

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: P488468

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-1HI-50-120-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: P488468  
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-12-2-INS-P12125-LD4-1HI-50-120-EDD-90  
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

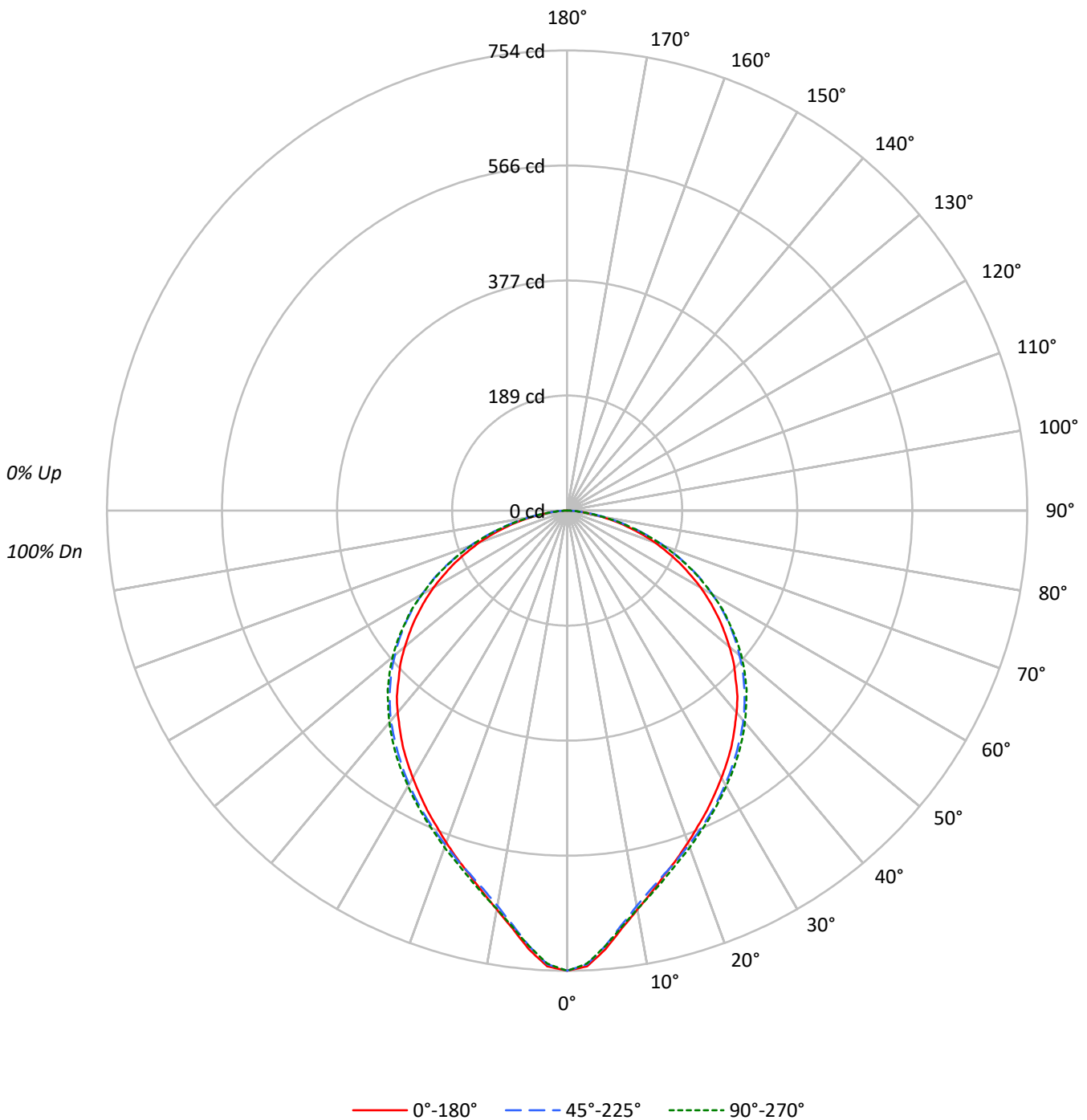
Lumens per Lamp: N/A  
Luminaire Lumens: 1751.3 lumens  
Efficiency: N/A  
Efficacy: 81.1 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.23  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.6  
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	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					100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70					70			
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59					59			
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51					51			
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44					44			
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38					38			
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30					30			
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27					27			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4058	4058	4058
5°	3896	3869	3869
10°	3626	3593	3621
15°	3441	3434	3468
20°	3315	3338	3364
25°	3220	3273	3292
30°	3142	3220	3240
35°	3088	3179	3211
40°	3034	3157	3183
45°	2971	3126	3163
50°	2905	3087	3128
55°	2825	3042	3055
60°	2723	2959	2953
65°	2581	2845	2826
70°	2411	2653	2620
75°	2127	2350	2327
80°	1729	1915	1822
85°	1198	1223	1173



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.6	3.8
10°-20°	174.5	10.0
20°-30°	253.8	14.5
30°-40°	302.0	17.2
40°-50°	313.5	17.9
50°-60°	284.1	16.2
60°-70°	214.4	12.2
70°-80°	116.8	6.7
80°-90°	25.7	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°	494.9	28.3
0°-40°	796.9	45.5
0°-60°	1394.5	79.6
0°-90°	1751.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1751.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	754	754	754	754	754	
5°	721	720	716	716	716	67
15°	618	616	616	621	622	174
25°	542	547	551	556	554	250
35°	470	476	484	491	489	294
45°	390	397	411	415	416	302
55°	301	308	324	326	326	269
65°	203	209	223	223	222	200
75°	102	106	113	114	112	109
85°	19	20	20	20	19	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	754.0	754.0	754.0	754.0	754.0
2.5°	747.4	746.6	744.2	743.2	743.0
5°	721.2	719.5	716.1	715.7	716.1
7.5°	689.9	688.0	684.6	686.0	687.6
10°	663.5	658.8	657.5	659.4	662.6
12.5°	640.0	636.2	635.1	640.0	642.2
15°	617.6	616.0	616.4	620.6	622.5
17.5°	598.2	597.2	599.7	602.9	603.8
20°	578.8	580.6	582.9	586.3	587.4
22.5°	559.7	563.3	567.1	571.6	570.1
25°	542.2	546.7	551.1	555.6	554.3
27.5°	523.6	528.8	534.9	539.8	537.9
30°	505.6	512.2	518.1	524.1	521.3
32.5°	488.0	494.2	501.1	508.5	505.3
35°	470.0	475.7	483.8	491.2	488.7
37.5°	450.3	457.2	466.5	472.9	471.2
40°	431.8	438.2	449.3	453.5	453.1
42.5°	413.1	418.4	430.1	434.8	434.1
45°	390.4	397.3	410.7	415.2	415.6
47.5°	370.2	376.0	390.4	393.9	394.7
50°	347.0	354.4	368.7	373.0	373.6
52.5°	324.2	332.1	346.8	349.8	350.4
55°	301.1	308.2	324.2	326.5	325.6
57.5°	276.8	285.4	300.1	301.2	302.2
60°	253.0	260.6	274.9	276.4	274.3
62.5°	227.2	234.9	249.6	250.0	248.3
65°	202.7	208.6	223.4	223.1	221.9
67.5°	177.1	184.2	195.2	195.5	194.6
70°	153.2	158.1	168.6	168.8	166.5
72.5°	127.4	132.6	141.1	140.0	139.4
75°	102.3	106.4	113.0	113.8	111.9
77.5°	79.3	82.3	87.2	86.7	84.6
80°	55.8	58.2	61.8	61.0	58.8
82.5°	35.6	37.1	39.4	38.4	37.5
85°	19.4	19.6	19.8	19.6	19.0
87.5°	7.2	7.4	7.4	7.2	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)