

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: P488501

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-2HI-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: P488501  
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-35-120-EDD  
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

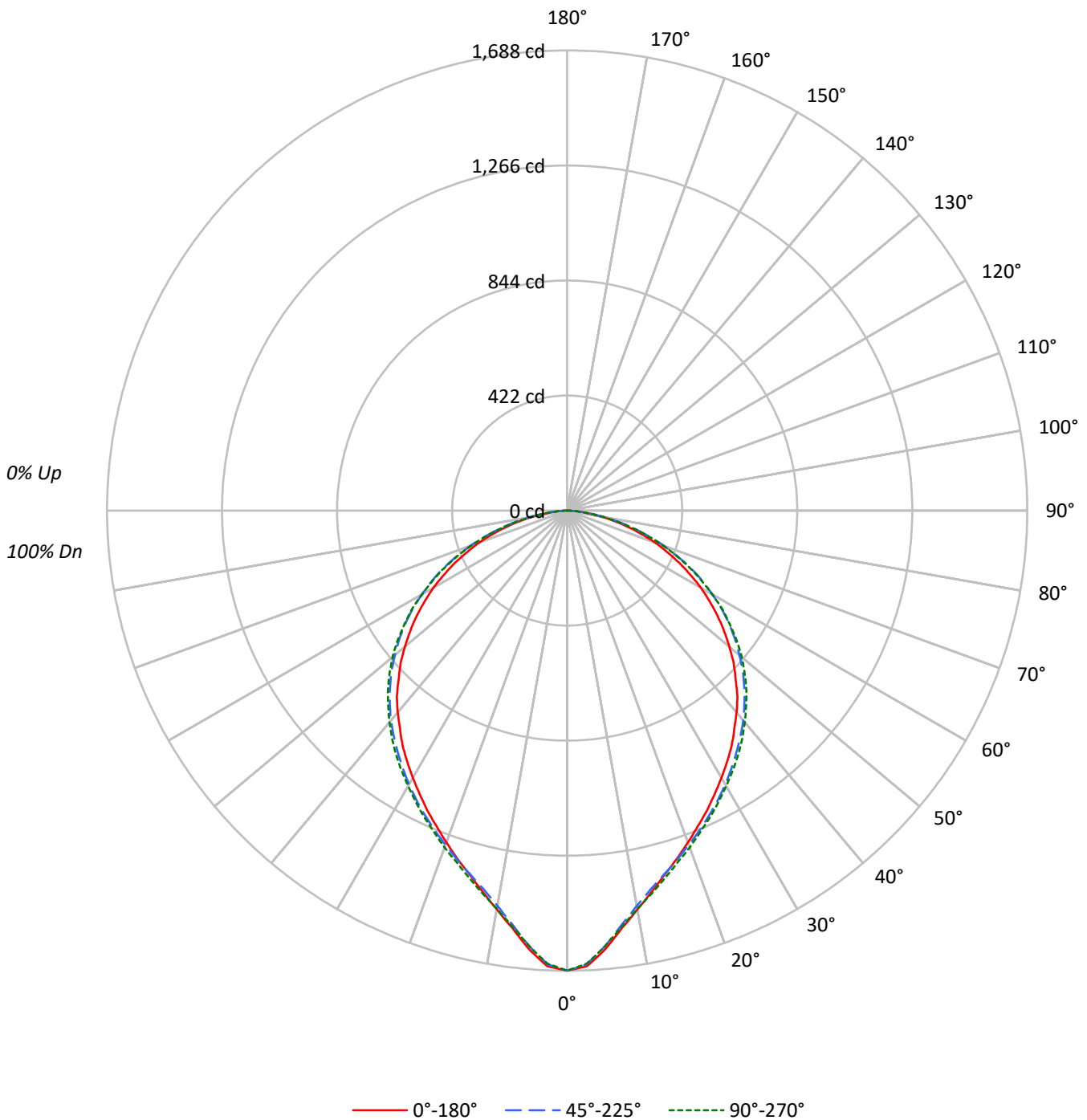
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3919.6 lumens  
Efficiency: N/A  
Efficacy: 90.7 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): 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°	9082	9082	9082
5°	8720	8659	8659
10°	8116	8042	8104
15°	7701	7687	7762
20°	7419	7472	7530
25°	7206	7324	7367
30°	7033	7206	7251
35°	6912	7114	7186
40°	6790	7065	7125
45°	6650	6996	7080
50°	6503	6909	7001
55°	6322	6808	6837
60°	6096	6622	6608
65°	5778	6369	6325
70°	5394	5939	5866
75°	4762	5261	5209
80°	3868	4286	4076
85°	2680	2736	2631



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.1	3.8
10°-20°	390.6	10.0
20°-30°	568.0	14.5
30°-40°	675.9	17.2
40°-50°	701.8	17.9
50°-60°	635.8	16.2
60°-70°	479.8	12.2
70°-80°	261.4	6.7
80°-90°	57.4	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°	1107.6	28.3
0°-40°	1783.5	45.5
0°-60°	3121.0	79.6
0°-90°	3919.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3919.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1688	1688	1688	1688	1688	
5°	1614	1610	1603	1602	1603	150
15°	1382	1379	1380	1389	1393	390
25°	1214	1224	1233	1243	1240	559
35°	1052	1065	1083	1099	1094	658
45°	874	889	919	929	930	675
55°	674	690	726	731	729	602
65°	454	467	500	499	497	449
75°	229	238	253	255	250	244
85°	43	44	44	44	43	55
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1687.5	1687.5	1687.5	1687.5	1687.5
2.5°	1672.7	1671.0	1665.5	1663.4	1663.0
5°	1614.1	1610.3	1602.7	1601.9	1602.7
7.5°	1544.1	1539.9	1532.3	1535.2	1539.0
10°	1485.1	1474.5	1471.5	1475.8	1482.9
12.5°	1432.3	1423.9	1421.4	1432.3	1437.4
15°	1382.2	1378.8	1379.6	1388.9	1393.1
17.5°	1338.7	1336.6	1342.1	1349.3	1351.4
20°	1295.3	1299.5	1304.6	1312.2	1314.7
22.5°	1252.7	1260.7	1269.2	1279.3	1275.9
25°	1213.5	1223.6	1233.3	1243.4	1240.5
27.5°	1171.8	1183.6	1197.1	1208.0	1203.8
30°	1131.7	1146.5	1159.5	1173.0	1166.7
32.5°	1092.1	1106.0	1121.6	1138.0	1130.9
35°	1052.0	1064.7	1082.8	1099.3	1093.8
37.5°	1007.8	1023.3	1044.0	1058.3	1054.6
40°	966.4	980.8	1005.6	1014.9	1014.1
42.5°	924.7	936.5	962.6	973.2	971.5
45°	873.7	889.3	919.2	929.3	930.2
47.5°	828.5	841.6	873.7	881.7	883.3
50°	776.7	793.1	825.2	834.9	836.1
52.5°	725.6	743.4	776.3	783.0	784.3
55°	673.8	689.8	725.6	730.7	728.6
57.5°	619.4	638.8	671.7	674.2	676.3
60°	566.3	583.1	615.2	618.6	613.9
62.5°	508.5	525.8	558.7	559.5	555.7
65°	453.7	466.8	500.1	499.2	496.7
67.5°	396.3	412.4	436.8	437.7	435.6
70°	342.8	353.8	377.4	377.8	372.8
72.5°	285.0	296.8	315.8	313.3	312.0
75°	229.0	238.2	253.0	254.7	250.5
77.5°	177.5	184.3	195.2	194.0	189.3
80°	124.8	130.3	138.3	136.6	131.5
82.5°	79.7	83.1	88.1	86.0	83.9
85°	43.4	43.8	44.3	43.8	42.6
87.5°	16.0	16.5	16.5	16.0	14.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)