

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: P489355

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-4STD-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: P489355  
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-LD4-4STD-40-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

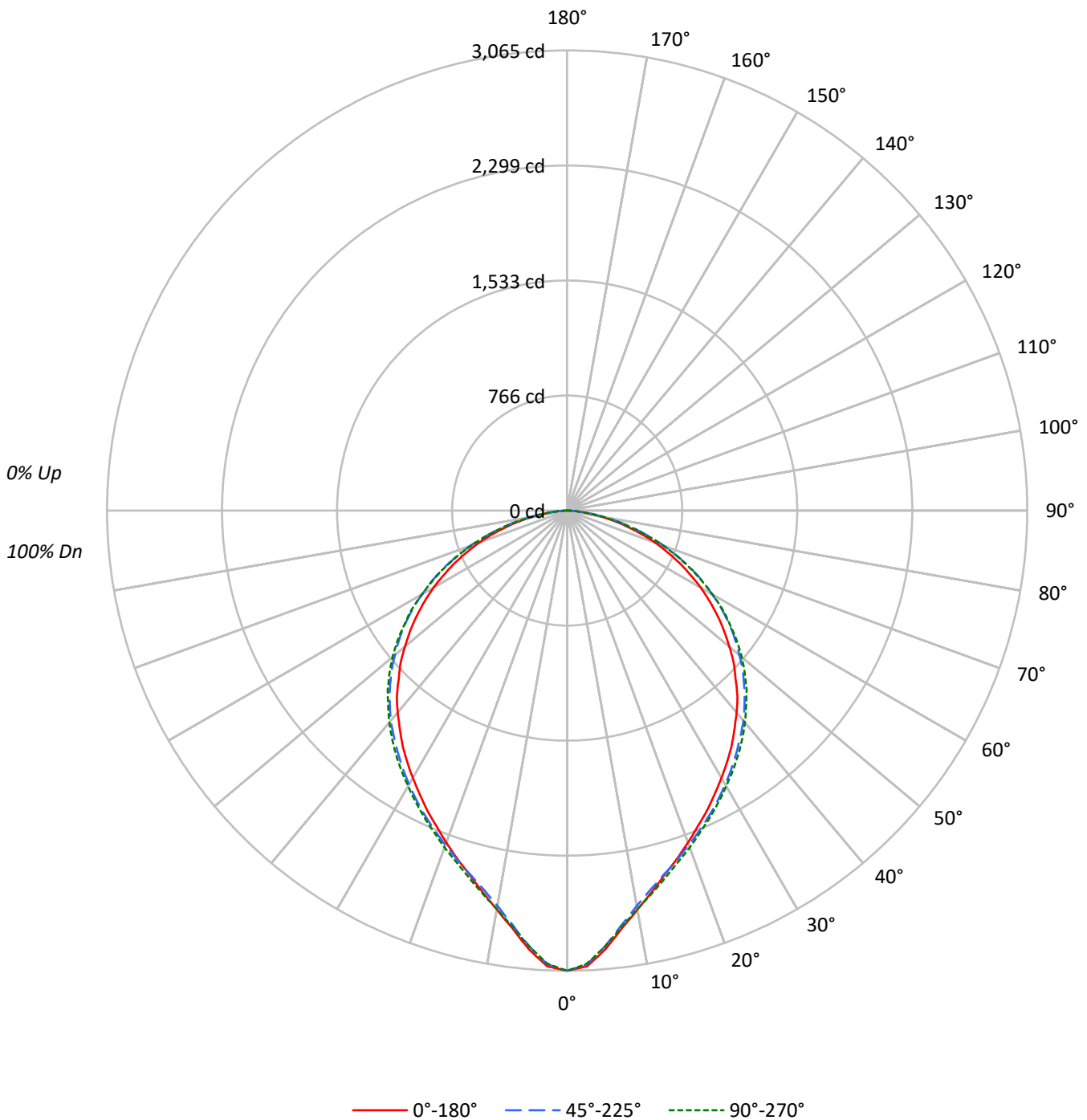
Lumens per Lamp: N/A  
Luminaire Lumens: 7119.4 lumens  
Efficiency: N/A  
Efficacy: 106.9 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 66.6  
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°	8248	8248	8248
5°	7920	7864	7864
10°	7371	7303	7360
15°	6994	6981	7049
20°	6737	6786	6838
25°	6545	6652	6690
30°	6387	6544	6585
35°	6277	6461	6526
40°	6166	6417	6470
45°	6039	6354	6430
50°	5906	6275	6358
55°	5742	6184	6209
60°	5535	6014	6001
65°	5247	5784	5745
70°	4899	5393	5327
75°	4324	4777	4730
80°	3513	3893	3702
85°	2436	2482	2387



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	270.8	3.8
10°-20°	709.4	10.0
20°-30°	1031.6	14.5
30°-40°	1227.6	17.2
40°-50°	1274.7	17.9
50°-60°	1154.8	16.2
60°-70°	871.4	12.2
70°-80°	474.8	6.7
80°-90°	104.3	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°	2011.8	28.3
0°-40°	3239.4	45.5
0°-60°	5668.9	79.6
0°-90°	7119.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7119.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3065	3065	3065	3065	3065	
5°	2932	2925	2911	2910	2911	272
15°	2510	2504	2506	2523	2530	709
25°	2204	2222	2240	2258	2253	1016
35°	1911	1934	1967	1997	1987	1195
45°	1587	1615	1670	1688	1690	1227
55°	1224	1253	1318	1327	1323	1093
65°	824	848	908	907	902	815
75°	416	433	460	463	455	443
85°	79	80	80	80	77	100
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3065.0	3065.0	3065.0	3065.0	3065.0
2.5°	3038.2	3035.1	3025.2	3021.3	3020.6
5°	2931.8	2924.9	2911.1	2909.6	2911.1
7.5°	2804.6	2796.9	2783.2	2788.5	2795.4
10°	2697.4	2678.3	2672.8	2680.5	2693.5
12.5°	2601.6	2586.3	2581.7	2601.6	2610.9
15°	2510.5	2504.4	2505.9	2522.8	2530.4
17.5°	2431.6	2427.8	2437.8	2450.8	2454.6
20°	2352.7	2360.4	2369.6	2383.4	2388.0
22.5°	2275.4	2289.9	2305.3	2323.6	2317.5
25°	2204.2	2222.5	2240.2	2258.5	2253.2
27.5°	2128.3	2149.8	2174.3	2194.2	2186.5
30°	2055.6	2082.4	2106.1	2130.6	2119.2
32.5°	1983.6	2008.9	2037.2	2067.1	2054.1
35°	1910.8	1933.8	1966.8	1996.6	1986.7
37.5°	1830.4	1858.8	1896.3	1922.3	1915.5
40°	1755.4	1781.4	1826.6	1843.5	1841.9
42.5°	1679.5	1701.0	1748.5	1767.6	1764.6
45°	1586.9	1615.2	1669.6	1688.0	1689.5
47.5°	1504.9	1528.7	1586.9	1601.4	1604.5
50°	1410.7	1440.6	1498.8	1516.4	1518.7
52.5°	1318.0	1350.2	1410.0	1422.2	1424.5
55°	1223.8	1252.9	1318.0	1327.3	1323.4
57.5°	1125.1	1160.3	1220.1	1224.6	1228.5
60°	1028.5	1059.2	1117.4	1123.5	1115.1
62.5°	923.7	955.0	1014.8	1016.3	1009.4
65°	824.0	847.8	908.3	906.8	902.2
67.5°	719.9	749.0	793.4	794.9	791.2
70°	622.6	642.5	685.4	686.2	677.0
72.5°	517.7	539.2	573.6	569.0	566.8
75°	415.9	432.7	459.5	462.6	454.9
77.5°	322.4	334.7	354.6	352.3	343.9
80°	226.7	236.6	251.2	248.2	238.9
82.5°	144.7	150.9	160.1	156.2	152.4
85°	78.9	79.6	80.4	79.6	77.3
87.5°	29.1	29.9	29.9	29.1	26.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)