

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: P488528

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-2STD-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: P488528  
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-LD4-2STD-50-120-EDD-90  
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

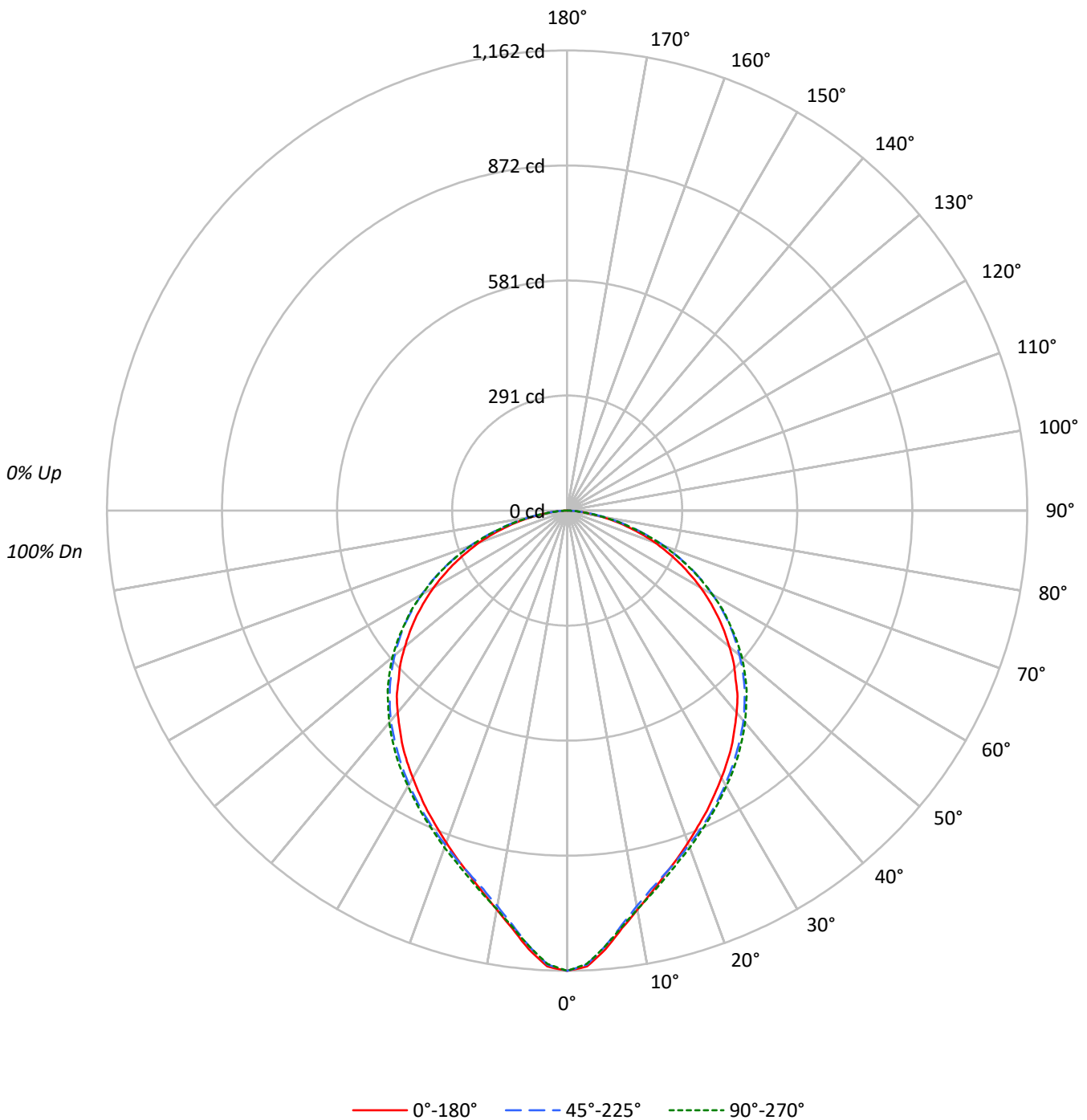
Lumens per Lamp: N/A  
Luminaire Lumens: 2699.9 lumens  
Efficiency: N/A  
Efficacy: 81.1 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.3  
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°	6255	6255	6255
5°	6007	5964	5964
10°	5590	5539	5582
15°	5305	5295	5347
20°	5110	5147	5187
25°	4964	5045	5074
30°	4844	4964	4995
35°	4761	4901	4950
40°	4677	4867	4907
45°	4580	4819	4877
50°	4479	4759	4823
55°	4355	4690	4709
60°	4199	4561	4552
65°	3980	4387	4357
70°	3715	4090	4041
75°	3279	3624	3587
80°	2665	2954	2808
85°	1846	1883	1809



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.7	3.8
10°-20°	269.0	10.0
20°-30°	391.2	14.5
30°-40°	465.5	17.2
40°-50°	483.4	17.9
50°-60°	437.9	16.2
60°-70°	330.5	12.2
70°-80°	180.0	6.7
80°-90°	39.6	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°	763.0	28.3
0°-40°	1228.5	45.5
0°-60°	2149.8	79.6
0°-90°	2699.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2699.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1162	1162	1162	1162	1162	
5°	1112	1109	1104	1103	1104	103
15°	952	950	950	957	960	269
25°	836	843	850	856	854	385
35°	725	733	746	757	753	453
45°	602	612	633	640	641	465
55°	464	475	500	503	502	414
65°	312	322	344	344	342	309
75°	158	164	174	175	172	168
85°	30	30	30	30	29	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1162.3	1162.3	1162.3	1162.3	1162.3
2.5°	1152.2	1151.0	1147.2	1145.8	1145.5
5°	1111.8	1109.2	1104.0	1103.4	1104.0
7.5°	1063.6	1060.7	1055.5	1057.5	1060.1
10°	1022.9	1015.7	1013.6	1016.5	1021.5
12.5°	986.6	980.8	979.1	986.6	990.1
15°	952.1	949.7	950.3	956.7	959.6
17.5°	922.2	920.7	924.5	929.4	930.9
20°	892.2	895.1	898.6	903.9	905.6
22.5°	862.9	868.4	874.2	881.2	878.9
25°	835.9	842.9	849.5	856.5	854.5
27.5°	807.1	815.3	824.6	832.1	829.2
30°	779.5	789.7	798.7	808.0	803.7
32.5°	752.3	761.8	772.6	783.9	779.0
35°	724.7	733.4	745.9	757.2	753.4
37.5°	694.2	704.9	719.1	729.0	726.4
40°	665.7	675.6	692.7	699.1	698.5
42.5°	636.9	645.1	663.1	670.3	669.2
45°	601.8	612.5	633.2	640.1	640.7
47.5°	570.7	579.7	601.8	607.3	608.5
50°	535.0	546.3	568.4	575.1	576.0
52.5°	499.8	512.0	534.7	539.3	540.2
55°	464.1	475.2	499.8	503.3	501.9
57.5°	426.7	440.0	462.7	464.4	465.9
60°	390.1	401.7	423.7	426.1	422.9
62.5°	350.3	362.2	384.8	385.4	382.8
65°	312.5	321.5	344.5	343.9	342.1
67.5°	273.0	284.0	300.9	301.5	300.0
70°	236.1	243.7	259.9	260.2	256.8
72.5°	196.3	204.5	217.5	215.8	214.9
75°	157.7	164.1	174.3	175.4	172.5
77.5°	122.3	126.9	134.5	133.6	130.4
80°	86.0	89.7	95.3	94.1	90.6
82.5°	54.9	57.2	60.7	59.3	57.8
85°	29.9	30.2	30.5	30.2	29.3
87.5°	11.0	11.3	11.3	11.0	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)