

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: P413129

Luminaire Tested: **22PD-70-PC3-L840**

Issue Date: 9/15/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P413129  
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-L840  
Description: 7000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

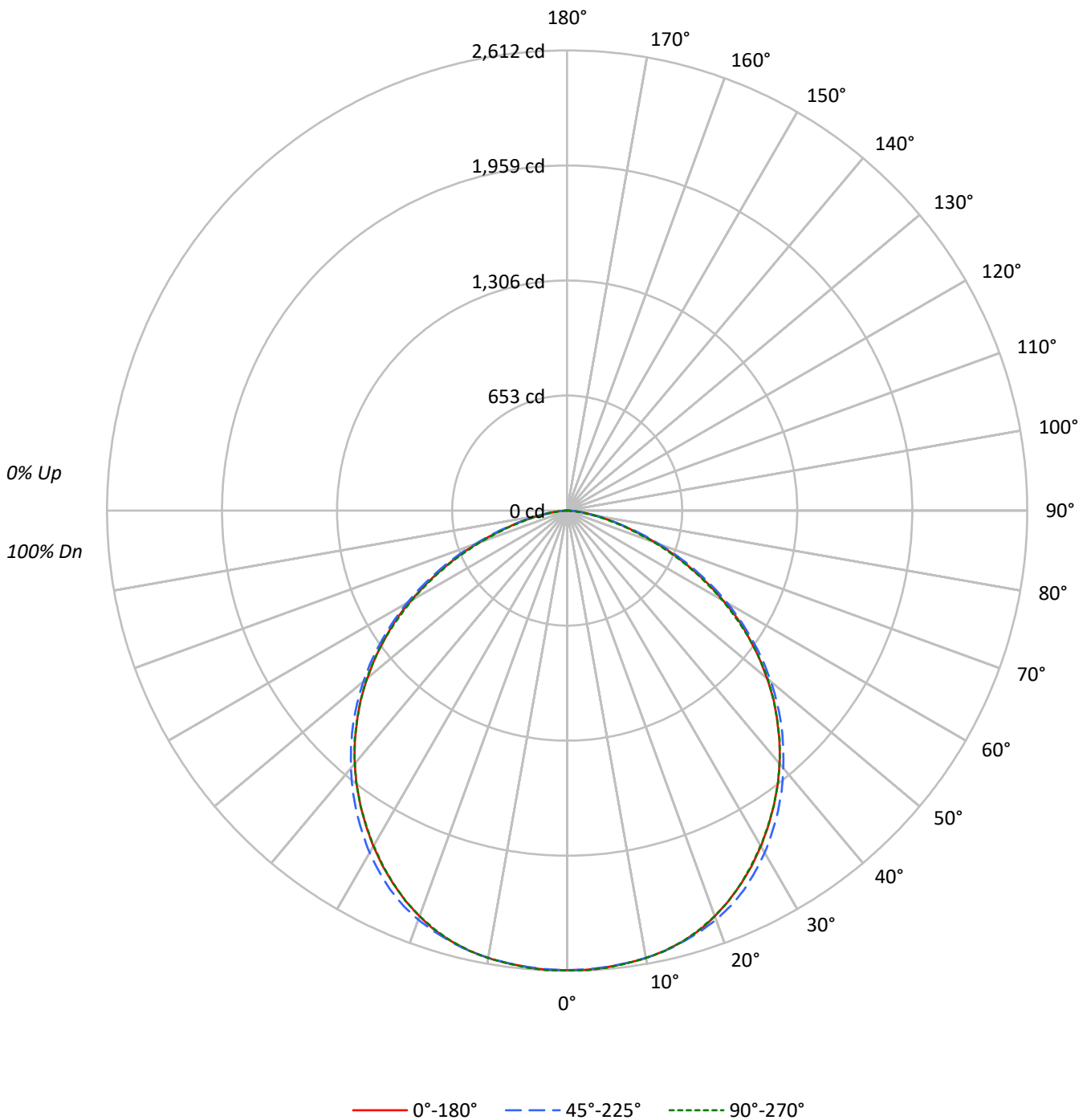
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7008.0 lumens  
Efficiency: N/A  
Efficacy: 111.2 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

TEST NUMBER: P413129

CATALOG NUMBER: 22PD-70-PC3-L840

### Luminous Intensity Polar Plot





TEST NUMBER: P413129

CATALOG NUMBER: 22PD-70-PC3-L840

**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°	7020	7020	7020
5°	7029	7024	7033
10°	7047	7044	7047
15°	7055	7064	7053
20°	7019	7076	7014
25°	6937	7051	6932
30°	6835	6969	6825
35°	6716	6850	6716
40°	6590	6707	6590
45°	6416	6543	6426
50°	6197	6319	6221
55°	5909	6026	5909
60°	5511	5649	5475
65°	4945	5119	4882
70°	4231	4380	4106
75°	3356	3451	3184
80°	2405	2495	2289
85°	1587	1639	1485



TEST NUMBER: P413129

CATALOG NUMBER: 22PD-70-PC3-L840

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	247.5	3.5
10°-20°	714.9	10.2
20°-30°	1084.6	15.5
30°-40°	1295.3	18.5
40°-50°	1317.3	18.8
50°-60°	1139.5	16.3
60°-70°	784.1	11.2
70°-80°	355.9	5.1
80°-90°	68.9	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°	2047.1	29.2
0°-40°	3342.4	47.7
0°-60°	5799.2	82.8
0°-90°	7008.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7008.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2609	2609	2609	2609	2609	
5°	2602	2600	2600	2600	2604	248
15°	2532	2534	2536	2532	2532	714
25°	2336	2357	2375	2353	2335	1076
35°	2044	2081	2085	2078	2044	1279
45°	1686	1717	1719	1718	1688	1300
55°	1260	1281	1284	1282	1260	1125
65°	777	798	804	797	767	771
75°	323	335	332	329	306	347
85°	51	55	53	51	48	67
90°	0	0	0	0	0	



TEST NUMBER: P413129

CATALOG NUMBER: 22PD-70-PC3-L840

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2608.6	2608.6	2608.6	2608.6	2608.6
2.5°	2608.6	2605.3	2606.2	2607.0	2612.0
5°	2602.0	2599.5	2600.3	2600.3	2603.7
7.5°	2591.2	2590.4	2590.4	2589.6	2592.1
10°	2578.8	2577.1	2577.9	2577.1	2578.8
12.5°	2559.7	2559.7	2560.5	2558.0	2559.7
15°	2532.3	2534.0	2535.6	2531.5	2531.5
17.5°	2497.5	2501.6	2505.8	2498.3	2494.1
20°	2451.0	2461.0	2470.9	2459.3	2449.3
22.5°	2397.1	2413.7	2428.6	2410.3	2397.1
25°	2336.5	2357.2	2374.7	2353.1	2334.8
27.5°	2271.0	2294.2	2310.8	2292.5	2267.6
30°	2199.6	2227.8	2242.7	2225.3	2196.3
32.5°	2123.3	2156.4	2165.6	2154.8	2121.6
35°	2044.4	2080.9	2085.1	2077.6	2044.4
37.5°	1962.3	1997.1	2000.5	1996.3	1962.3
40°	1876.0	1908.4	1909.2	1909.2	1876.0
42.5°	1783.9	1815.4	1815.4	1814.6	1786.4
45°	1686.0	1716.7	1719.2	1717.5	1688.5
47.5°	1588.9	1612.2	1616.3	1613.0	1587.3
50°	1480.2	1504.3	1509.3	1505.9	1486.0
52.5°	1372.4	1394.8	1399.7	1397.3	1374.9
55°	1259.5	1281.1	1284.4	1281.9	1259.5
57.5°	1150.8	1164.9	1168.2	1163.3	1135.1
60°	1023.9	1043.8	1049.6	1043.8	1017.2
62.5°	901.1	922.7	927.6	919.3	891.1
65°	776.6	798.2	804.0	797.4	766.7
67.5°	658.8	674.6	679.5	672.1	643.9
70°	537.7	557.6	556.7	546.8	521.9
72.5°	418.2	445.6	440.6	434.8	407.4
75°	322.8	335.2	331.9	328.6	306.2
77.5°	230.7	245.6	237.3	238.1	219.0
80°	155.2	169.3	161.0	157.6	147.7
82.5°	98.7	104.5	102.9	101.2	92.1
85°	51.4	54.8	53.1	51.4	48.1
87.5°	19.9	21.6	19.9	19.9	18.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)