

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: P488466

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-1HI-40-120-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: P488466  
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-40-120-EDD-90  
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

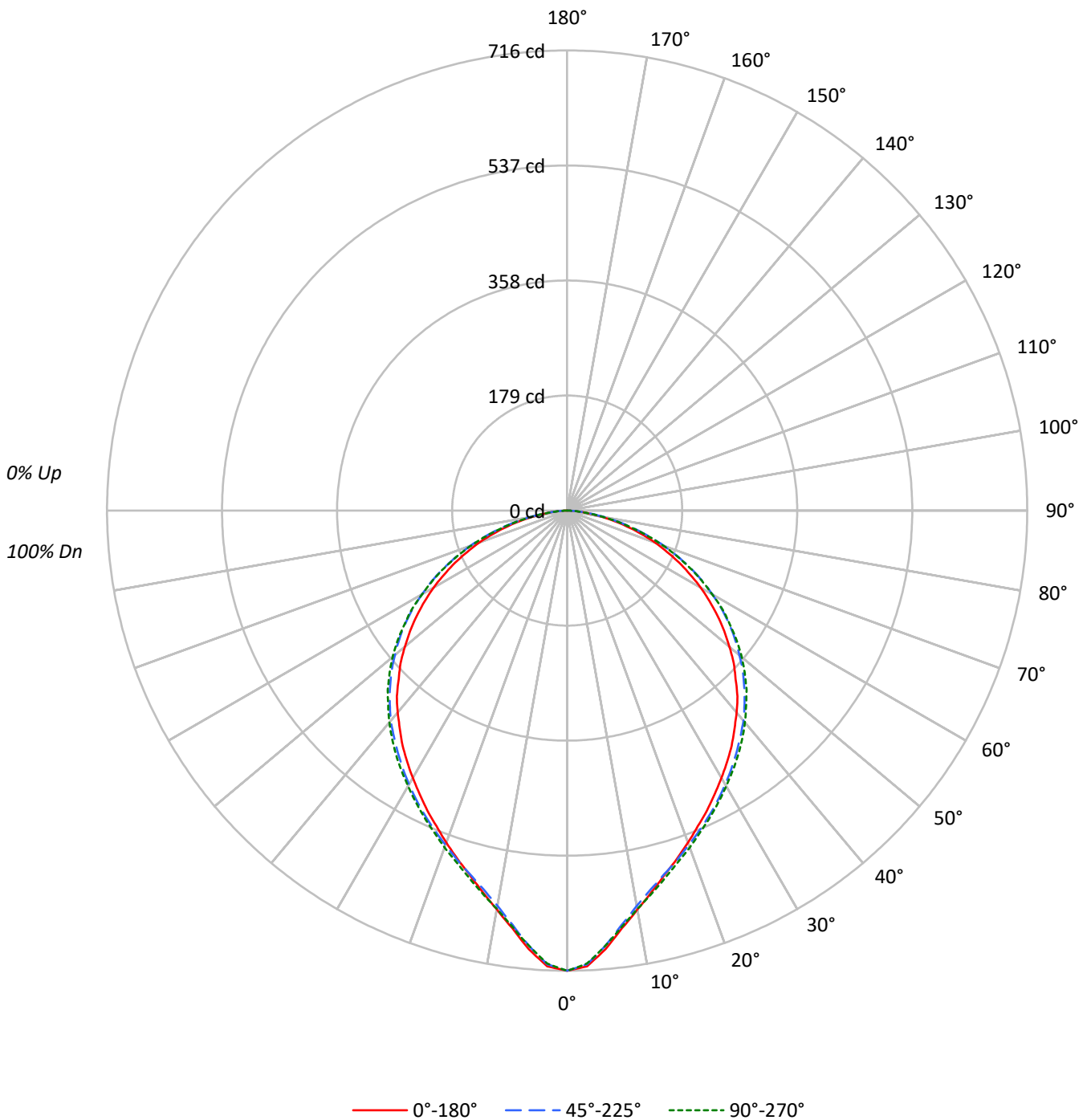
Lumens per Lamp: N/A  
Luminaire Lumens: 1663.1 lumens  
Efficiency: N/A  
Efficacy: 77.0 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.23  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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°	3853	3853	3853
5°	3700	3674	3674
10°	3443	3412	3439
15°	3268	3262	3293
20°	3148	3170	3195
25°	3058	3108	3126
30°	2984	3058	3076
35°	2933	3018	3049
40°	2881	2998	3023
45°	2821	2968	3004
50°	2759	2931	2971
55°	2683	2889	2901
60°	2587	2809	2804
65°	2451	2702	2683
70°	2288	2519	2489
75°	2019	2233	2210
80°	1643	1819	1729
85°	1136	1161	1118



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.3	3.8
10°-20°	165.7	10.0
20°-30°	241.0	14.5
30°-40°	286.8	17.2
40°-50°	297.8	17.9
50°-60°	269.8	16.2
60°-70°	203.6	12.2
70°-80°	110.9	6.7
80°-90°	24.4	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°	470.0	28.3
0°-40°	756.7	45.5
0°-60°	1324.3	79.6
0°-90°	1663.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1663.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	716	716	716	716	716	
5°	685	683	680	680	680	64
15°	586	585	585	589	591	166
25°	515	519	523	528	526	237
35°	446	452	459	466	464	279
45°	371	377	390	394	395	287
55°	286	293	308	310	309	255
65°	192	198	212	212	211	190
75°	97	101	107	108	106	103
85°	18	19	19	19	18	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	716.0	716.0	716.0	716.0	716.0
2.5°	709.7	709.0	706.7	705.8	705.6
5°	684.9	683.2	680.0	679.7	680.0
7.5°	655.2	653.4	650.2	651.4	653.0
10°	630.1	625.6	624.4	626.2	629.2
12.5°	607.7	604.2	603.1	607.7	609.9
15°	586.5	585.0	585.4	589.3	591.1
17.5°	568.0	567.1	569.5	572.5	573.4
20°	549.6	551.4	553.5	556.8	557.8
22.5°	531.5	534.9	538.5	542.8	541.4
25°	514.9	519.2	523.3	527.6	526.4
27.5°	497.2	502.2	507.9	512.6	510.8
30°	480.2	486.4	492.0	497.7	495.0
32.5°	463.4	469.3	475.9	482.9	479.8
35°	446.4	451.7	459.4	466.4	464.1
37.5°	427.6	434.2	443.0	449.1	447.5
40°	410.1	416.1	426.7	430.6	430.3
42.5°	392.3	397.4	408.4	412.9	412.2
45°	370.7	377.3	390.0	394.3	394.7
47.5°	351.6	357.1	370.7	374.1	374.8
50°	329.5	336.5	350.1	354.2	354.8
52.5°	307.9	315.4	329.4	332.2	332.8
55°	285.9	292.7	307.9	310.1	309.2
57.5°	262.8	271.0	285.0	286.1	287.0
60°	240.3	247.4	261.0	262.5	260.5
62.5°	215.8	223.1	237.1	237.4	235.8
65°	192.5	198.0	212.2	211.8	210.7
67.5°	168.2	175.0	185.4	185.7	184.8
70°	145.4	150.1	160.1	160.3	158.2
72.5°	120.9	125.9	134.0	132.9	132.4
75°	97.1	101.1	107.4	108.1	106.3
77.5°	75.3	78.2	82.8	82.3	80.3
80°	53.0	55.3	58.7	58.0	55.8
82.5°	33.8	35.3	37.4	36.5	35.6
85°	18.4	18.6	18.8	18.6	18.1
87.5°	6.8	7.0	7.0	6.8	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)