

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: P488767

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-1LO-40-120-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: P488767
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-40-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

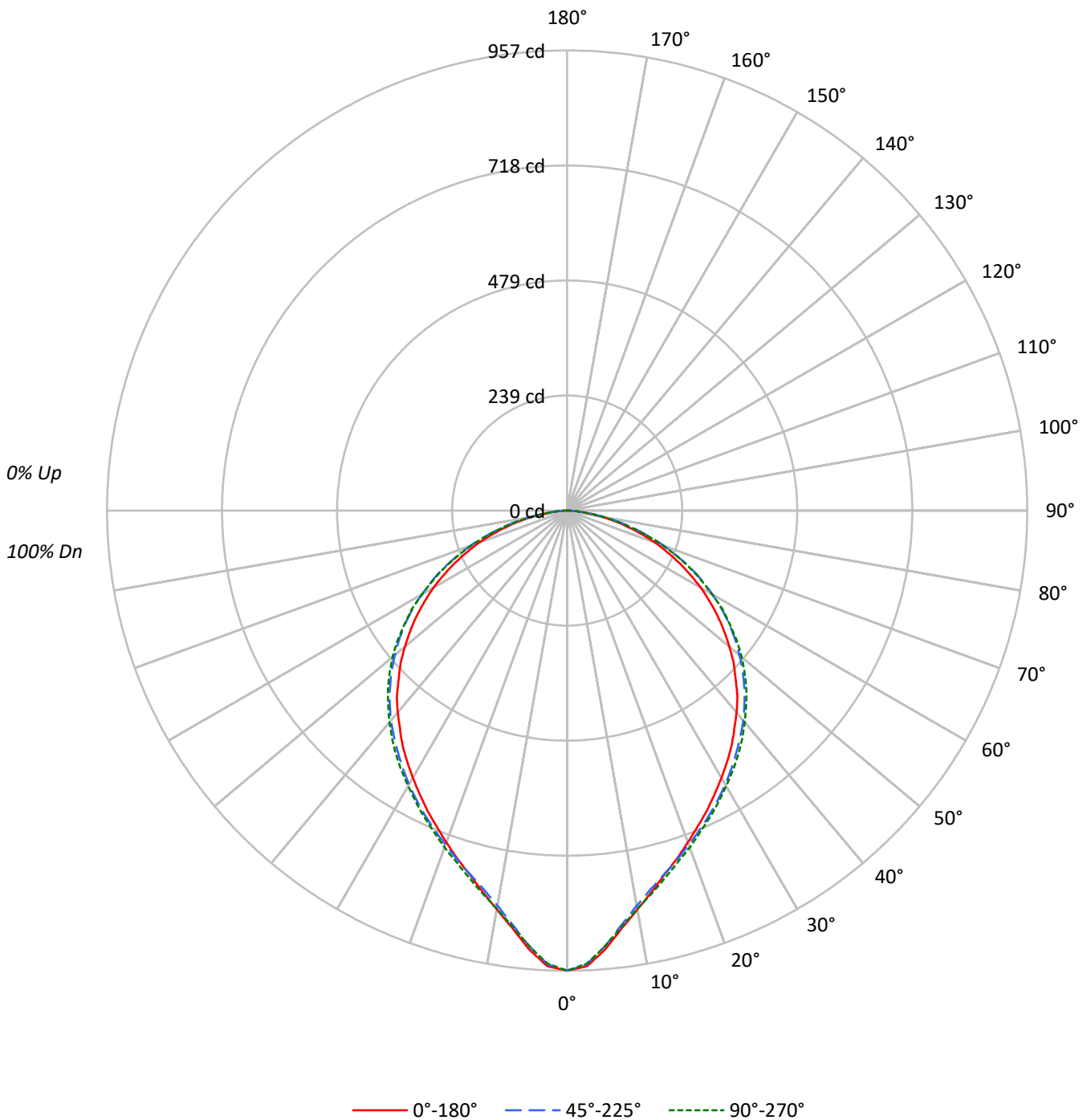
Lumens per Lamp: N/A
Luminaire Lumens: 2222.0 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	2574	2574	2574
5°	2472	2454	2454
10°	2300	2279	2297
15°	2183	2179	2200
20°	2103	2118	2134
25°	2042	2076	2088
30°	1994	2042	2055
35°	1959	2016	2037
40°	1925	2003	2020
45°	1885	1983	2007
50°	1843	1958	1984
55°	1792	1930	1938
60°	1728	1877	1873
65°	1638	1805	1793
70°	1529	1683	1662
75°	1350	1491	1476
80°	1096	1215	1156
85°	760	775	744



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.5	3.8
10°-20°	221.4	10.0
20°-30°	322.0	14.5
30°-40°	383.1	17.2
40°-50°	397.8	17.9
50°-60°	360.4	16.2
60°-70°	272.0	12.2
70°-80°	148.2	6.7
80°-90°	32.6	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°	627.9	28.3
0°-40°	1011.1	45.5
0°-60°	1769.3	79.6
0°-90°	2222.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2222.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	957	957	957	957	957	
5°	915	913	909	908	909	85
15°	784	782	782	787	790	221
25°	688	694	699	705	703	317
35°	596	604	614	623	620	373
45°	495	504	521	527	527	383
55°	382	391	411	414	413	341
65°	257	265	284	283	282	254
75°	130	135	143	144	142	138
85°	25	25	25	25	24	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	956.6	956.6	956.6	956.6	956.6
2.5°	948.2	947.3	944.2	943.0	942.7
5°	915.0	912.9	908.6	908.1	908.6
7.5°	875.3	872.9	868.6	870.3	872.5
10°	841.9	835.9	834.2	836.6	840.7
12.5°	812.0	807.2	805.8	812.0	814.9
15°	783.5	781.6	782.1	787.4	789.8
17.5°	758.9	757.7	760.8	764.9	766.1
20°	734.3	736.7	739.6	743.9	745.3
22.5°	710.2	714.7	719.5	725.2	723.3
25°	687.9	693.7	699.2	704.9	703.2
27.5°	664.3	671.0	678.6	684.8	682.4
30°	641.6	649.9	657.3	665.0	661.4
32.5°	619.1	627.0	635.8	645.1	641.1
35°	596.4	603.6	613.8	623.2	620.1
37.5°	571.3	580.1	591.8	600.0	597.8
40°	547.9	556.0	570.1	575.4	574.9
42.5°	524.2	530.9	545.7	551.7	550.7
45°	495.3	504.1	521.1	526.8	527.3
47.5°	469.7	477.1	495.3	499.8	500.8
50°	440.3	449.6	467.8	473.3	474.0
52.5°	411.4	421.4	440.1	443.9	444.6
55°	382.0	391.0	411.4	414.2	413.1
57.5°	351.1	362.1	380.8	382.2	383.4
60°	321.0	330.6	348.7	350.7	348.0
62.5°	288.3	298.1	316.7	317.2	315.0
65°	257.2	264.6	283.5	283.0	281.6
67.5°	224.7	233.8	247.6	248.1	246.9
70°	194.3	200.5	213.9	214.2	211.3
72.5°	161.6	168.3	179.0	177.6	176.9
75°	129.8	135.1	143.4	144.4	142.0
77.5°	100.6	104.5	110.7	110.0	107.3
80°	70.7	73.9	78.4	77.5	74.6
82.5°	45.2	47.1	50.0	48.8	47.6
85°	24.6	24.8	25.1	24.8	24.1
87.5°	9.1	9.3	9.3	9.1	8.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)