

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: P488746

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-1HI-20-120-EDD-90**

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: P488746
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-LD4-1HI-20-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

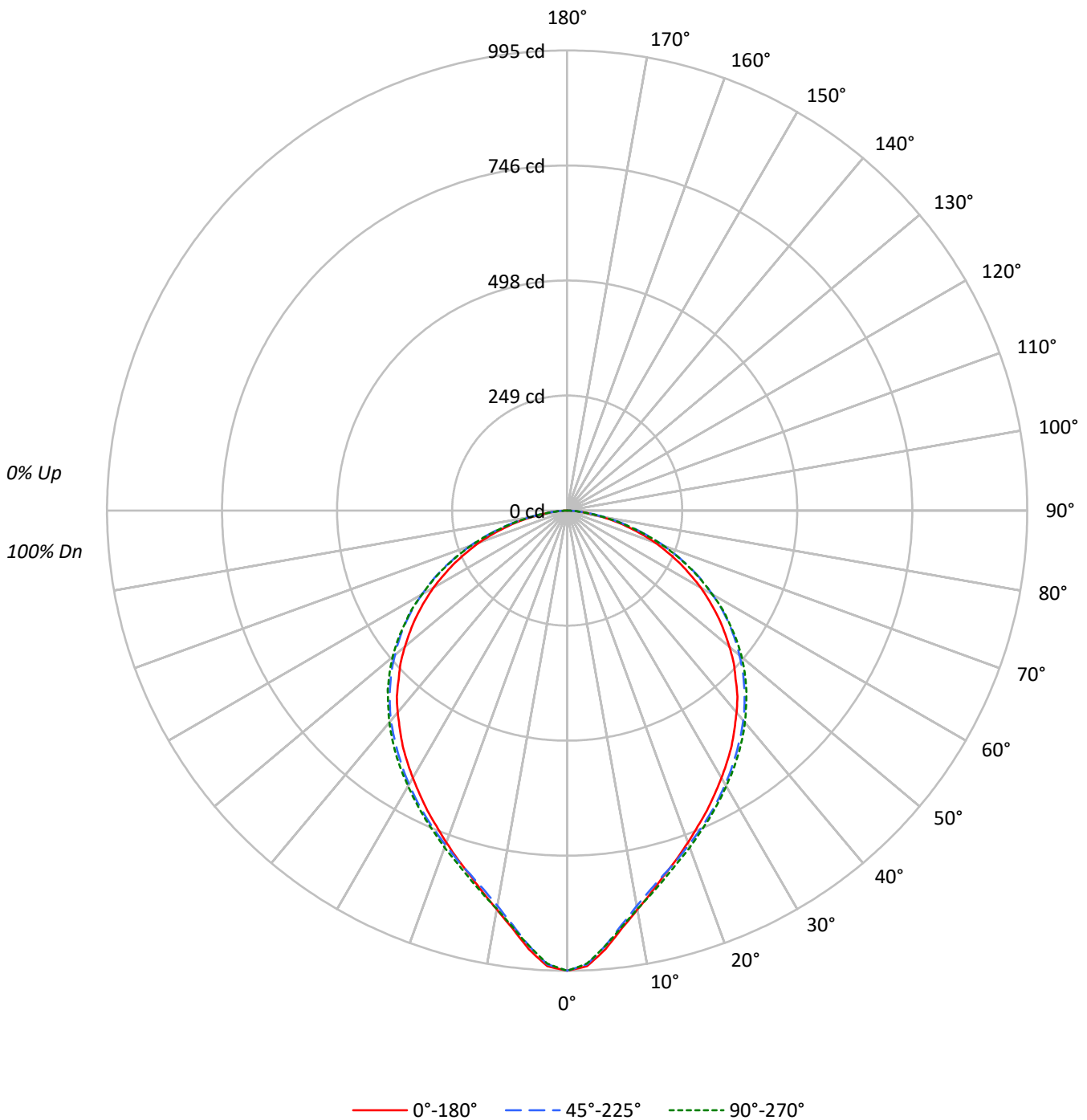
Lumens per Lamp: N/A
Luminaire Lumens: 2311.0 lumens
Efficiency: N/A
Efficacy: 53.5 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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°	2677	2677	2677
5°	2571	2552	2552
10°	2393	2371	2389
15°	2270	2266	2288
20°	2187	2203	2220
25°	2124	2159	2172
30°	2073	2124	2137
35°	2038	2097	2119
40°	2002	2083	2100
45°	1960	2063	2087
50°	1917	2037	2064
55°	1864	2007	2016
60°	1797	1952	1948
65°	1703	1877	1864
70°	1590	1751	1729
75°	1404	1551	1536
80°	1141	1263	1203
85°	790	806	775



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.9	3.8
10°-20°	230.3	10.0
20°-30°	334.9	14.5
30°-40°	398.5	17.2
40°-50°	413.8	17.9
50°-60°	374.8	16.2
60°-70°	282.9	12.2
70°-80°	154.1	6.7
80°-90°	33.9	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°	653.1	28.3
0°-40°	1051.5	45.5
0°-60°	1840.1	79.6
0°-90°	2311.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2311.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	995	995	995	995	995	
5°	952	949	945	944	945	88
15°	815	813	813	819	821	230
25°	716	722	727	733	731	330
35°	620	628	638	648	645	388
45°	515	524	542	548	548	398
55°	397	407	428	431	430	355
65°	268	275	295	294	293	264
75°	135	140	149	150	148	144
85°	26	26	26	26	25	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	994.9	994.9	994.9	994.9	994.9
2.5°	986.2	985.2	982.0	980.7	980.5
5°	951.7	949.4	944.9	944.5	944.9
7.5°	910.4	907.9	903.4	905.2	907.4
10°	875.6	869.4	867.6	870.1	874.3
12.5°	844.5	839.5	838.0	844.5	847.5
15°	814.9	812.9	813.4	818.9	821.4
17.5°	789.3	788.1	791.3	795.5	796.8
20°	763.7	766.2	769.2	773.7	775.1
22.5°	738.6	743.3	748.3	754.3	752.3
25°	715.5	721.5	727.2	733.1	731.4
27.5°	690.9	697.8	705.8	712.3	709.8
30°	667.2	676.0	683.7	691.6	687.9
32.5°	643.9	652.1	661.3	671.0	666.8
35°	620.3	627.7	638.4	648.1	644.9
37.5°	594.2	603.4	615.5	624.0	621.8
40°	569.8	578.3	592.9	598.4	597.9
42.5°	545.2	552.2	567.6	573.8	572.8
45°	515.1	524.3	542.0	547.9	548.4
47.5°	488.5	496.2	515.1	519.8	520.8
50°	457.9	467.6	486.5	492.2	493.0
52.5°	427.8	438.3	457.7	461.7	462.4
55°	397.3	406.7	427.8	430.8	429.6
57.5°	365.2	376.6	396.0	397.5	398.8
60°	333.9	343.8	362.7	364.7	362.0
62.5°	299.8	310.0	329.4	329.9	327.7
65°	267.5	275.2	294.8	294.3	292.8
67.5°	233.7	243.1	257.6	258.0	256.8
70°	202.1	208.6	222.5	222.8	219.8
72.5°	168.1	175.0	186.2	184.7	184.0
75°	135.0	140.5	149.2	150.2	147.7
77.5°	104.7	108.6	115.1	114.4	111.6
80°	73.6	76.8	81.5	80.6	77.6
82.5°	47.0	49.0	52.0	50.7	49.5
85°	25.6	25.8	26.1	25.8	25.1
87.5°	9.4	9.7	9.7	9.4	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)