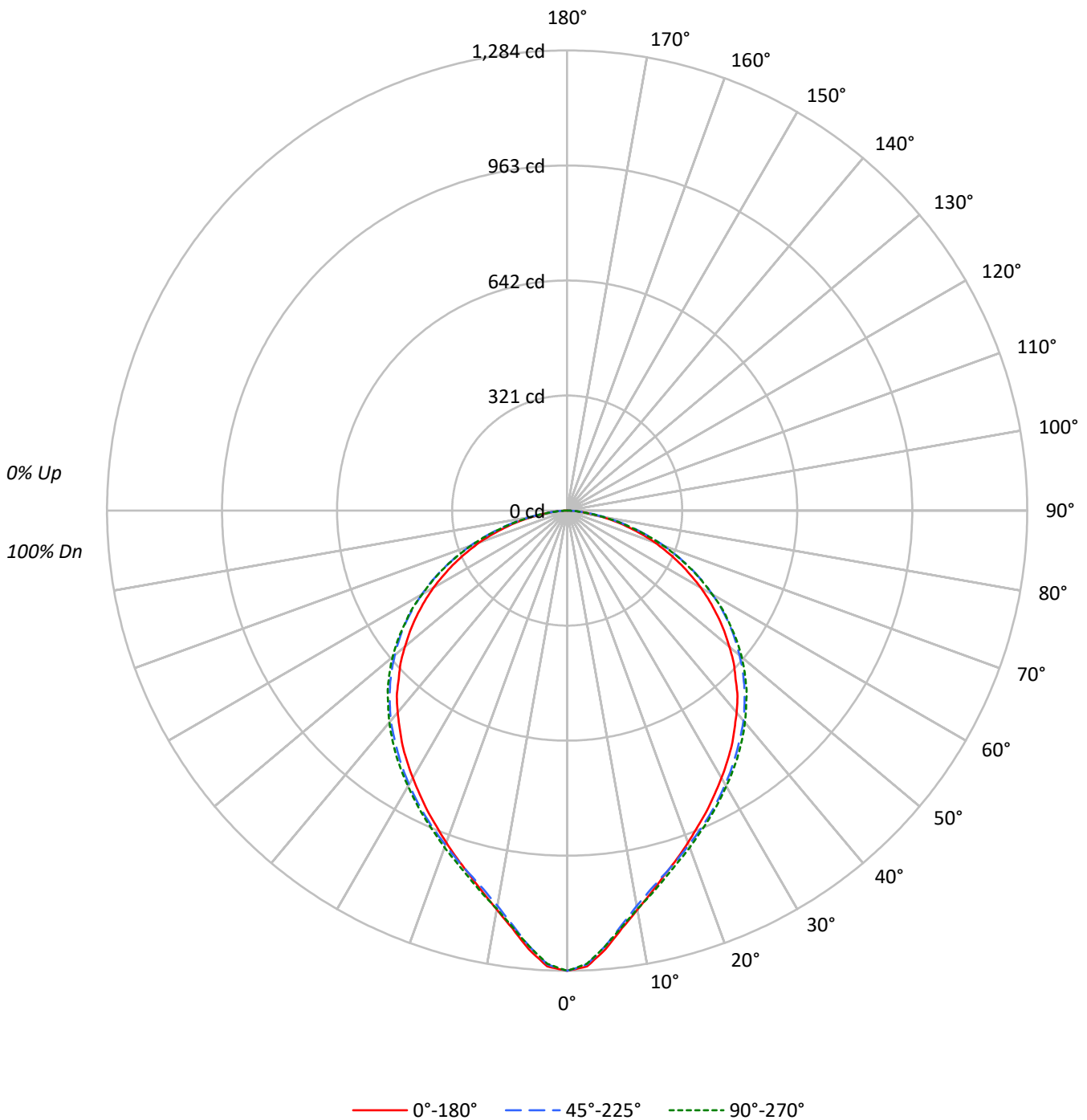
Lumens per Lamp: N/A
Luminaire Lumens: 2982.9 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	3456	3456	3456
5°	3318	3295	3295
10°	3088	3060	3084
15°	2930	2925	2954
20°	2823	2843	2865
25°	2742	2787	2803
30°	2676	2742	2759
35°	2630	2707	2734
40°	2584	2688	2711
45°	2530	2662	2694
50°	2475	2629	2664
55°	2406	2591	2601
60°	2319	2520	2514
65°	2199	2423	2407
70°	2053	2260	2232
75°	1811	2001	1982
80°	1472	1632	1551
85°	1022	1041	1000



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.5	3.8
10°-20°	297.2	10.0
20°-30°	432.2	14.5
30°-40°	514.3	17.2
40°-50°	534.1	17.9
50°-60°	483.8	16.2
60°-70°	365.1	12.2
70°-80°	198.9	6.7
80°-90°	43.7	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°	842.9	28.3
0°-40°	1357.3	45.5
0°-60°	2375.2	79.6
0°-90°	2982.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2982.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1284	1284	1284	1284	1284	
5°	1228	1226	1220	1219	1220	114
15°	1052	1049	1050	1057	1060	297
25°	924	931	939	946	944	426
35°	801	810	824	837	832	501
45°	665	677	700	707	708	514
55°	513	525	552	556	554	458
65°	345	355	381	380	378	341
75°	174	181	192	194	191	186
85°	33	33	34	33	32	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1284.2	1284.2	1284.2	1284.2	1284.2
2.5°	1272.9	1271.7	1267.5	1265.9	1265.6
5°	1228.4	1225.5	1219.7	1219.1	1219.7
7.5°	1175.1	1171.9	1166.1	1168.3	1171.2
10°	1130.2	1122.1	1119.9	1123.1	1128.5
12.5°	1090.0	1083.6	1081.7	1090.0	1093.9
15°	1051.8	1049.3	1049.9	1057.0	1060.2
17.5°	1018.8	1017.2	1021.4	1026.8	1028.4
20°	985.8	989.0	992.8	998.6	1000.5
22.5°	953.4	959.4	965.9	973.6	971.0
25°	923.5	931.2	938.6	946.3	944.1
27.5°	891.7	900.7	911.0	919.3	916.1
30°	861.2	872.5	882.4	892.7	887.9
32.5°	831.1	841.7	853.6	866.1	860.6
35°	800.6	810.2	824.0	836.6	832.4
37.5°	766.9	778.8	794.5	805.4	802.5
40°	735.5	746.4	765.3	772.4	771.7
42.5°	703.7	712.7	732.6	740.6	739.3
45°	664.9	676.7	699.5	707.2	707.9
47.5°	630.5	640.5	664.9	671.0	672.2
50°	591.1	603.6	628.0	635.3	636.3
52.5°	552.2	565.7	590.7	595.9	596.9
55°	512.8	525.0	552.2	556.1	554.5
57.5°	471.4	486.1	511.2	513.1	514.7
60°	430.9	443.8	468.2	470.7	467.2
62.5°	387.0	400.1	425.2	425.8	422.9
65°	345.3	355.2	380.6	379.9	378.0
67.5°	301.6	313.8	332.4	333.1	331.5
70°	260.9	269.2	287.2	287.5	283.7
72.5°	216.9	225.9	240.3	238.4	237.5
75°	174.2	181.3	192.5	193.8	190.6
77.5°	135.1	140.2	148.6	147.6	144.1
80°	95.0	99.1	105.3	104.0	100.1
82.5°	60.6	63.2	67.1	65.5	63.9
85°	33.1	33.4	33.7	33.4	32.4
87.5°	12.2	12.5	12.5	12.2	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)