

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: P413077

Luminaire Tested: **22PD-40-PC3-L927**

Issue Date: 9/15/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P413077  
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-40-PC3-L927  
Description: 4000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS  
Light Source: -  
Ballast/Driver: -

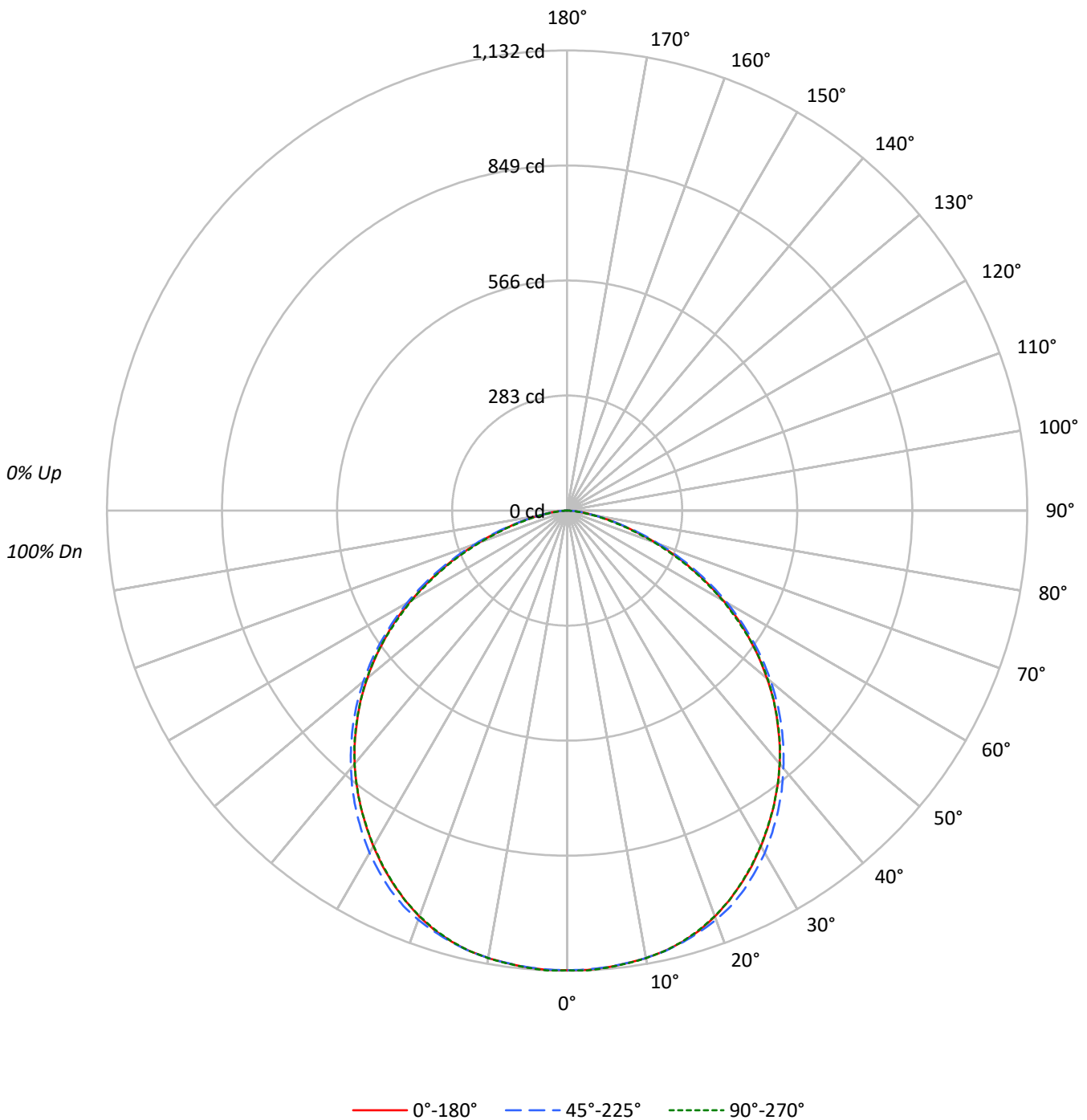
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3038.0 lumens  
Efficiency: N/A  
Efficacy: 89.9 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): 33.8  
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

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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°	3043	3043	3043
5°	3047	3045	3049
10°	3055	3054	3055
15°	3058	3062	3057
20°	3043	3068	3041
25°	3007	3056	3005
30°	2963	3021	2958
35°	2912	2969	2912
40°	2857	2907	2857
45°	2782	2836	2786
50°	2686	2739	2697
55°	2562	2612	2562
60°	2389	2449	2373
65°	2144	2219	2117
70°	1834	1899	1780
75°	1455	1496	1380
80°	1043	1082	992
85°	689	710	645



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.3	3.5
10°-20°	309.9	10.2
20°-30°	470.2	15.5
30°-40°	561.5	18.5
40°-50°	571.1	18.8
50°-60°	494.0	16.3
60°-70°	339.9	11.2
70°-80°	154.3	5.1
80°-90°	29.9	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°	887.4	29.2
0°-40°	1448.9	47.7
0°-60°	2514.0	82.8
0°-90°	3038.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3038.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1131	1131	1131	1131	1131	
5°	1128	1127	1127	1127	1129	107
15°	1098	1098	1099	1097	1097	310
25°	1013	1022	1029	1020	1012	467
35°	886	902	904	901	886	554
45°	731	744	745	745	732	564
55°	546	555	557	556	546	488
65°	337	346	348	346	332	334
75°	140	145	144	142	133	150
85°	22	24	23	22	21	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1130.9	1130.9	1130.9	1130.9	1130.9
2.5°	1130.9	1129.4	1129.8	1130.1	1132.3
5°	1128.0	1126.9	1127.3	1127.3	1128.7
7.5°	1123.3	1122.9	1122.9	1122.6	1123.7
10°	1117.9	1117.2	1117.6	1117.2	1117.9
12.5°	1109.6	1109.6	1110.0	1108.9	1109.6
15°	1097.8	1098.5	1099.2	1097.4	1097.4
17.5°	1082.7	1084.5	1086.3	1083.0	1081.2
20°	1062.5	1066.8	1071.2	1066.1	1061.8
22.5°	1039.1	1046.3	1052.8	1044.9	1039.1
25°	1012.9	1021.9	1029.4	1020.1	1012.2
27.5°	984.5	994.5	1001.7	993.8	983.0
30°	953.5	965.8	972.2	964.7	952.1
32.5°	920.4	934.8	938.8	934.1	919.7
35°	886.3	902.1	903.9	900.7	886.3
37.5°	850.7	865.8	867.2	865.4	850.7
40°	813.3	827.3	827.6	827.6	813.3
42.5°	773.3	787.0	787.0	786.6	774.4
45°	730.9	744.2	745.3	744.6	732.0
47.5°	688.8	698.9	700.7	699.2	688.1
50°	641.7	652.1	654.3	652.8	644.2
52.5°	594.9	604.6	606.8	605.7	596.0
55°	546.0	555.4	556.8	555.7	546.0
57.5°	498.9	505.0	506.4	504.3	492.1
60°	443.9	452.5	455.0	452.5	441.0
62.5°	390.6	400.0	402.1	398.5	386.3
65°	336.7	346.0	348.5	345.7	332.4
67.5°	285.6	292.4	294.6	291.3	279.1
70°	233.1	241.7	241.4	237.0	226.2
72.5°	181.3	193.2	191.0	188.5	176.6
75°	139.9	145.3	143.9	142.4	132.7
77.5°	100.0	106.5	102.9	103.2	95.0
80°	67.3	73.4	69.8	68.3	64.0
82.5°	42.8	45.3	44.6	43.9	39.9
85°	22.3	23.7	23.0	22.3	20.9
87.5°	8.6	9.4	8.6	8.6	7.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)