

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: P489811

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-2LO-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: P489811  
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-24-4-INS-P12125-LD4-2LO-40-120-EDD  
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

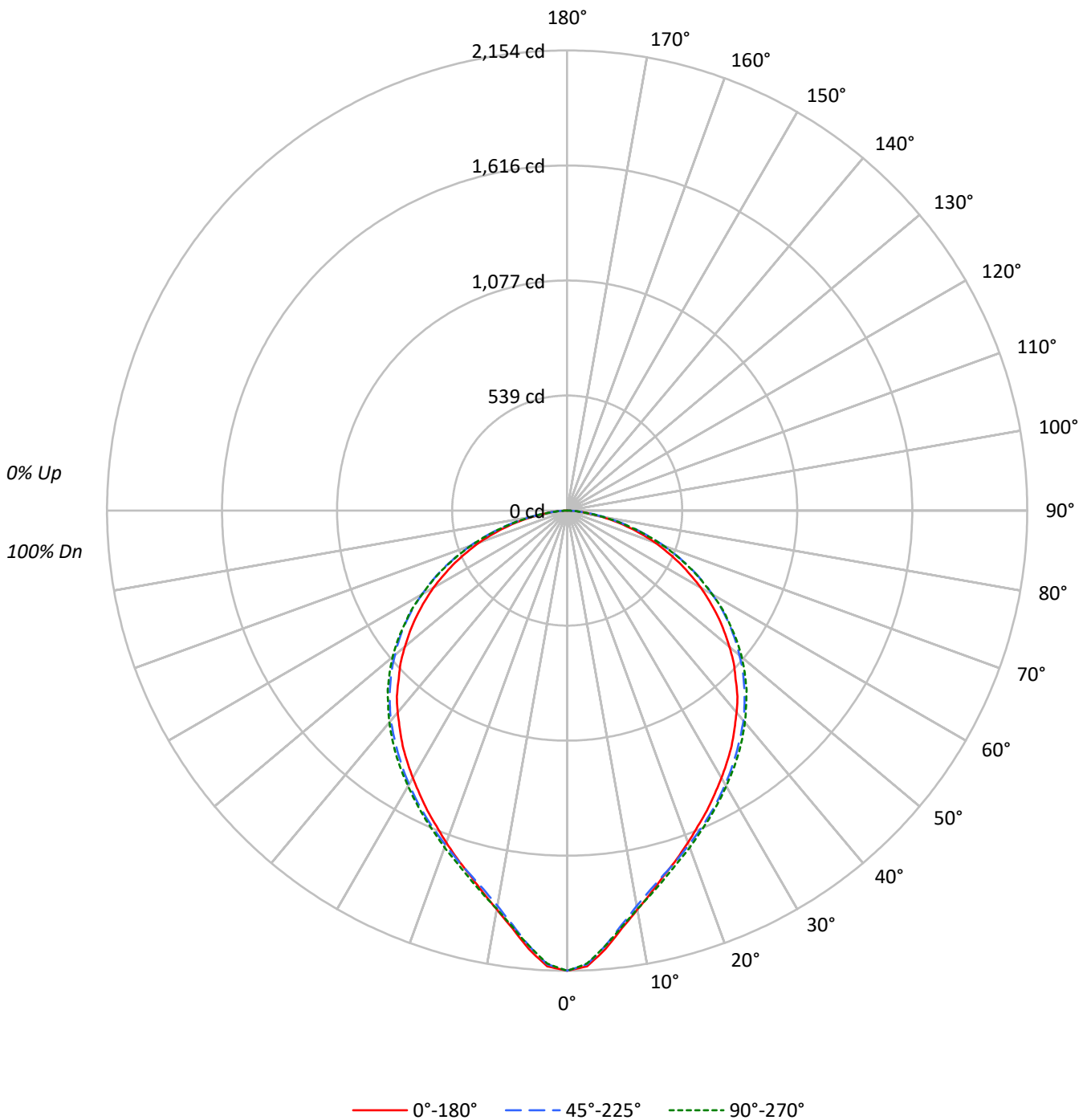
Lumens per Lamp: N/A  
Luminaire Lumens: 5003.0 lumens  
Efficiency: N/A  
Efficacy: 106.9 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 46.8  
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°	2898	2898	2898
5°	2783	2763	2763
10°	2590	2566	2586
15°	2457	2453	2477
20°	2367	2384	2403
25°	2299	2337	2351
30°	2244	2299	2314
35°	2206	2270	2293
40°	2167	2255	2273
45°	2122	2233	2259
50°	2075	2205	2234
55°	2017	2173	2182
60°	1945	2113	2109
65°	1844	2032	2018
70°	1721	1895	1872
75°	1519	1679	1662
80°	1234	1368	1301
85°	855	872	838



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	190.3	3.8
10°-20°	498.5	10.0
20°-30°	724.9	14.5
30°-40°	862.7	17.2
40°-50°	895.8	17.9
50°-60°	811.5	16.2
60°-70°	612.3	12.2
70°-80°	333.6	6.7
80°-90°	73.3	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°	1413.8	28.3
0°-40°	2276.4	45.5
0°-60°	3983.7	79.6
0°-90°	5003.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5003.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2154	2154	2154	2154	2154	
5°	2060	2055	2046	2045	2046	191
15°	1764	1760	1761	1773	1778	498
25°	1549	1562	1574	1587	1583	714
35°	1343	1359	1382	1403	1396	840
45°	1115	1135	1173	1186	1187	862
55°	860	880	926	933	930	768
65°	579	596	638	637	634	572
75°	292	304	323	325	320	311
85°	55	56	56	56	54	70
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2153.9	2153.9	2153.9	2153.9	2153.9
2.5°	2135.0	2132.9	2125.9	2123.2	2122.6
5°	2060.2	2055.4	2045.7	2044.6	2045.7
7.5°	1970.9	1965.5	1955.8	1959.6	1964.4
10°	1895.5	1882.1	1878.3	1883.7	1892.8
12.5°	1828.2	1817.5	1814.2	1828.2	1834.7
15°	1764.2	1759.9	1761.0	1772.8	1778.2
17.5°	1708.8	1706.1	1713.1	1722.2	1724.9
20°	1653.3	1658.7	1665.2	1674.9	1678.1
22.5°	1599.0	1609.2	1620.0	1632.9	1628.6
25°	1548.9	1561.8	1574.2	1587.1	1583.4
27.5°	1495.6	1510.7	1527.9	1541.9	1536.5
30°	1444.5	1463.3	1480.0	1497.2	1489.2
32.5°	1393.9	1411.7	1431.6	1452.6	1443.4
35°	1342.8	1359.0	1382.1	1403.1	1396.1
37.5°	1286.3	1306.2	1332.6	1350.9	1346.0
40°	1233.6	1251.9	1283.6	1295.5	1294.4
42.5°	1180.3	1195.4	1228.7	1242.2	1240.0
45°	1115.2	1135.1	1173.3	1186.2	1187.3
47.5°	1057.6	1074.3	1115.2	1125.4	1127.5
50°	991.4	1012.4	1053.3	1065.6	1067.3
52.5°	926.2	948.8	990.8	999.4	1001.1
55°	860.0	880.5	926.2	932.7	930.0
57.5°	790.6	815.4	857.4	860.6	863.3
60°	722.8	744.3	785.2	789.5	783.6
62.5°	649.1	671.1	713.1	714.2	709.3
65°	579.1	595.8	638.3	637.2	634.0
67.5°	505.9	526.3	557.6	558.6	556.0
70°	437.5	451.5	481.7	482.2	475.8
72.5°	363.8	378.9	403.1	399.9	398.3
75°	292.2	304.1	322.9	325.1	319.7
77.5°	226.6	235.2	249.2	247.6	241.6
80°	159.3	166.3	176.5	174.4	167.9
82.5°	101.7	106.0	112.5	109.8	107.1
85°	55.4	56.0	56.5	56.0	54.3
87.5°	20.4	21.0	21.0	20.4	18.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)