

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: P412789

Luminaire Tested: **22PD-70-PP3-L927**

Issue Date: 9/15/2020



**Test Information**

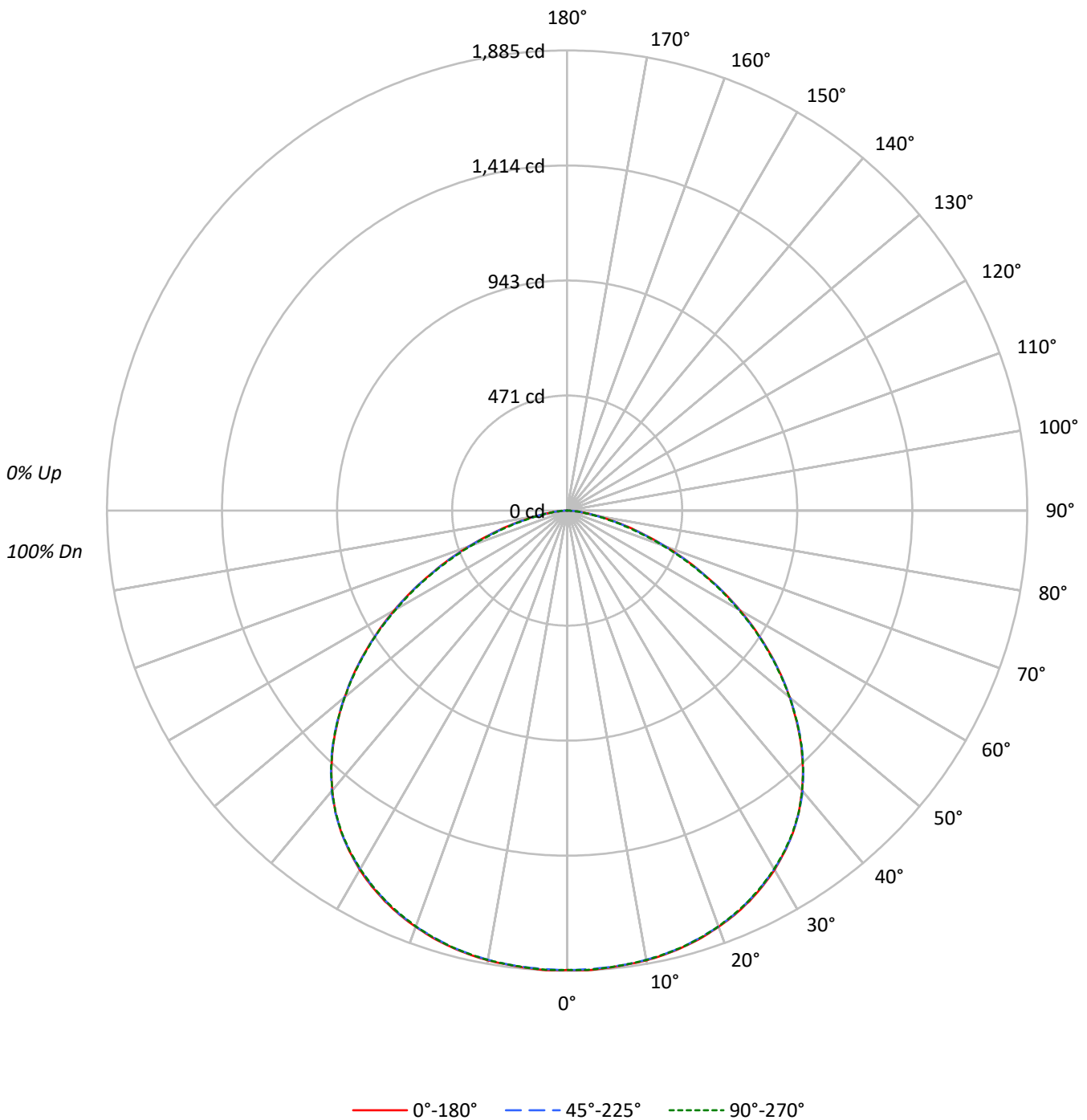
Test Method: LM-79-08  
Report Number: P412789  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-70-PP3-L927  
Description: 7000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5400.0 lumens  
Efficiency: N/A  
Efficacy: 85.7 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: P412789  
CATALOG NUMBER: 22PD-70-PP3-L927

### Luminous Intensity Polar Plot





TEST NUMBER: P412789

CATALOG NUMBER: 22PD-70-PP3-L927

**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°	5065	5065	5065
5°	5081	5074	5077
10°	5112	5105	5109
15°	5153	5147	5147
20°	5197	5192	5190
25°	5243	5234	5234
30°	5280	5270	5268
35°	5295	5295	5289
40°	5260	5272	5260
45°	5156	5171	5163
50°	4983	4991	4978
55°	4744	4732	4723
60°	4404	4393	4359
65°	3933	3929	3885
70°	3362	3342	3268
75°	2679	2600	2522
80°	1909	1870	1773
85°	1241	1241	1204



TEST NUMBER: P412789

CATALOG NUMBER: 22PD-70-PP3-L927

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	179.0	3.3
10°-20°	522.1	9.7
20°-30°	813.0	15.1
30°-40°	1006.2	18.6
40°-50°	1043.4	19.3
50°-60°	899.3	16.7
60°-70°	611.4	11.3
70°-80°	273.6	5.1
80°-90°	52.1	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°	1514.1	28.0
0°-40°	2520.2	46.7
0°-60°	4462.9	82.6
0°-90°	5400.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5400.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1882	1882	1882	1882	1882	
5°	1881	1877	1878	1878	1880	179
15°	1850	1846	1848	1846	1848	523
25°	1766	1763	1763	1762	1763	814
35°	1612	1610	1612	1609	1610	1007
45°	1355	1354	1359	1356	1357	1043
55°	1011	1007	1009	1007	1007	902
65°	618	623	617	615	610	613
75°	258	258	250	249	243	277
85°	40	42	40	39	39	53
90°	0	0	0	0	0	



TEST NUMBER: P412789

CATALOG NUMBER: 22PD-70-PP3-L927

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1882.1	1882.1	1882.1	1882.1	1882.1
2.5°	1884.7	1880.9	1880.9	1881.5	1883.4
5°	1880.9	1877.1	1878.4	1877.7	1879.6
7.5°	1875.9	1872.7	1874.6	1873.3	1874.6
10°	1870.8	1867.7	1868.3	1867.7	1869.6
12.5°	1862.0	1858.3	1859.5	1859.5	1860.1
15°	1849.5	1846.3	1847.6	1846.3	1847.6
17.5°	1834.4	1830.6	1831.2	1830.6	1831.9
20°	1814.9	1812.4	1813.0	1811.8	1812.4
22.5°	1792.9	1789.8	1790.4	1789.1	1789.1
25°	1765.9	1763.4	1762.7	1762.1	1762.7
27.5°	1734.5	1731.3	1731.3	1730.7	1730.7
30°	1699.3	1696.1	1696.1	1695.5	1695.5
32.5°	1657.8	1656.5	1657.2	1655.9	1655.3
35°	1611.9	1610.0	1611.9	1609.4	1610.0
37.5°	1558.5	1556.0	1559.8	1557.2	1557.9
40°	1497.5	1496.3	1500.7	1498.8	1497.5
42.5°	1429.7	1429.7	1431.6	1432.2	1430.9
45°	1354.9	1353.6	1358.7	1355.5	1356.8
47.5°	1274.5	1272.6	1276.3	1275.7	1275.1
50°	1190.2	1189.0	1192.1	1189.0	1189.0
52.5°	1102.9	1102.3	1102.9	1099.7	1099.1
55°	1011.1	1007.4	1008.6	1006.7	1006.7
57.5°	915.6	911.2	911.8	911.2	911.8
60°	818.2	817.0	816.3	813.2	810.0
62.5°	718.3	719.5	718.9	714.5	711.4
65°	617.7	622.8	617.1	615.2	610.2
67.5°	522.9	524.7	521.0	516.6	510.9
70°	427.3	431.1	424.8	420.4	415.4
72.5°	336.2	338.7	333.1	330.6	324.3
75°	257.7	258.3	250.1	248.9	242.6
77.5°	183.5	186.0	179.7	179.7	173.4
80°	123.2	127.6	120.7	118.8	114.4
82.5°	77.3	77.9	76.0	74.2	72.3
85°	40.2	41.5	40.2	39.0	39.0
87.5°	15.1	15.7	15.1	14.5	15.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)