

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: P412785

Luminaire Tested: **22PD-70-PP3-L830**

Issue Date: 9/15/2020



**Test Information**

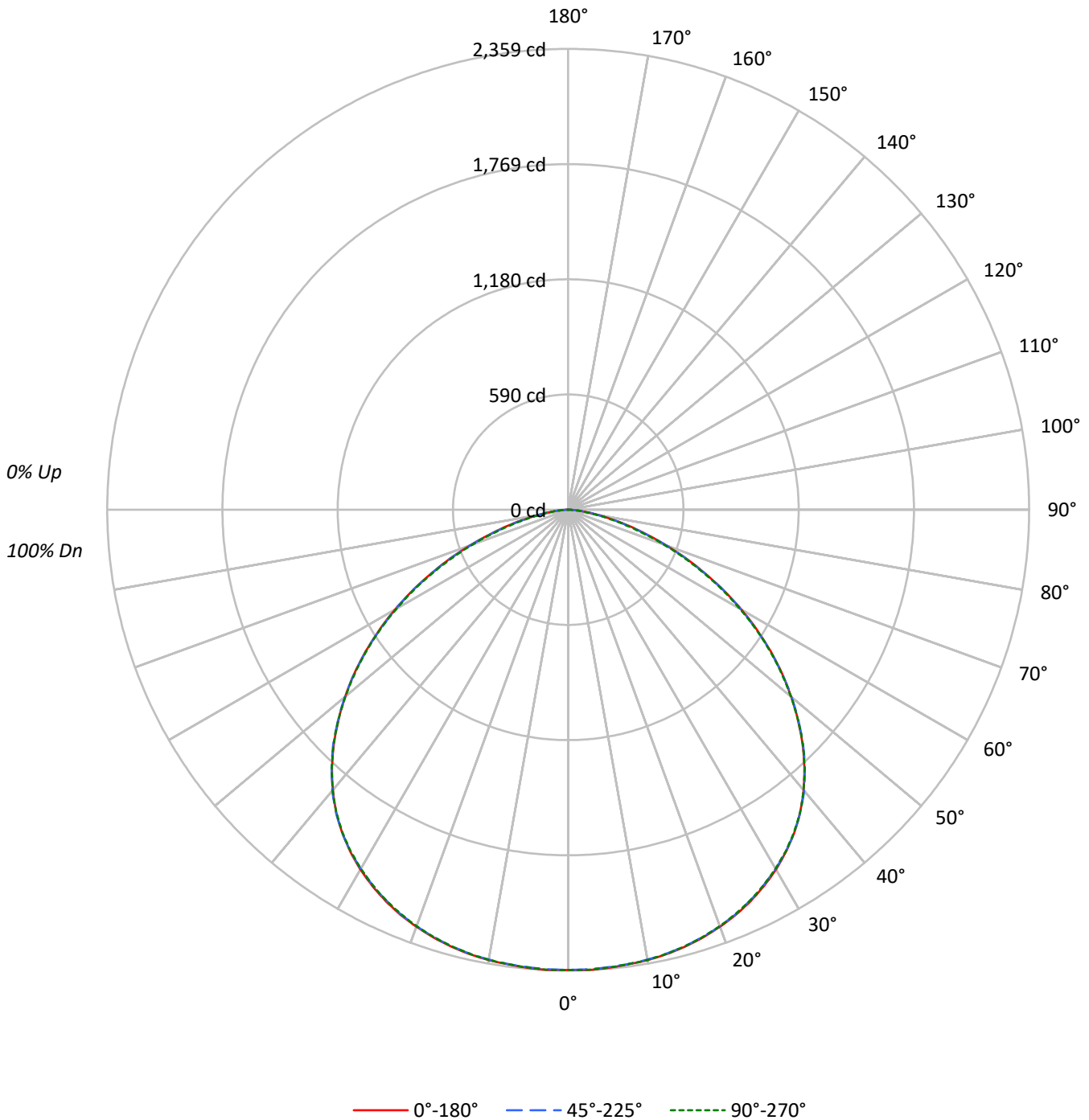
Test Method: LM-79-08  
Report Number: P412785  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-70-PP3-L830  
Description: 7000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6759.0 lumens  
Efficiency: N/A  
Efficacy: 107.3 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: P412785  
CATALOG NUMBER: 22PD-70-PP3-L830

### Luminous Intensity Polar Plot





TEST NUMBER: P412785

CATALOG NUMBER: 22PD-70-PP3-L830

**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°	6339	6339	6339
5°	6359	6351	6355
10°	6399	6390	6394
15°	6449	6443	6443
20°	6505	6499	6496
25°	6563	6551	6551
30°	6609	6597	6594
35°	6628	6628	6620
40°	6584	6598	6584
45°	6454	6472	6463
50°	6237	6247	6230
55°	5938	5923	5912
60°	5512	5499	5457
65°	4923	4918	4863
70°	4209	4183	4091
75°	3353	3255	3157
80°	2390	2340	2219
85°	1553	1553	1507



TEST NUMBER: P412785

CATALOG NUMBER: 22PD-70-PP3-L830

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	224.0	3.3
10°-20°	653.5	9.7
20°-30°	1017.6	15.1
30°-40°	1259.4	18.6
40°-50°	1305.9	19.3
50°-60°	1125.6	16.7
60°-70°	765.3	11.3
70°-80°	342.5	5.1
80°-90°	65.2	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°	1895.1	28.0
0°-40°	3154.5	46.7
0°-60°	5586.1	82.6
0°-90°	6759.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6759.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2356	2356	2356	2356	2356	
5°	2354	2350	2351	2350	2353	224
15°	2315	2311	2313	2311	2313	654
25°	2210	2207	2206	2206	2206	1019
35°	2018	2015	2018	2014	2015	1260
45°	1696	1694	1701	1697	1698	1305
55°	1266	1261	1262	1260	1260	1128
65°	773	780	772	770	764	768
75°	322	323	313	312	304	347
85°	50	52	50	49	49	66
90°	0	0	0	0	0	



TEST NUMBER: P412785

CATALOG NUMBER: 22PD-70-PP3-L830

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2355.8	2355.8	2355.8	2355.8	2355.8
2.5°	2359.0	2354.2	2354.2	2355.0	2357.4
5°	2354.2	2349.5	2351.1	2350.3	2352.7
7.5°	2347.9	2344.0	2346.4	2344.8	2346.4
10°	2341.7	2337.7	2338.5	2337.7	2340.1
12.5°	2330.6	2325.9	2327.5	2327.5	2328.3
15°	2314.9	2311.0	2312.6	2311.0	2312.6
17.5°	2296.0	2291.3	2292.1	2291.3	2292.9
20°	2271.6	2268.5	2269.3	2267.7	2268.5
22.5°	2244.1	2240.2	2241.0	2239.4	2239.4
25°	2210.3	2207.1	2206.4	2205.6	2206.4
27.5°	2171.0	2167.0	2167.0	2166.2	2166.2
30°	2126.9	2123.0	2123.0	2122.2	2122.2
32.5°	2075.0	2073.4	2074.2	2072.6	2071.9
35°	2017.6	2015.2	2017.6	2014.4	2015.2
37.5°	1950.7	1947.6	1952.3	1949.2	1949.9
40°	1874.4	1872.9	1878.4	1876.0	1874.4
42.5°	1789.5	1789.5	1791.8	1792.6	1791.0
45°	1695.9	1694.3	1700.6	1696.7	1698.2
47.5°	1595.2	1592.8	1597.5	1596.8	1596.0
50°	1489.8	1488.2	1492.1	1488.2	1488.2
52.5°	1380.5	1379.7	1380.5	1376.5	1375.7
55°	1265.6	1260.9	1262.5	1260.1	1260.1
57.5°	1146.0	1140.5	1141.3	1140.5	1141.3
60°	1024.1	1022.6	1021.8	1017.8	1013.9
62.5°	899.1	900.6	899.8	894.3	890.4
65°	773.2	779.5	772.4	770.1	763.8
67.5°	654.4	656.8	652.1	646.6	639.5
70°	534.9	539.6	531.7	526.2	519.9
72.5°	420.8	424.0	416.9	413.7	405.9
75°	322.5	323.3	313.1	311.5	303.6
77.5°	229.7	232.8	225.0	225.0	217.1
80°	154.2	159.7	151.0	148.7	143.2
82.5°	96.7	97.5	95.2	92.8	90.5
85°	50.3	51.9	50.3	48.8	48.8
87.5°	18.9	19.7	18.9	18.1	18.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)