

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: P489295

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-3HI-40-120-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: P489295  
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-LD4-3HI-40-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

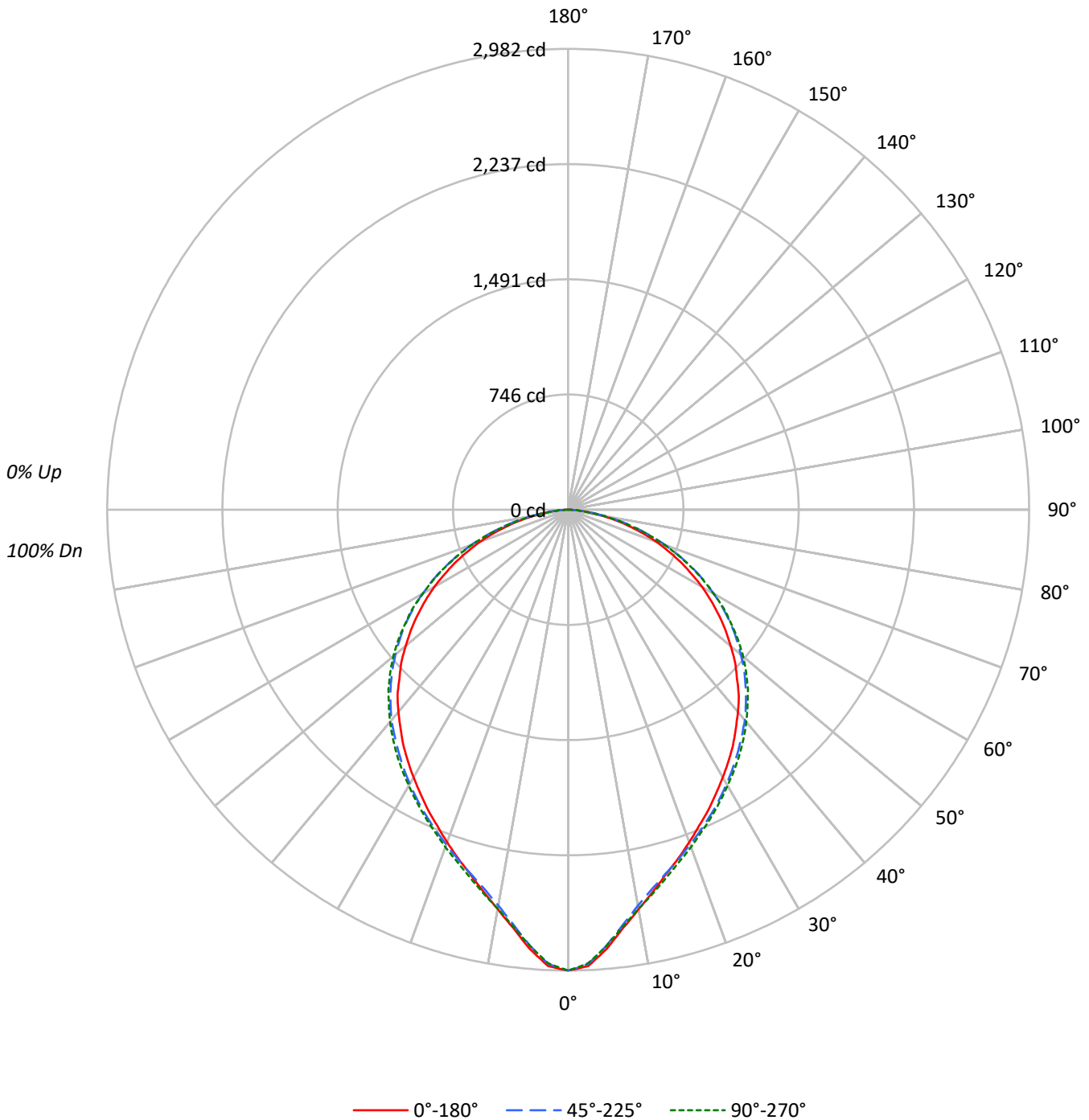
Lumens per Lamp: N/A  
Luminaire Lumens: 6927.0 lumens  
Efficiency: N/A  
Efficacy: 106.9 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 64.8  
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°	8025	8025	8025
5°	7705	7651	7651
10°	7171	7106	7161
15°	6805	6793	6859
20°	6556	6603	6653
25°	6368	6472	6509
30°	6215	6367	6407
35°	6108	6286	6350
40°	6000	6243	6295
45°	5876	6182	6256
50°	5746	6105	6186
55°	5587	6016	6041
60°	5386	5851	5839
65°	5105	5627	5589
70°	4766	5247	5183
75°	4207	4649	4602
80°	3419	3787	3603
85°	2371	2414	2322



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	263.5	3.8
10°-20°	690.2	10.0
20°-30°	1003.7	14.5
30°-40°	1194.4	17.2
40°-50°	1240.2	17.9
50°-60°	1123.6	16.2
60°-70°	847.8	12.2
70°-80°	462.0	6.7
80°-90°	101.5	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°	1957.5	28.3
0°-40°	3151.9	45.5
0°-60°	5515.7	79.6
0°-90°	6927.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6927.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2982	2982	2982	2982	2982	
5°	2852	2846	2832	2831	2832	265
15°	2443	2437	2438	2455	2462	689
25°	2145	2162	2180	2198	2192	988
35°	1859	1882	1914	1943	1933	1162
45°	1544	1572	1624	1642	1644	1193
55°	1191	1219	1282	1291	1288	1063
65°	802	825	884	882	878	793
75°	405	421	447	450	443	431
85°	77	78	78	78	75	97
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2982.2	2982.2	2982.2	2982.2	2982.2
2.5°	2956.1	2953.1	2943.4	2939.7	2938.9
5°	2852.5	2845.8	2832.4	2830.9	2832.4
7.5°	2728.8	2721.3	2708.0	2713.2	2719.9
10°	2624.5	2605.9	2600.6	2608.1	2620.8
12.5°	2531.3	2516.4	2511.9	2531.3	2540.3
15°	2442.6	2436.7	2438.2	2454.6	2462.0
17.5°	2365.9	2362.2	2371.9	2384.6	2388.3
20°	2289.2	2296.6	2305.6	2319.0	2323.4
22.5°	2213.9	2228.0	2243.0	2260.9	2254.9
25°	2144.6	2162.5	2179.6	2197.5	2192.3
27.5°	2070.8	2091.7	2115.5	2134.9	2127.5
30°	2000.0	2026.1	2049.2	2073.0	2061.9
32.5°	1930.0	1954.6	1982.1	2011.2	1998.6
35°	1859.2	1881.6	1913.6	1942.7	1933.0
37.5°	1781.0	1808.5	1845.0	1870.3	1863.7
40°	1707.9	1733.3	1777.2	1793.6	1792.1
42.5°	1634.1	1655.1	1701.2	1719.8	1716.9
45°	1544.0	1571.6	1624.5	1642.4	1643.8
47.5°	1464.3	1487.4	1544.0	1558.1	1561.1
50°	1372.6	1401.7	1458.3	1475.4	1477.7
52.5°	1282.4	1313.7	1371.9	1383.8	1386.0
55°	1190.8	1219.1	1282.4	1291.4	1287.7
57.5°	1094.7	1128.9	1187.1	1191.5	1195.3
60°	1000.7	1030.6	1087.2	1093.1	1085.0
62.5°	898.7	929.2	987.4	988.8	982.1
65°	801.8	824.9	883.7	882.3	877.8
67.5°	700.4	728.7	772.0	773.5	769.8
70°	605.8	625.2	666.9	667.7	658.8
72.5°	503.8	524.6	558.1	553.7	551.5
75°	404.6	421.0	447.1	450.1	442.6
77.5°	313.7	325.6	345.0	342.8	334.6
80°	220.6	230.2	244.4	241.5	232.5
82.5°	140.8	146.8	155.8	152.0	148.3
85°	76.8	77.5	78.2	77.5	75.2
87.5°	28.3	29.1	29.1	28.3	26.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)