

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: P488771

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-1STD-20-120-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: P488771
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-20-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

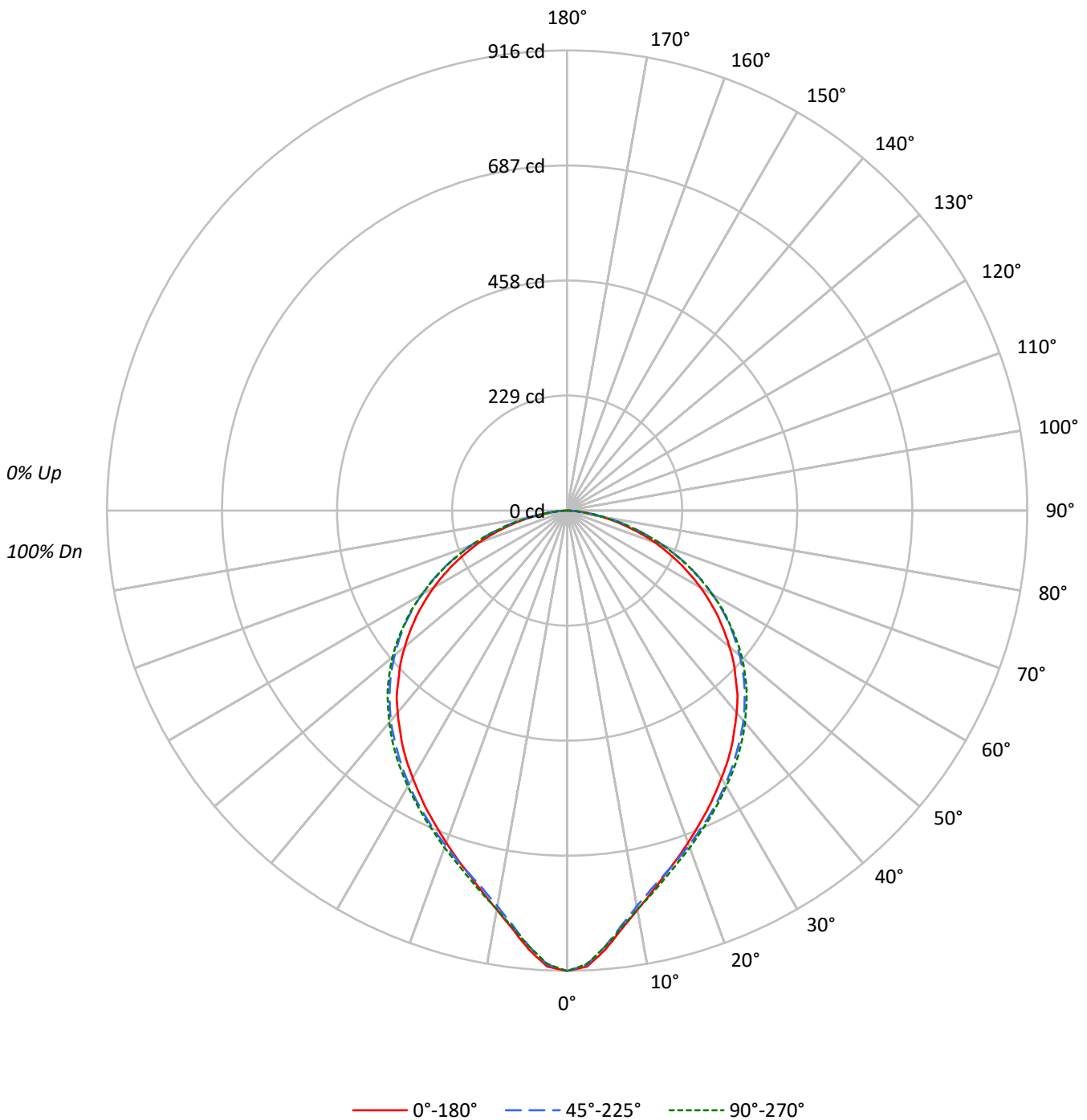
Lumens per Lamp: N/A
Luminaire Lumens: 2128.9 lumens
Efficiency: N/A
Efficacy: 63.9 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	2466	2466	2466
5°	2368	2351	2351
10°	2204	2184	2201
15°	2091	2087	2108
20°	2015	2029	2045
25°	1957	1989	2001
30°	1910	1957	1969
35°	1877	1932	1952
40°	1844	1919	1935
45°	1806	1900	1923
50°	1766	1876	1901
55°	1717	1849	1856
60°	1655	1798	1795
65°	1569	1729	1718
70°	1465	1613	1593
75°	1293	1429	1414
80°	1051	1164	1106
85°	729	741	713



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.0	3.8
10°-20°	212.1	10.0
20°-30°	308.5	14.5
30°-40°	367.1	17.2
40°-50°	381.2	17.9
50°-60°	345.3	16.2
60°-70°	260.6	12.2
70°-80°	142.0	6.7
80°-90°	31.2	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°	601.6	28.3
0°-40°	968.7	45.5
0°-60°	1695.2	79.6
0°-90°	2128.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2128.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	916	916	916	916	916	
5°	877	875	870	870	870	81
15°	751	749	749	754	757	212
25°	659	665	670	675	674	304
35°	571	578	588	597	594	357
45°	474	483	499	505	505	367
55°	366	375	394	397	396	327
65°	246	254	272	271	270	244
75°	124	129	137	138	136	132
85°	24	24	24	24	23	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	916.5	916.5	916.5	916.5	916.5
2.5°	908.5	907.6	904.6	903.5	903.2
5°	876.7	874.6	870.5	870.0	870.5
7.5°	838.7	836.4	832.3	833.8	835.9
10°	806.6	800.9	799.3	801.6	805.4
12.5°	778.0	773.4	772.0	778.0	780.7
15°	750.7	748.9	749.3	754.4	756.7
17.5°	727.1	726.0	729.0	732.9	734.0
20°	703.5	705.8	708.6	712.7	714.1
22.5°	680.4	684.8	689.3	694.8	693.0
25°	659.1	664.6	669.9	675.4	673.8
27.5°	636.4	642.8	650.2	656.1	653.8
30°	614.7	622.7	629.8	637.1	633.7
32.5°	593.2	600.7	609.2	618.1	614.2
35°	571.4	578.3	588.1	597.1	594.1
37.5°	547.4	555.8	567.0	574.8	572.8
40°	524.9	532.7	546.2	551.2	550.8
42.5°	502.2	508.7	522.8	528.6	527.7
45°	474.5	483.0	499.3	504.8	505.2
47.5°	450.0	457.1	474.5	478.9	479.8
50°	421.8	430.8	448.2	453.4	454.1
52.5°	394.1	403.7	421.6	425.3	426.0
55°	366.0	374.7	394.1	396.9	395.7
57.5°	336.4	347.0	364.8	366.2	367.3
60°	307.6	316.7	334.1	336.0	333.5
62.5°	276.2	285.6	303.5	303.9	301.8
65°	246.4	253.5	271.6	271.2	269.8
67.5°	215.3	224.0	237.3	237.7	236.6
70°	186.2	192.1	205.0	205.2	202.5
72.5°	154.8	161.2	171.5	170.2	169.5
75°	124.4	129.4	137.4	138.3	136.0
77.5°	96.4	100.1	106.0	105.4	102.8
80°	67.8	70.8	75.1	74.2	71.4
82.5°	43.3	45.1	47.9	46.7	45.6
85°	23.6	23.8	24.0	23.8	23.1
87.5°	8.7	8.9	8.9	8.7	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)