

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: P489278

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-2STD-30-120-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: P489278  
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-24-2-INS-P12125-LD4-2STD-30-120-EDD-90  
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

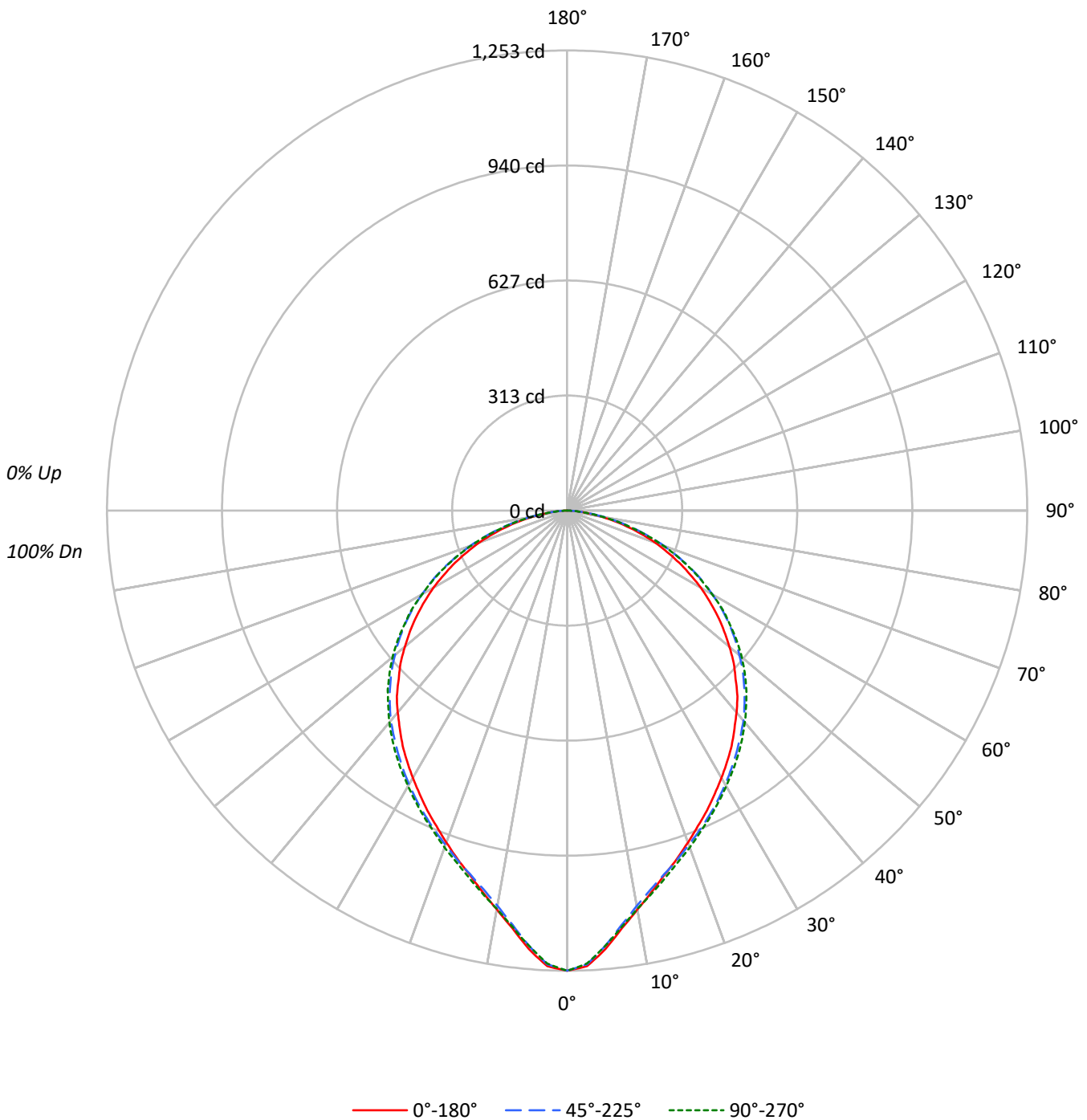
Lumens per Lamp: N/A  
Luminaire Lumens: 2910.2 lumens  
Efficiency: N/A  
Efficacy: 87.4 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

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°	3372	3372	3372
5°	3237	3214	3214
10°	3013	2986	3008
15°	2859	2854	2882
20°	2754	2774	2795
25°	2675	2719	2735
30°	2611	2675	2692
35°	2566	2641	2668
40°	2520	2623	2645
45°	2469	2597	2628
50°	2414	2565	2599
55°	2347	2528	2538
60°	2263	2458	2453
65°	2145	2364	2348
70°	2002	2205	2178
75°	1768	1953	1934
80°	1437	1592	1514
85°	997	1016	976



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.7	3.8
10°-20°	290.0	10.0
20°-30°	421.7	14.5
30°-40°	501.8	17.2
40°-50°	521.1	17.9
50°-60°	472.1	16.2
60°-70°	356.2	12.2
70°-80°	194.1	6.7
80°-90°	42.6	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°	822.4	28.3
0°-40°	1324.2	45.5
0°-60°	2317.3	79.6
0°-90°	2910.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2910.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1253	1253	1253	1253	1253	
5°	1198	1196	1190	1189	1190	111
15°	1026	1024	1024	1031	1034	290
25°	901	908	916	923	921	415
35°	781	790	804	816	812	488
45°	649	660	682	690	691	501
55°	500	512	539	543	541	447
65°	337	347	371	371	369	333
75°	170	177	188	189	186	181
85°	32	32	33	32	32	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1252.9	1252.9	1252.9	1252.9	1252.9
2.5°	1241.9	1240.7	1236.6	1235.0	1234.7
5°	1198.4	1195.6	1190.0	1189.3	1190.0
7.5°	1146.4	1143.3	1137.7	1139.9	1142.7
10°	1102.6	1094.8	1092.6	1095.7	1101.0
12.5°	1063.5	1057.2	1055.3	1063.5	1067.2
15°	1026.2	1023.7	1024.3	1031.2	1034.4
17.5°	994.0	992.4	996.5	1001.8	1003.4
20°	961.7	964.9	968.6	974.3	976.1
22.5°	930.1	936.1	942.3	949.8	947.3
25°	901.0	908.5	915.7	923.2	921.0
27.5°	870.0	878.8	888.8	896.9	893.8
30°	840.3	851.2	860.9	870.9	866.3
32.5°	810.8	821.2	832.7	845.0	839.6
35°	781.1	790.5	804.0	816.2	812.1
37.5°	748.2	759.8	775.1	785.8	783.0
40°	717.5	728.2	746.7	753.6	752.9
42.5°	686.5	695.3	714.7	722.6	721.3
45°	648.7	660.3	682.5	690.0	690.6
47.5°	615.2	624.9	648.7	654.6	655.9
50°	576.7	588.9	612.7	619.9	620.8
52.5°	538.8	551.9	576.3	581.4	582.3
55°	500.3	512.2	538.8	542.6	541.0
57.5°	459.9	474.3	498.7	500.6	502.2
60°	420.4	433.0	456.8	459.3	455.8
62.5°	377.6	390.4	414.8	415.4	412.6
65°	336.8	346.6	371.3	370.7	368.8
67.5°	294.3	306.2	324.3	325.0	323.4
70°	254.5	262.7	280.2	280.5	276.8
72.5°	211.6	220.4	234.5	232.6	231.7
75°	170.0	176.9	187.8	189.1	186.0
77.5°	131.8	136.8	145.0	144.0	140.6
80°	92.7	96.7	102.7	101.4	97.7
82.5°	59.2	61.7	65.4	63.9	62.3
85°	32.3	32.5	32.9	32.5	31.6
87.5°	11.9	12.2	12.2	11.9	11.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)