

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: P488465

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-1HI-35-120-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: P488465  
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-35-120-EDD  
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

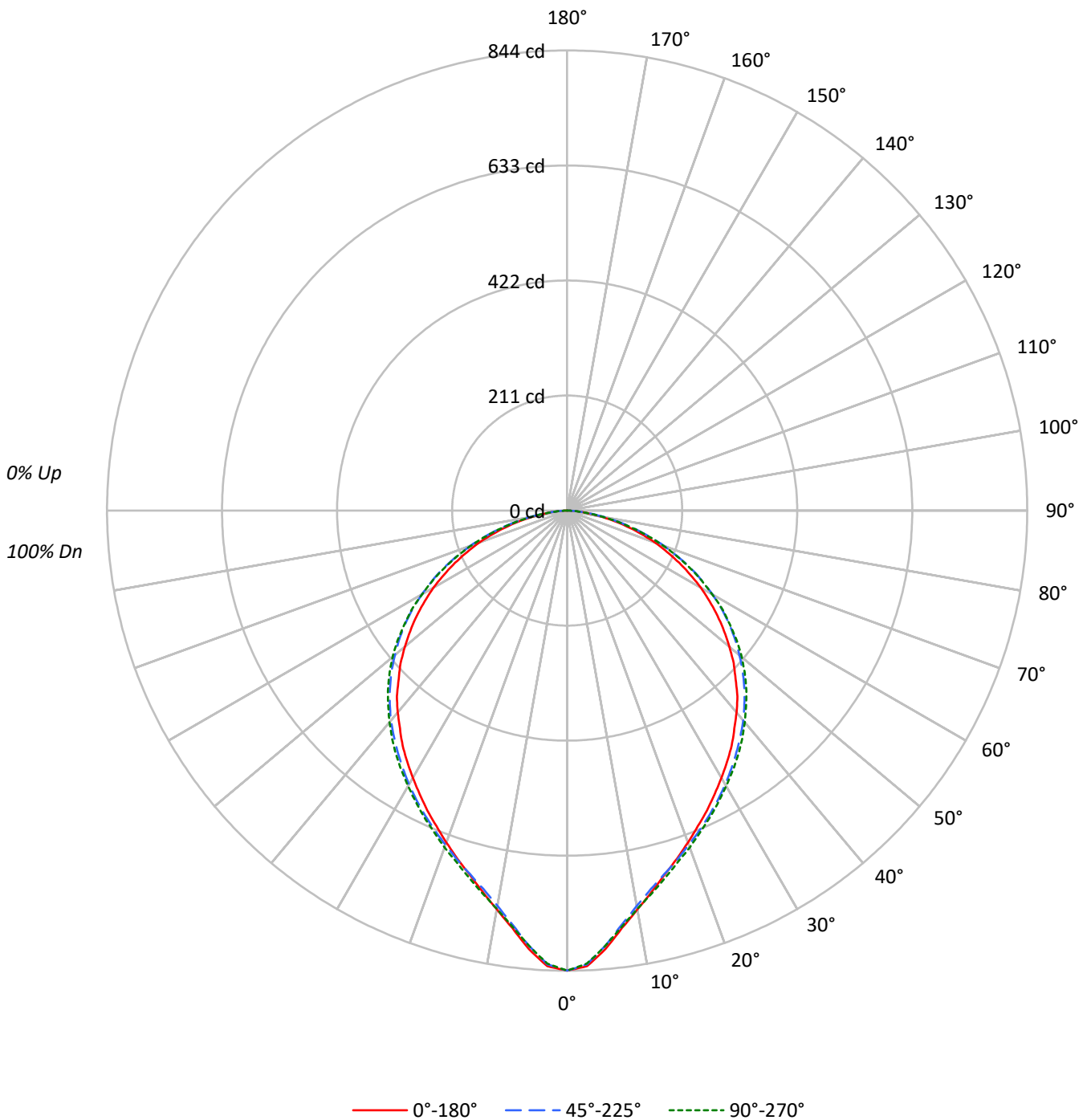
Lumens per Lamp: N/A  
Luminaire Lumens: 1959.8 lumens  
Efficiency: N/A  
Efficacy: 90.7 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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	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°	4541	4541	4541
5°	4360	4329	4329
10°	4058	4021	4052
15°	3851	3843	3881
20°	3710	3736	3765
25°	3603	3662	3684
30°	3516	3603	3626
35°	3456	3557	3593
40°	3395	3532	3562
45°	3325	3498	3540
50°	3251	3455	3501
55°	3161	3404	3418
60°	3047	3311	3305
65°	2888	3184	3162
70°	2697	2969	2933
75°	2381	2630	2603
80°	1934	2145	2039
85°	1340	1365	1315



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.6	3.8
10°-20°	195.3	10.0
20°-30°	284.0	14.5
30°-40°	337.9	17.2
40°-50°	350.9	17.9
50°-60°	317.9	16.2
60°-70°	239.9	12.2
70°-80°	130.7	6.7
80°-90°	28.7	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°	553.8	28.3
0°-40°	891.7	45.5
0°-60°	1560.5	79.6
0°-90°	1959.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1959.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	844	844	844	844	844	
5°	807	805	801	801	801	75
15°	691	689	690	694	697	195
25°	607	612	617	622	620	280
35°	526	532	541	550	547	329
45°	437	445	460	465	465	338
55°	337	345	363	365	364	301
65°	227	233	250	250	248	224
75°	114	119	126	127	125	122
85°	22	22	22	22	21	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	843.7	843.7	843.7	843.7	843.7
2.5°	836.3	835.5	832.8	831.7	831.5
5°	807.0	805.1	801.3	800.9	801.3
7.5°	772.0	769.9	766.1	767.6	769.5
10°	742.5	737.3	735.8	737.9	741.5
12.5°	716.2	712.0	710.7	716.2	718.7
15°	691.1	689.4	689.8	694.5	696.6
17.5°	669.4	668.3	671.1	674.6	675.7
20°	647.7	649.8	652.3	656.1	657.3
22.5°	626.4	630.4	634.6	639.6	638.0
25°	606.8	611.8	616.7	621.7	620.3
27.5°	585.9	591.8	598.5	604.0	601.9
30°	565.8	573.2	579.8	586.5	583.4
32.5°	546.0	553.0	560.8	569.0	565.4
35°	526.0	532.3	541.4	549.6	546.9
37.5°	503.9	511.7	522.0	529.2	527.3
40°	483.2	490.4	502.8	507.5	507.0
42.5°	462.3	468.3	481.3	486.6	485.7
45°	436.8	444.6	459.6	464.7	465.1
47.5°	414.3	420.8	436.8	440.8	441.7
50°	388.3	396.6	412.6	417.4	418.1
52.5°	362.8	371.7	388.1	391.5	392.1
55°	336.9	344.9	362.8	365.4	364.3
57.5°	309.7	319.4	335.9	337.1	338.2
60°	283.1	291.6	307.6	309.3	307.0
62.5°	254.3	262.9	279.3	279.8	277.9
65°	226.8	233.4	250.0	249.6	248.3
67.5°	198.2	206.2	218.4	218.8	217.8
70°	171.4	176.9	188.7	188.9	186.4
72.5°	142.5	148.4	157.9	156.6	156.0
75°	114.5	119.1	126.5	127.3	125.2
77.5°	88.8	92.1	97.6	97.0	94.7
80°	62.4	65.1	69.2	68.3	65.8
82.5°	39.8	41.5	44.1	43.0	42.0
85°	21.7	21.9	22.1	21.9	21.3
87.5°	8.0	8.2	8.2	8.0	7.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)