

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: P488496

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-2HI-27-120-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: P488496  
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-LD4-2HI-27-120-EDD-90  
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

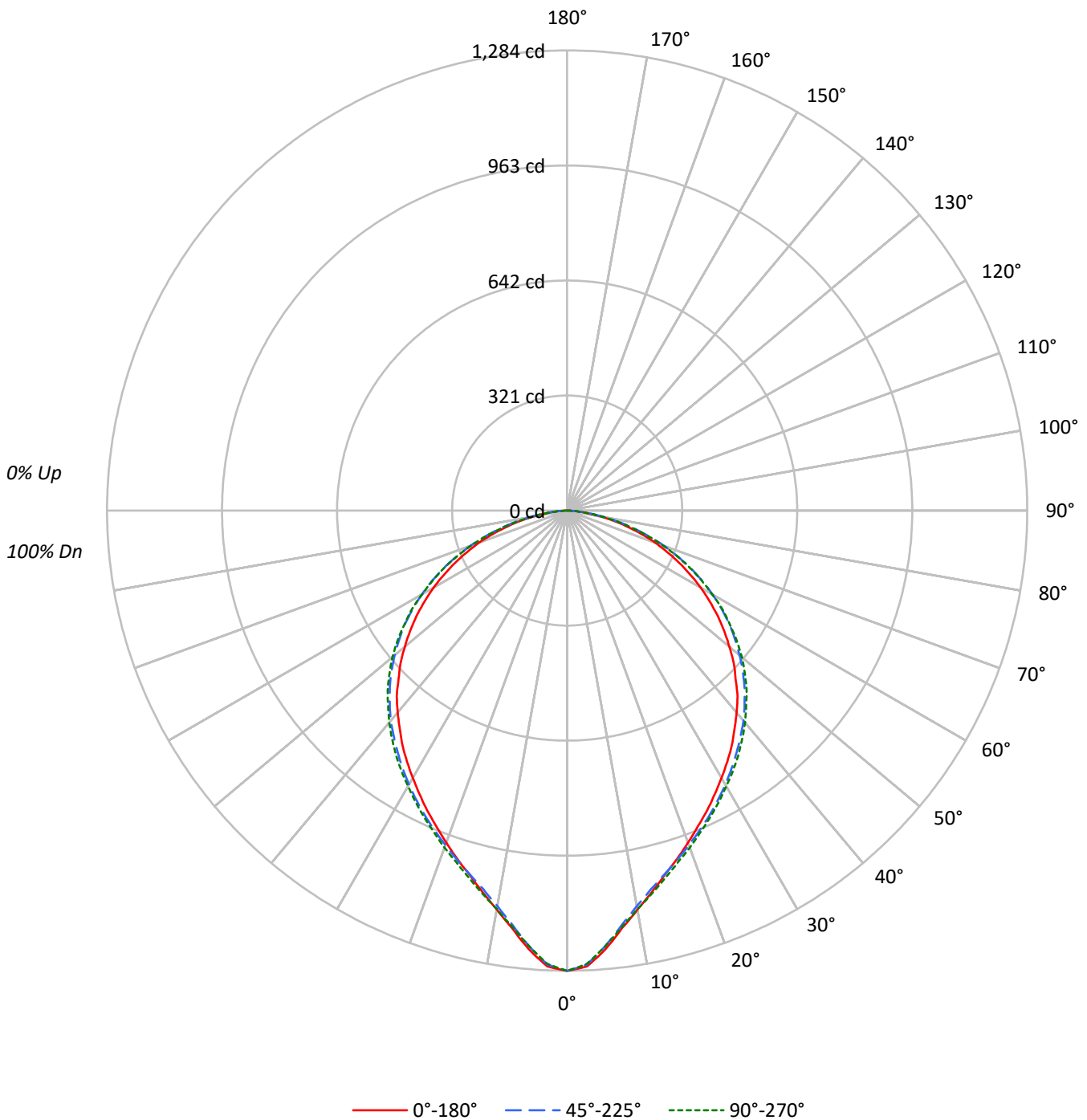
Lumens per Lamp: N/A  
Luminaire Lumens: 2983.7 lumens  
Efficiency: N/A  
Efficacy: 69.1 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 43.2  
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°	6913	6913	6913
5°	6638	6591	6591
10°	6178	6122	6169
15°	5862	5852	5909
20°	5647	5688	5732
25°	5486	5575	5608
30°	5354	5486	5519
35°	5261	5416	5470
40°	5169	5378	5423
45°	5062	5326	5390
50°	4950	5259	5329
55°	4813	5183	5204
60°	4640	5041	5030
65°	4399	4848	4815
70°	4105	4521	4464
75°	3624	4005	3965
80°	2944	3264	3102
85°	2044	2081	2001



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.5	3.8
10°-20°	297.3	10.0
20°-30°	432.3	14.5
30°-40°	514.5	17.2
40°-50°	534.2	17.9
50°-60°	484.0	16.2
60°-70°	365.2	12.2
70°-80°	199.0	6.7
80°-90°	43.7	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°	843.2	28.3
0°-40°	1357.6	45.5
0°-60°	2375.8	79.6
0°-90°	2983.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2983.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1284	1284	1284	1284	1284	
5°	1229	1226	1220	1219	1220	114
15°	1052	1050	1050	1057	1060	297
25°	924	932	939	946	944	426
35°	801	810	824	837	833	501
45°	665	677	700	707	708	514
55°	513	525	552	556	555	458
65°	345	355	381	380	378	341
75°	174	181	193	194	191	186
85°	33	33	34	33	32	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1284.5	1284.5	1284.5	1284.5	1284.5
2.5°	1273.3	1272.0	1267.8	1266.2	1265.9
5°	1228.7	1225.8	1220.0	1219.4	1220.0
7.5°	1175.4	1172.2	1166.4	1168.7	1171.5
10°	1130.5	1122.4	1120.2	1123.4	1128.9
12.5°	1090.3	1083.9	1082.0	1090.3	1094.2
15°	1052.1	1049.6	1050.2	1057.3	1060.5
17.5°	1019.1	1017.5	1021.7	1027.1	1028.7
20°	986.0	989.2	993.1	998.9	1000.8
22.5°	953.6	959.7	966.1	973.8	971.3
25°	923.8	931.5	938.8	946.5	944.3
27.5°	892.0	901.0	911.2	919.6	916.4
30°	861.5	872.7	882.7	892.9	888.1
32.5°	831.3	841.9	853.8	866.3	860.8
35°	800.8	810.5	824.3	836.8	832.6
37.5°	767.1	779.0	794.7	805.6	802.8
40°	735.7	746.6	765.5	772.6	771.9
42.5°	703.9	712.9	732.8	740.8	739.5
45°	665.1	676.9	699.7	707.4	708.1
47.5°	630.7	640.7	665.1	671.1	672.4
50°	591.2	603.8	628.1	635.5	636.5
52.5°	552.4	565.9	590.9	596.0	597.0
55°	512.9	525.1	552.4	556.3	554.6
57.5°	471.5	486.3	511.3	513.2	514.8
60°	431.1	443.9	468.3	470.9	467.3
62.5°	387.1	400.2	425.3	425.9	423.0
65°	345.4	355.3	380.7	380.0	378.1
67.5°	301.7	313.9	332.5	333.2	331.6
70°	260.9	269.3	287.3	287.6	283.7
72.5°	217.0	226.0	240.4	238.5	237.5
75°	174.3	181.4	192.6	193.9	190.7
77.5°	135.1	140.3	148.6	147.7	144.1
80°	95.0	99.2	105.3	104.0	100.1
82.5°	60.7	63.2	67.1	65.5	63.9
85°	33.1	33.4	33.7	33.4	32.4
87.5°	12.2	12.5	12.5	12.2	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)