

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: P413095

Luminaire Tested: **22PD-50-PC3-L927**

Issue Date: 9/15/2020



**Test Information**

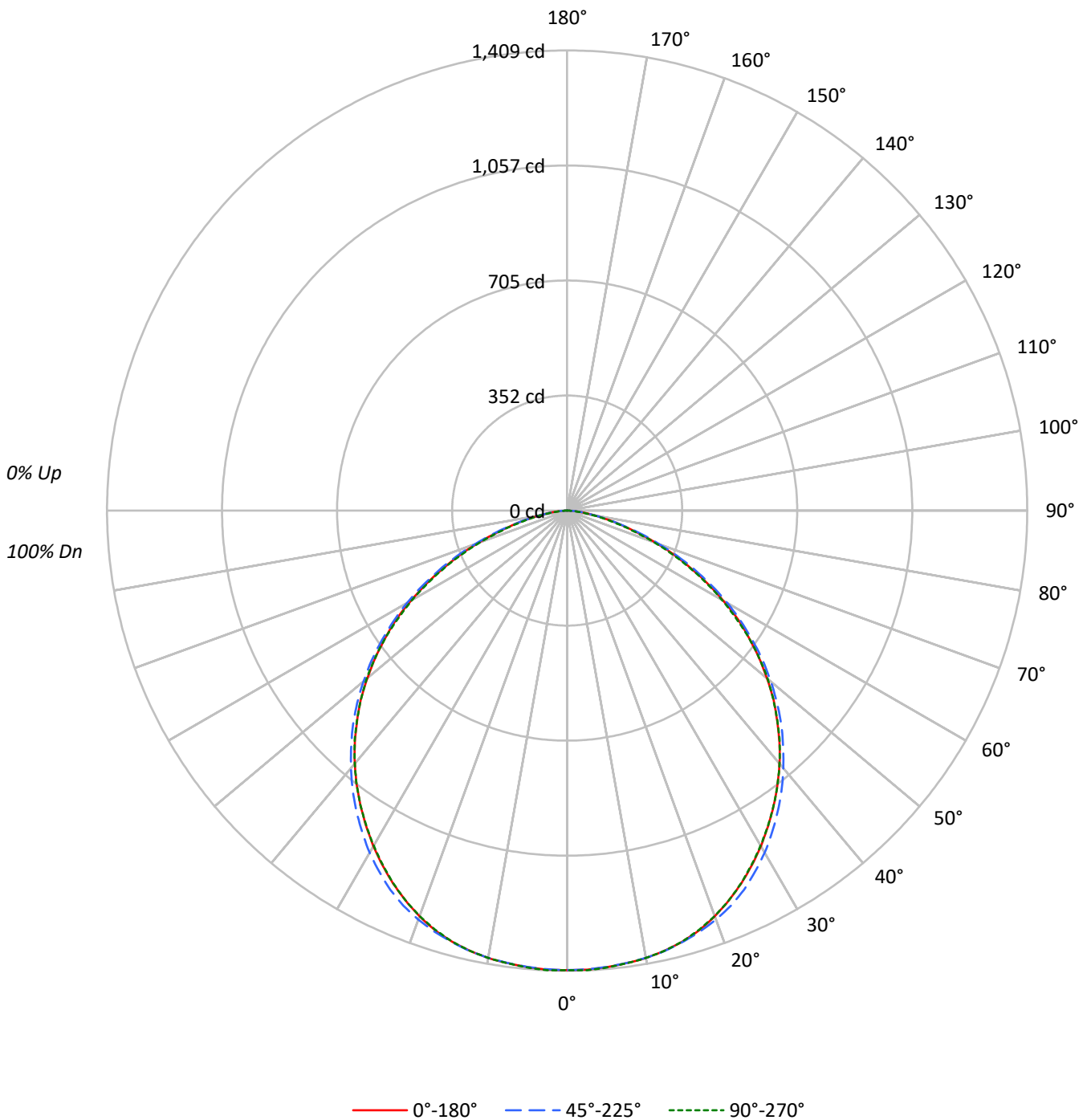
Test Method: LM-79-08  
Report Number: P413095  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-50-PC3-L927  
Description: 5000 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: 3780.0 lumens  
Efficiency: N/A  
Efficacy: 88.9 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): 42.5  
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°	3786	3786	3786
5°	3791	3789	3794
10°	3801	3800	3801
15°	3805	3810	3804
20°	3786	3817	3783
25°	3742	3803	3739
30°	3686	3759	3681
35°	3622	3695	3622
40°	3555	3618	3555
45°	3461	3529	3466
50°	3342	3408	3355
55°	3187	3250	3187
60°	2972	3047	2953
65°	2667	2762	2633
70°	2282	2363	2215
75°	1810	1861	1717
80°	1297	1345	1235
85°	855	883	803



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.5	3.5
10°-20°	385.6	10.2
20°-30°	585.0	15.5
30°-40°	698.7	18.5
40°-50°	710.6	18.8
50°-60°	614.6	16.3
60°-70°	422.9	11.2
70°-80°	191.9	5.1
80°-90°	37.1	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°	1104.2	29.2
0°-40°	1802.8	47.7
0°-60°	3128.0	82.8
0°-90°	3780.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3780.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1407	1407	1407	1407	1407	
5°	1404	1402	1403	1403	1404	134
15°	1366	1367	1368	1365	1365	385
25°	1260	1272	1281	1269	1259	580
35°	1103	1122	1125	1121	1103	690
45°	909	926	927	926	911	701
55°	679	691	693	691	679	607
65°	419	430	434	430	414	416
75°	174	181	179	177	165	187
85°	28	30	29	28	26	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1407.1	1407.1	1407.1	1407.1	1407.1
2.5°	1407.1	1405.3	1405.7	1406.2	1408.9
5°	1403.5	1402.1	1402.6	1402.6	1404.4
7.5°	1397.7	1397.2	1397.2	1396.8	1398.1
10°	1391.0	1390.1	1390.5	1390.1	1391.0
12.5°	1380.7	1380.7	1381.1	1379.8	1380.7
15°	1365.9	1366.8	1367.7	1365.4	1365.4
17.5°	1347.1	1349.3	1351.6	1347.5	1345.3
20°	1322.0	1327.4	1332.8	1326.5	1321.1
22.5°	1292.9	1301.9	1309.9	1300.1	1292.9
25°	1260.3	1271.5	1280.9	1269.2	1259.4
27.5°	1224.9	1237.4	1246.4	1236.5	1223.1
30°	1186.4	1201.6	1209.7	1200.3	1184.6
32.5°	1145.3	1163.2	1168.1	1162.3	1144.4
35°	1102.7	1122.4	1124.7	1120.6	1102.7
37.5°	1058.4	1077.2	1079.0	1076.8	1058.4
40°	1011.9	1029.3	1029.8	1029.8	1011.9
42.5°	962.2	979.2	979.2	978.8	963.6
45°	909.4	926.0	927.3	926.4	910.7
47.5°	857.0	869.6	871.8	870.0	856.1
50°	798.4	811.4	814.1	812.3	801.5
52.5°	740.2	752.3	755.0	753.7	741.6
55°	679.4	691.0	692.8	691.4	679.4
57.5°	620.7	628.3	630.1	627.4	612.2
60°	552.3	563.0	566.1	563.0	548.7
62.5°	486.0	497.7	500.3	495.9	480.7
65°	418.9	430.5	433.7	430.1	413.5
67.5°	355.3	363.8	366.5	362.5	347.3
70°	290.0	300.7	300.3	294.9	281.5
72.5°	225.6	240.3	237.6	234.5	219.7
75°	174.1	180.8	179.0	177.2	165.1
77.5°	124.4	132.5	128.0	128.4	118.2
80°	83.7	91.3	86.8	85.0	79.7
82.5°	53.3	56.4	55.5	54.6	49.7
85°	27.7	29.5	28.6	27.7	26.0
87.5°	10.7	11.6	10.7	10.7	9.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)