

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: P413041

Luminaire Tested: **22PD-20-PC3-L927**

Issue Date: 9/15/2020



**Test Information**

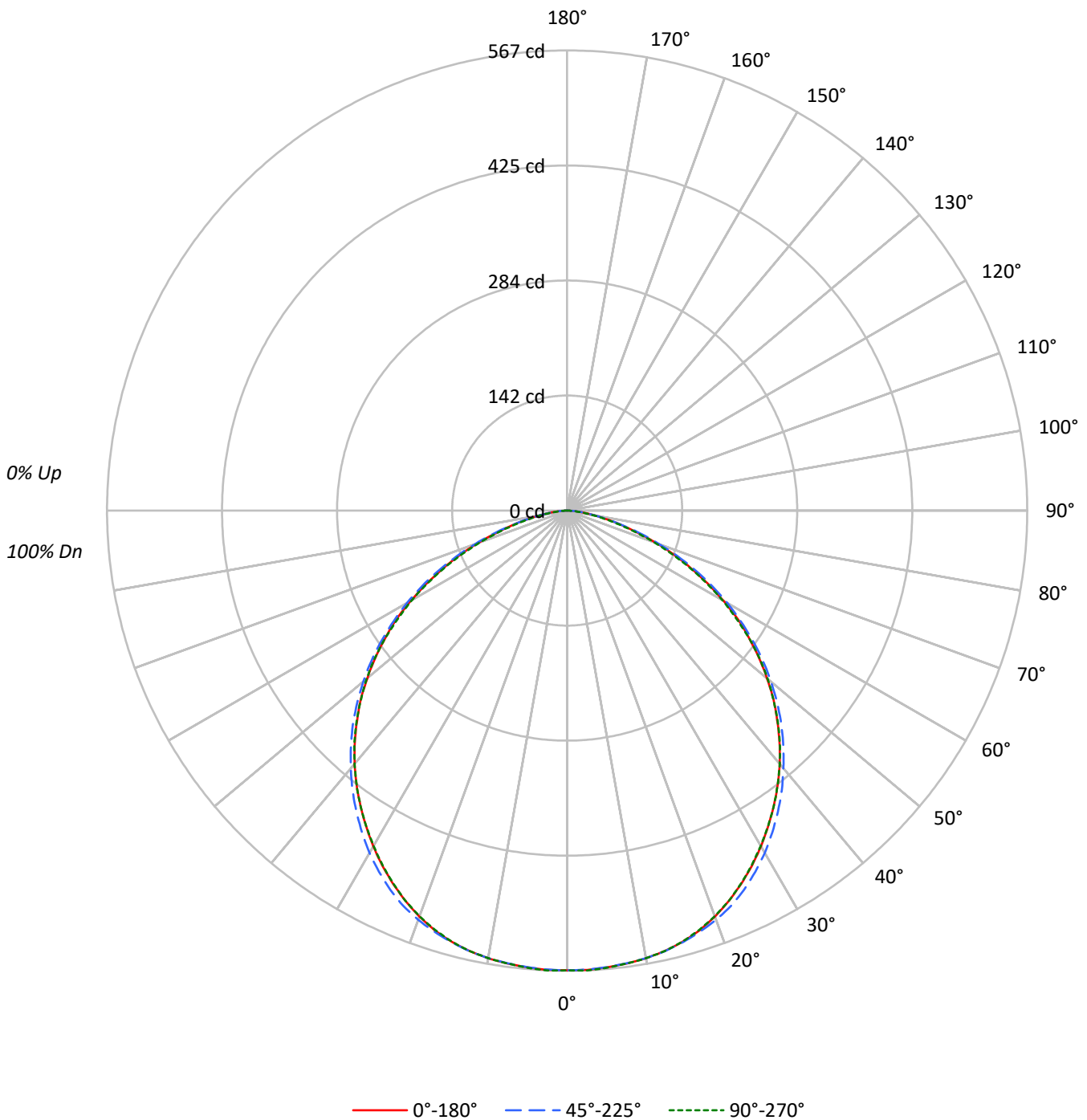
Test Method: LM-79-08  
Report Number: P413041  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-20-PC3-L927  
Description: 2000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1522.0 lumens  
Efficiency: N/A  
Efficacy: 90.1 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): 16.9  
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°	1524	1524	1524
5°	1526	1525	1528
10°	1530	1530	1530
15°	1532	1534	1532
20°	1524	1537	1523
25°	1507	1531	1506
30°	1484	1514	1482
35°	1459	1487	1459
40°	1431	1456	1431
45°	1394	1421	1396
50°	1346	1372	1351
55°	1283	1308	1283
60°	1197	1227	1189
65°	1074	1112	1060
70°	919	951	891
75°	729	750	691
80°	522	542	497
85°	346	355	324



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.8	3.5
10°-20°	155.3	10.2
20°-30°	235.6	15.5
30°-40°	281.3	18.5
40°-50°	286.1	18.8
50°-60°	247.5	16.3
60°-70°	170.3	11.2
70°-80°	77.3	5.1
80°-90°	15.0	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°	444.6	29.2
0°-40°	725.9	47.7
0°-60°	1259.5	82.7
0°-90°	1522.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1522.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	566	566	566	566	566	
5°	565	565	565	565	566	54
15°	550	550	551	550	550	155
25°	507	512	516	511	507	234
35°	444	452	453	451	444	278
45°	366	373	373	373	367	282
55°	274	278	279	278	274	244
65°	169	173	175	173	166	167
75°	70	73	72	71	66	75
85°	11	12	12	11	10	15
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	566.5	566.5	566.5	566.5	566.5
2.5°	566.5	565.8	566.0	566.2	567.3
5°	565.1	564.6	564.7	564.7	565.5
7.5°	562.8	562.6	562.6	562.4	562.9
10°	560.1	559.7	559.9	559.7	560.1
12.5°	555.9	555.9	556.1	555.6	555.9
15°	550.0	550.3	550.7	549.8	549.8
17.5°	542.4	543.3	544.2	542.6	541.7
20°	532.3	534.5	536.6	534.1	531.9
22.5°	520.6	524.2	527.4	523.5	520.6
25°	507.4	511.9	515.7	511.0	507.1
27.5°	493.2	498.3	501.9	497.9	492.5
30°	477.7	483.8	487.1	483.3	477.0
32.5°	461.1	468.3	470.3	468.0	460.8
35°	444.0	451.9	452.8	451.2	444.0
37.5°	426.2	433.7	434.5	433.6	426.2
40°	407.4	414.5	414.6	414.6	407.4
42.5°	387.4	394.3	394.3	394.1	388.0
45°	366.2	372.8	373.4	373.0	366.7
47.5°	345.1	350.1	351.0	350.3	344.7
50°	321.5	326.7	327.8	327.1	322.7
52.5°	298.0	302.9	304.0	303.5	298.6
55°	273.5	278.2	278.9	278.4	273.5
57.5°	249.9	253.0	253.7	252.6	246.5
60°	222.4	226.7	228.0	226.7	220.9
62.5°	195.7	200.4	201.5	199.7	193.5
65°	168.7	173.4	174.6	173.2	166.5
67.5°	143.1	146.5	147.6	146.0	139.8
70°	116.8	121.1	120.9	118.8	113.3
72.5°	90.8	96.8	95.7	94.4	88.5
75°	70.1	72.8	72.1	71.4	66.5
77.5°	50.1	53.3	51.5	51.7	47.6
80°	33.7	36.8	35.0	34.2	32.1
82.5°	21.4	22.7	22.3	22.0	20.0
85°	11.2	11.9	11.5	11.2	10.5
87.5°	4.3	4.7	4.3	4.3	4.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)