

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: METALUX

Report Number: P412786

Luminaire Tested: **22PD-70-PP3-L835**

Issue Date: 9/15/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P412786  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-70-PP3-L835  
Description: 7000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS  
Light Source: -  
Ballast/Driver: -

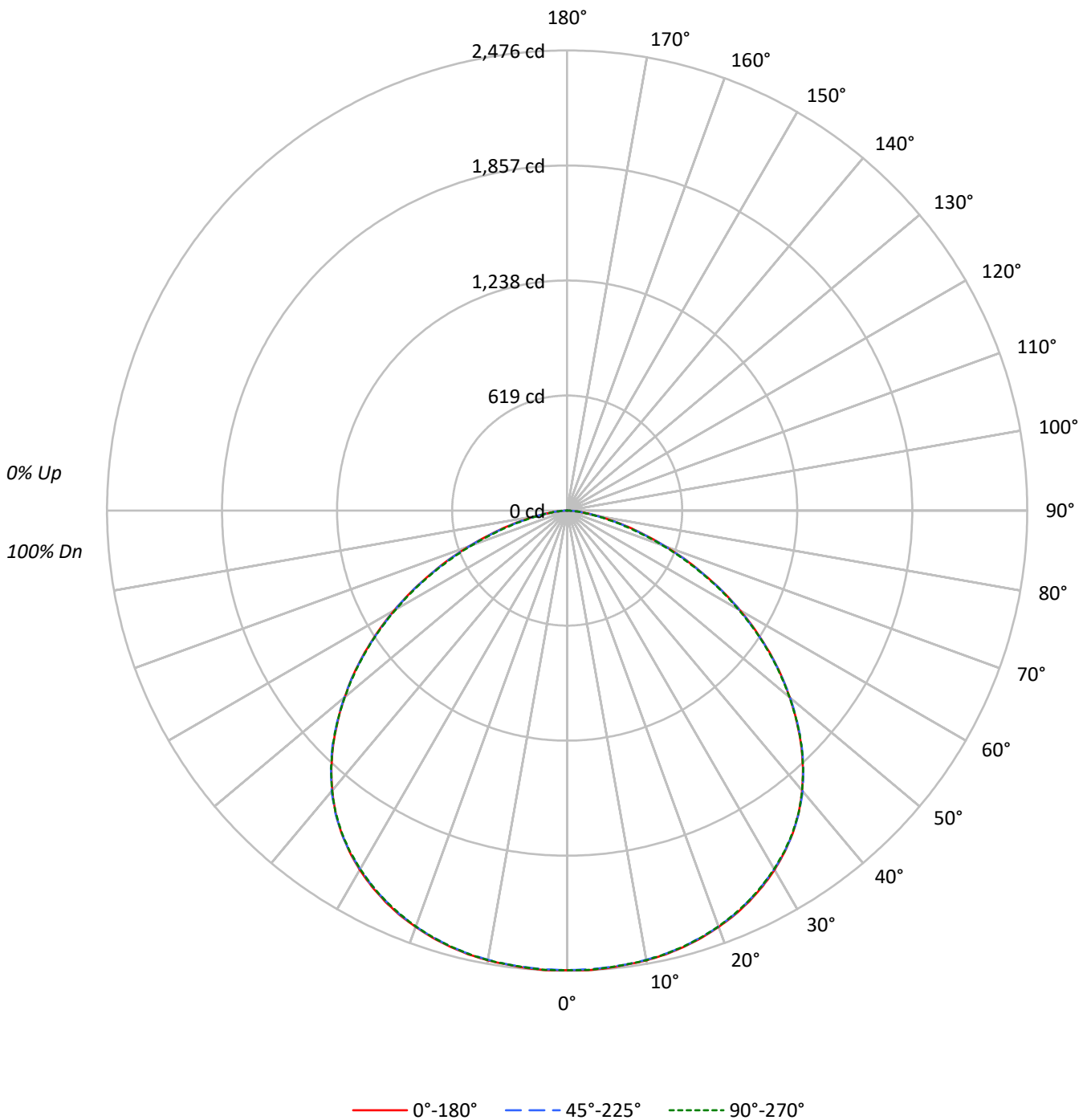
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7094.0 lumens  
Efficiency: N/A  
Efficacy: 112.6 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.43  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 63  
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

TEST NUMBER: P412786

CATALOG NUMBER: 22PD-70-PP3-L835

### Luminous Intensity Polar Plot





TEST NUMBER: P412786

CATALOG NUMBER: 22PD-70-PP3-L835

**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	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	70	62	56	68	61	55	66	60	55	64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	47	57	51	47	45
6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
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°	6654	6654	6654
5°	6675	6666	6670
10°	6716	6707	6711
15°	6769	6762	6762
20°	6828	6821	6818
25°	6888	6876	6876
30°	6936	6924	6921
35°	6956	6956	6948
40°	6911	6926	6911
45°	6774	6793	6783
50°	6546	6556	6539
55°	6232	6216	6205
60°	5785	5772	5727
65°	5167	5162	5104
70°	4417	4391	4294
75°	3519	3417	3314
80°	2507	2456	2329
85°	1630	1630	1581



TEST NUMBER: P412786

CATALOG NUMBER: 22PD-70-PP3-L835

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	235.1	3.3
10°-20°	685.9	9.7
20°-30°	1068.0	15.1
30°-40°	1321.8	18.6
40°-50°	1370.7	19.3
50°-60°	1181.4	16.7
60°-70°	803.2	11.3
70°-80°	359.4	5.1
80°-90°	68.4	1.0
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°	1989.0	28.0
0°-40°	3310.9	46.7
0°-60°	5862.9	82.6
0°-90°	7094.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7094.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2473	2473	2473	2473	2473	
5°	2471	2466	2468	2467	2469	235
15°	2430	2426	2427	2426	2427	687
25°	2320	2316	2316	2315	2316	1070
35°	2118	2115	2118	2114	2115	1323
45°	1780	1778	1785	1781	1782	1370
55°	1328	1323	1325	1323	1323	1184
65°	812	818	811	808	802	806
75°	338	339	329	327	319	364
85°	53	54	53	51	51	69
90°	0	0	0	0	0	



TEST NUMBER: P412786

CATALOG NUMBER: 22PD-70-PP3-L835

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2472.6	2472.6	2472.6	2472.6	2472.6
2.5°	2475.9	2470.9	2470.9	2471.7	2474.2
5°	2470.9	2466.0	2467.6	2466.8	2469.3
7.5°	2464.3	2460.2	2462.7	2461.0	2462.7
10°	2457.7	2453.6	2454.4	2453.6	2456.1
12.5°	2446.2	2441.2	2442.9	2442.9	2443.7
15°	2429.6	2425.5	2427.2	2425.5	2427.2
17.5°	2409.8	2404.9	2405.7	2404.9	2406.5
20°	2384.2	2380.9	2381.8	2380.1	2380.9
22.5°	2355.3	2351.2	2352.0	2350.4	2350.4
25°	2319.8	2316.5	2315.7	2314.9	2315.7
27.5°	2278.6	2274.4	2274.4	2273.6	2273.6
30°	2232.3	2228.2	2228.2	2227.4	2227.4
32.5°	2177.8	2176.2	2177.0	2175.4	2174.5
35°	2117.6	2115.1	2117.6	2114.3	2115.1
37.5°	2047.4	2044.1	2049.1	2045.8	2046.6
40°	1967.3	1965.7	1971.5	1969.0	1967.3
42.5°	1878.2	1878.2	1880.6	1881.5	1879.8
45°	1779.9	1778.3	1784.9	1780.7	1782.4
47.5°	1674.3	1671.8	1676.7	1675.9	1675.1
50°	1563.6	1562.0	1566.1	1562.0	1562.0
52.5°	1448.9	1448.0	1448.9	1444.7	1443.9
55°	1328.3	1323.4	1325.0	1322.6	1322.6
57.5°	1202.9	1197.1	1197.9	1197.1	1197.9
60°	1074.9	1073.2	1072.4	1068.3	1064.2
62.5°	943.6	945.3	944.4	938.7	934.5
65°	811.5	818.1	810.7	808.2	801.6
67.5°	686.9	689.3	684.4	678.6	671.2
70°	561.4	566.3	558.1	552.3	545.7
72.5°	441.7	445.0	437.6	434.2	426.0
75°	338.5	339.3	328.6	326.9	318.7
77.5°	241.1	244.4	236.1	236.1	227.9
80°	161.8	167.6	158.5	156.0	150.3
82.5°	101.5	102.4	99.9	97.4	94.9
85°	52.8	54.5	52.8	51.2	51.2
87.5°	19.8	20.6	19.8	19.0	19.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)