

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: P412699

Luminaire Tested: **22PD-20-PP3-L927**

Issue Date: 9/15/2020



**Test Information**

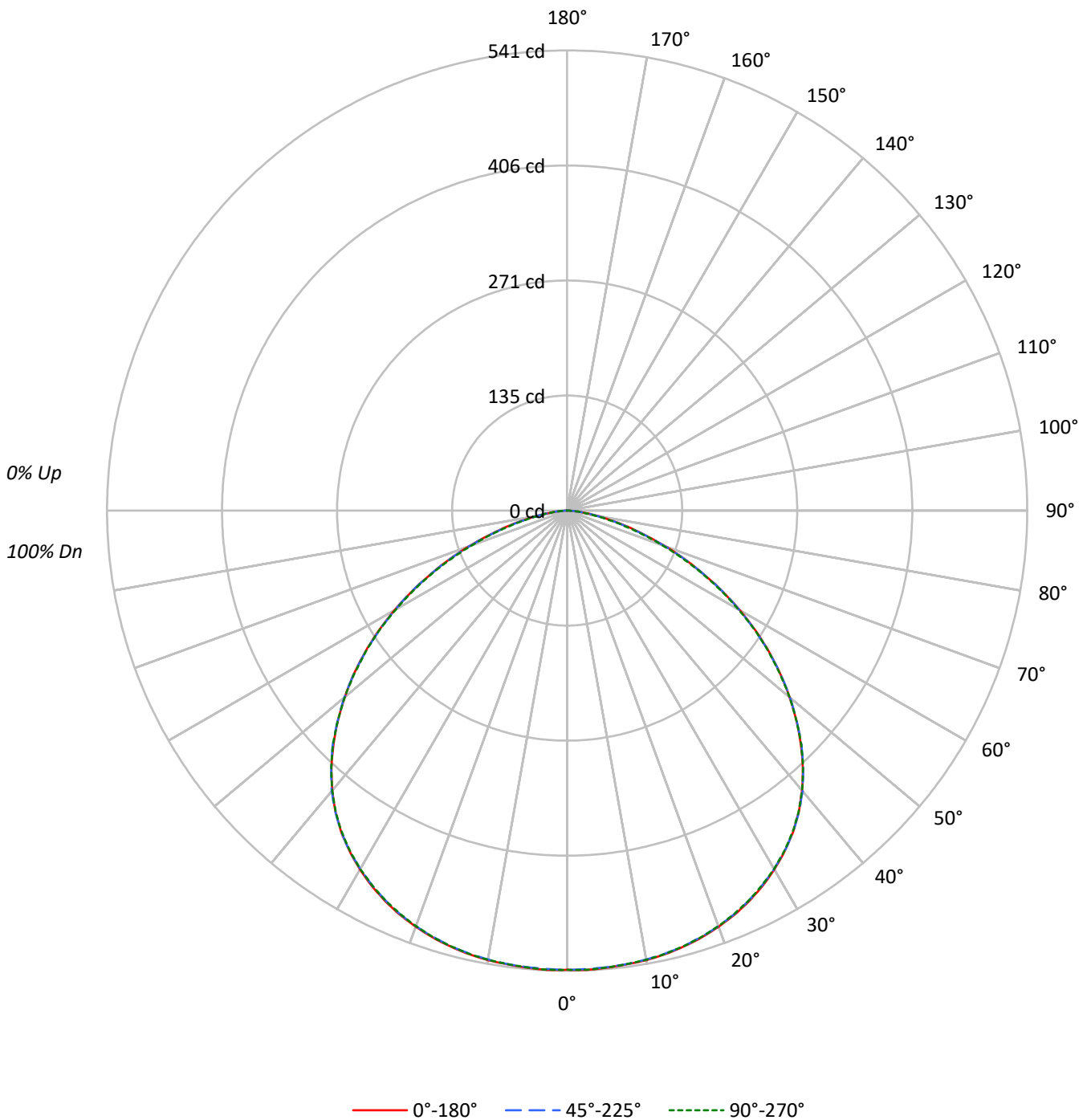
Test Method: LM-79-08  
Report Number: P412699  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-20-PP3-L927  
Description: 2000 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: 1549.0 lumens  
Efficiency: N/A  
Efficacy: 91.7 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): 16.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P412699  
CATALOG NUMBER: 22PD-20-PP3-L927

### Luminous Intensity Polar Plot





TEST NUMBER: P412699

CATALOG NUMBER: 22PD-20-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	51	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°	1453	1453	1453
5°	1457	1455	1457
10°	1467	1464	1465
15°	1478	1477	1477
20°	1491	1489	1489
25°	1504	1501	1501
30°	1514	1512	1511
35°	1519	1519	1517
40°	1509	1512	1509
45°	1479	1483	1481
50°	1429	1432	1428
55°	1361	1357	1355
60°	1263	1260	1251
65°	1128	1127	1114
70°	965	959	938
75°	768	745	724
80°	547	536	508
85°	355	355	346



TEST NUMBER: P412699

CATALOG NUMBER: 22PD-20-PP3-L927

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.3	3.3
10°-20°	149.8	9.7
20°-30°	233.2	15.1
30°-40°	288.6	18.6
40°-50°	299.3	19.3
50°-60°	258.0	16.7
60°-70°	175.4	11.3
70°-80°	78.5	5.1
80°-90°	14.9	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°	434.3	28.0
0°-40°	722.9	46.7
0°-60°	1280.2	82.6
0°-90°	1549.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1549.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	540	540	540	540	540	
5°	540	538	539	539	539	51
15°	530	530	530	530	530	150
25°	506	506	506	506	506	234
35°	462	462	462	462	462	289
45°	389	388	390	389	389	299
55°	290	289	289	289	289	259
65°	177	179	177	176	175	176
75°	74	74	72	71	70	79
85°	12	12	12	11	11	15
90°	0	0	0	0	0	



TEST NUMBER: P412699

CATALOG NUMBER: 22PD-20-PP3-L927

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	539.9	539.9	539.9	539.9	539.9
2.5°	540.6	539.5	539.5	539.7	540.3
5°	539.5	538.5	538.8	538.6	539.2
7.5°	538.1	537.2	537.7	537.4	537.7
10°	536.7	535.7	535.9	535.7	536.3
12.5°	534.1	533.0	533.4	533.4	533.6
15°	530.5	529.6	530.0	529.6	530.0
17.5°	526.2	525.1	525.3	525.1	525.5
20°	520.6	519.9	520.1	519.7	519.9
22.5°	514.3	513.4	513.6	513.2	513.2
25°	506.5	505.8	505.6	505.5	505.6
27.5°	497.5	496.6	496.6	496.5	496.5
30°	487.4	486.5	486.5	486.4	486.4
32.5°	475.5	475.2	475.4	475.0	474.8
35°	462.4	461.8	462.4	461.7	461.8
37.5°	447.1	446.3	447.4	446.7	446.9
40°	429.6	429.2	430.5	429.9	429.6
42.5°	410.1	410.1	410.6	410.8	410.5
45°	388.7	388.3	389.7	388.8	389.2
47.5°	365.6	365.0	366.1	365.9	365.8
50°	341.4	341.1	342.0	341.1	341.1
52.5°	316.4	316.2	316.4	315.5	315.3
55°	290.0	289.0	289.3	288.8	288.8
57.5°	262.6	261.4	261.6	261.4	261.6
60°	234.7	234.3	234.2	233.3	232.4
62.5°	206.0	206.4	206.2	205.0	204.1
65°	177.2	178.6	177.0	176.5	175.0
67.5°	150.0	150.5	149.4	148.2	146.6
70°	122.6	123.7	121.9	120.6	119.2
72.5°	96.4	97.2	95.5	94.8	93.0
75°	73.9	74.1	71.7	71.4	69.6
77.5°	52.6	53.4	51.6	51.6	49.8
80°	35.3	36.6	34.6	34.1	32.8
82.5°	22.2	22.4	21.8	21.3	20.7
85°	11.5	11.9	11.5	11.2	11.2
87.5°	4.3	4.5	4.3	4.1	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)