

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: P488764

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-1LO-35-120-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: P488764  
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-35-120-EDD-90  
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

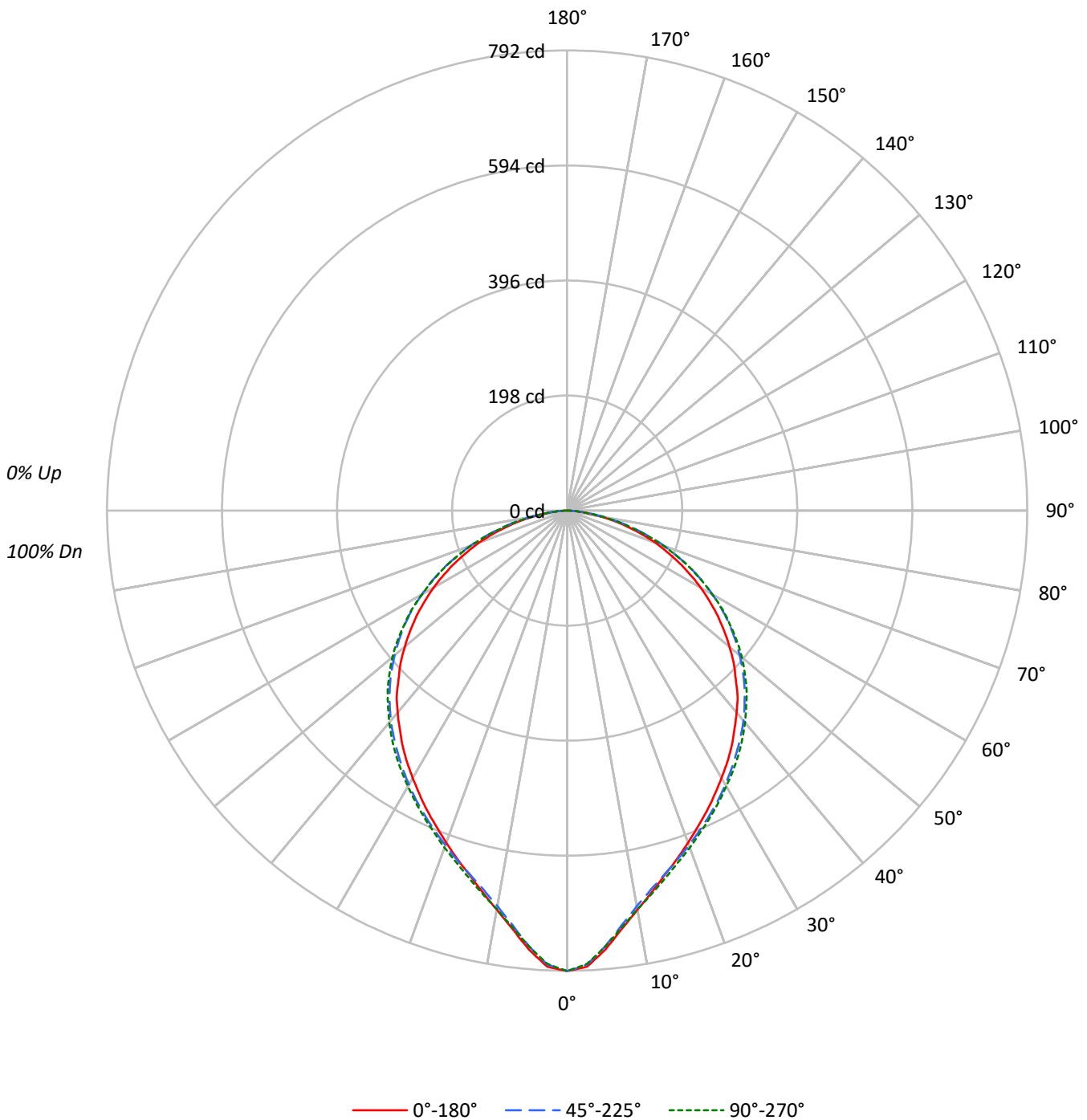
Lumens per Lamp: N/A  
Luminaire Lumens: 1840.8 lumens  
Efficiency: N/A  
Efficacy: 78.7 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

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°	2133	2133	2133
5°	2048	2033	2033
10°	1906	1888	1903
15°	1808	1805	1823
20°	1742	1755	1768
25°	1692	1720	1730
30°	1652	1692	1702
35°	1623	1670	1688
40°	1594	1659	1673
45°	1561	1643	1662
50°	1527	1622	1644
55°	1484	1599	1605
60°	1431	1555	1552
65°	1357	1495	1486
70°	1267	1394	1378
75°	1118	1235	1223
80°	908	1007	958
85°	630	642	618



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.0	3.8
10°-20°	183.4	10.0
20°-30°	266.7	14.5
30°-40°	317.4	17.2
40°-50°	329.6	17.9
50°-60°	298.6	16.2
60°-70°	225.3	12.2
70°-80°	122.8	6.7
80°-90°	27.0	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°	520.2	28.3
0°-40°	837.6	45.5
0°-60°	1465.8	79.6
0°-90°	1840.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1840.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	792	792	792	792	792	
5°	758	756	753	752	753	70
15°	649	648	648	652	654	183
25°	570	575	579	584	583	263
35°	494	500	508	516	514	309
45°	410	418	432	436	437	317
55°	316	324	341	343	342	283
65°	213	219	235	234	233	211
75°	108	112	119	120	118	115
85°	20	21	21	21	20	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	792.5	792.5	792.5	792.5	792.5
2.5°	785.6	784.8	782.2	781.2	781.0
5°	758.0	756.3	752.7	752.3	752.7
7.5°	725.2	723.2	719.6	721.0	722.8
10°	697.4	692.5	691.1	693.1	696.4
12.5°	672.7	668.7	667.5	672.7	675.1
15°	649.1	647.5	647.9	652.3	654.3
17.5°	628.7	627.7	630.3	633.7	634.7
20°	608.3	610.3	612.7	616.3	617.4
22.5°	588.3	592.1	596.1	600.8	599.2
25°	569.9	574.7	579.2	584.0	582.6
27.5°	550.3	555.8	562.2	567.3	565.4
30°	531.5	538.4	544.6	550.9	547.9
32.5°	512.9	519.4	526.7	534.5	531.1
35°	494.1	500.0	508.5	516.3	513.7
37.5°	473.3	480.6	490.3	497.0	495.3
40°	453.9	460.6	472.3	476.6	476.2
42.5°	434.3	439.8	452.1	457.0	456.2
45°	410.3	417.6	431.7	436.5	436.8
47.5°	389.1	395.3	410.3	414.1	414.9
50°	364.8	372.5	387.5	392.1	392.7
52.5°	340.8	349.1	364.6	367.7	368.3
55°	316.4	324.0	340.8	343.2	342.2
57.5°	290.9	300.0	315.5	316.6	317.6
60°	265.9	273.9	288.9	290.5	288.3
62.5°	238.8	246.9	262.4	262.8	261.0
65°	213.1	219.2	234.8	234.5	233.3
67.5°	186.1	193.7	205.2	205.5	204.6
70°	161.0	166.1	177.2	177.4	175.1
72.5°	133.9	139.4	148.3	147.1	146.5
75°	107.5	111.9	118.8	119.6	117.6
77.5°	83.4	86.5	91.7	91.1	88.9
80°	58.6	61.2	65.0	64.2	61.8
82.5°	37.4	39.0	41.4	40.4	39.4
85°	20.4	20.6	20.8	20.6	20.0
87.5°	7.5	7.7	7.7	7.5	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)