

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: P488769

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-1LO-50-120-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: P488769
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-50-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

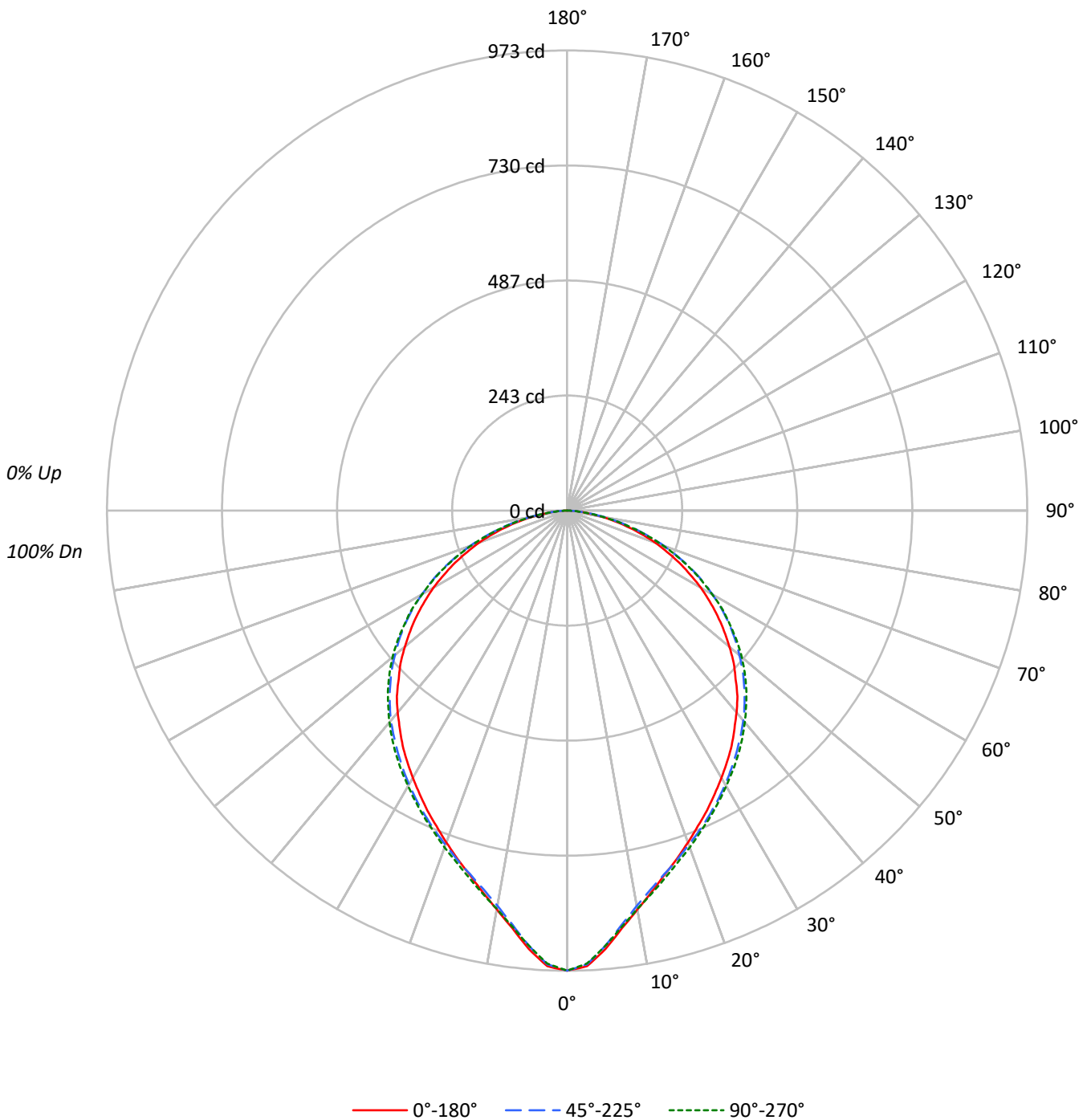
Lumens per Lamp: N/A
Luminaire Lumens: 2259.7 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	2618	2618	2618
5°	2514	2496	2496
10°	2340	2318	2336
15°	2220	2216	2238
20°	2139	2154	2170
25°	2077	2111	2124
30°	2027	2077	2090
35°	1992	2051	2072
40°	1957	2037	2054
45°	1917	2017	2041
50°	1875	1991	2018
55°	1822	1962	1971
60°	1757	1909	1905
65°	1666	1836	1823
70°	1555	1712	1691
75°	1372	1517	1501
80°	1114	1235	1175
85°	772	787	756



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.0	3.8
10°-20°	225.2	10.0
20°-30°	327.4	14.5
30°-40°	389.6	17.2
40°-50°	404.6	17.9
50°-60°	366.5	16.2
60°-70°	276.6	12.2
70°-80°	150.7	6.7
80°-90°	33.1	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°	638.6	28.3
0°-40°	1028.2	45.5
0°-60°	1799.3	79.6
0°-90°	2259.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2259.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	973	973	973	973	973	
5°	930	928	924	924	924	86
15°	797	795	795	801	803	225
25°	700	705	711	717	715	322
35°	606	614	624	634	631	379
45°	504	513	530	536	536	389
55°	388	398	418	421	420	347
65°	262	269	288	288	286	259
75°	132	137	146	147	144	141
85°	25	25	26	25	24	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	972.8	972.8	972.8	972.8	972.8
2.5°	964.3	963.4	960.2	959.0	958.7
5°	930.5	928.3	924.0	923.5	924.0
7.5°	890.2	887.7	883.4	885.1	887.3
10°	856.2	850.1	848.4	850.8	854.9
12.5°	825.8	820.9	819.4	825.8	828.7
15°	796.8	794.9	795.4	800.7	803.2
17.5°	771.8	770.6	773.7	777.9	779.1
20°	746.8	749.2	752.1	756.5	757.9
22.5°	722.2	726.8	731.7	737.5	735.6
25°	699.6	705.4	711.0	716.9	715.2
27.5°	675.5	682.3	690.1	696.4	694.0
30°	652.4	660.9	668.5	676.3	672.6
32.5°	629.6	637.6	646.6	656.1	652.0
35°	606.5	613.8	624.3	633.7	630.6
37.5°	581.0	590.0	601.9	610.1	608.0
40°	557.2	565.4	579.8	585.1	584.6
42.5°	533.1	539.9	555.0	561.0	560.1
45°	503.7	512.7	529.9	535.8	536.2
47.5°	477.7	485.2	503.7	508.3	509.3
50°	447.8	457.3	475.7	481.3	482.0
52.5°	418.3	428.6	447.5	451.4	452.1
55°	388.4	397.7	418.3	421.3	420.1
57.5°	357.1	368.3	387.2	388.7	389.9
60°	326.5	336.2	354.7	356.6	353.9
62.5°	293.2	303.1	322.1	322.6	320.4
65°	261.6	269.1	288.3	287.8	286.3
67.5°	228.5	237.7	251.8	252.3	251.1
70°	197.6	203.9	217.6	217.8	214.9
72.5°	164.3	171.1	182.1	180.6	179.9
75°	132.0	137.3	145.9	146.8	144.4
77.5°	102.3	106.2	112.6	111.8	109.1
80°	71.9	75.1	79.7	78.8	75.8
82.5°	45.9	47.9	50.8	49.6	48.4
85°	25.0	25.3	25.5	25.3	24.5
87.5°	9.2	9.5	9.5	9.2	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)