

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: P413128

Luminaire Tested: **22PD-70-PC3-L835**

Issue Date: 9/15/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P413128  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-70-PC3-L835  
Description: 7000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS  
Light Source: -  
Ballast/Driver: -

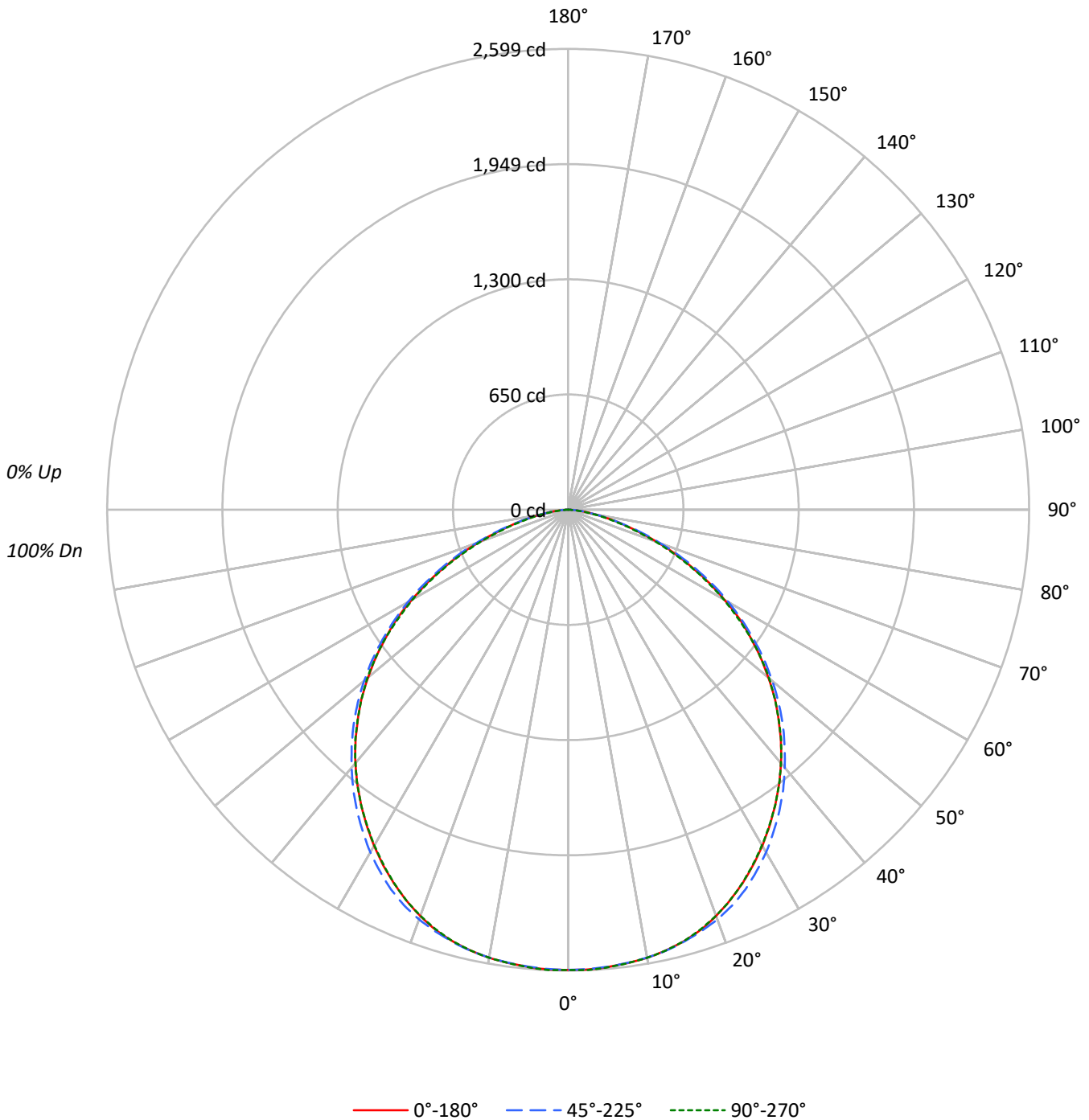
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6973.0 lumens  
Efficiency: N/A  
Efficacy: 110.7 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37  
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

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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	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	91	81	73	67	89	80	72	67	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	49	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	6985	6985	6985
5°	6994	6989	6998
10°	7011	7009	7011
15°	7020	7029	7017
20°	6984	7041	6979
25°	6903	7016	6898
30°	6801	6934	6790
35°	6683	6816	6683
40°	6557	6673	6557
45°	6384	6510	6394
50°	6166	6287	6190
55°	5879	5996	5879
60°	5483	5621	5448
65°	4920	5094	4857
70°	4209	4359	4086
75°	3340	3433	3167
80°	2393	2483	2278
85°	1581	1630	1479



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	246.3	3.5
10°-20°	711.3	10.2
20°-30°	1079.2	15.5
30°-40°	1288.9	18.5
40°-50°	1310.8	18.8
50°-60°	1133.8	16.3
60°-70°	780.2	11.2
70°-80°	354.1	5.1
80°-90°	68.5	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°	2036.8	29.2
0°-40°	3325.7	47.7
0°-60°	5770.2	82.8
0°-90°	6973.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6973.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2596	2596	2596	2596	2596	
5°	2589	2586	2587	2587	2591	246
15°	2520	2521	2523	2519	2519	711
25°	2325	2346	2363	2341	2323	1071
35°	2034	2071	2075	2067	2034	1272
45°	1678	1708	1711	1709	1680	1294
55°	1253	1275	1278	1276	1253	1120
65°	773	794	800	793	763	767
75°	321	334	330	327	305	345
85°	51	54	53	51	48	67
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2595.6	2595.6	2595.6	2595.6	2595.6
2.5°	2595.6	2592.3	2593.1	2594.0	2598.9
5°	2589.0	2586.5	2587.4	2587.4	2590.7
7.5°	2578.3	2577.5	2577.5	2576.6	2579.1
10°	2565.9	2564.2	2565.1	2564.2	2565.9
12.5°	2546.9	2546.9	2547.7	2545.3	2546.9
15°	2519.7	2521.3	2523.0	2518.8	2518.8
17.5°	2485.0	2489.1	2493.2	2485.8	2481.7
20°	2438.8	2448.7	2458.6	2447.0	2437.1
22.5°	2385.1	2401.6	2416.5	2398.3	2385.1
25°	2324.8	2345.5	2362.8	2341.3	2323.2
27.5°	2259.6	2282.7	2299.2	2281.1	2256.3
30°	2188.6	2216.7	2231.5	2214.2	2185.3
32.5°	2112.7	2145.7	2154.8	2144.0	2111.0
35°	2034.2	2070.6	2074.7	2067.2	2034.2
37.5°	1952.5	1987.2	1990.5	1986.3	1952.5
40°	1866.6	1898.8	1899.7	1899.7	1866.6
42.5°	1775.0	1806.4	1806.4	1805.5	1777.5
45°	1677.6	1708.1	1710.6	1708.9	1680.1
47.5°	1581.0	1604.1	1608.2	1604.9	1579.3
50°	1472.8	1496.8	1501.7	1498.4	1478.6
52.5°	1365.5	1387.8	1392.8	1390.3	1368.0
55°	1253.2	1274.7	1278.0	1275.5	1253.2
57.5°	1145.1	1159.1	1162.4	1157.5	1129.4
60°	1018.8	1038.6	1044.4	1038.6	1012.2
62.5°	896.6	918.0	923.0	914.7	886.7
65°	772.7	794.2	800.0	793.4	762.8
67.5°	655.5	671.2	676.1	668.7	640.6
70°	535.0	554.8	554.0	544.1	519.3
72.5°	416.1	443.3	438.4	432.6	405.4
75°	321.2	333.5	330.2	326.9	304.6
77.5°	229.5	244.4	236.1	236.9	218.0
80°	154.4	168.4	160.2	156.9	147.0
82.5°	98.2	104.0	102.4	100.7	91.6
85°	51.2	54.5	52.8	51.2	47.9
87.5°	19.8	21.5	19.8	19.8	18.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)