

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: P412496

Luminaire Tested: **24PD-30-PB1-L950**

Issue Date: 9/15/2020



**Test Information**

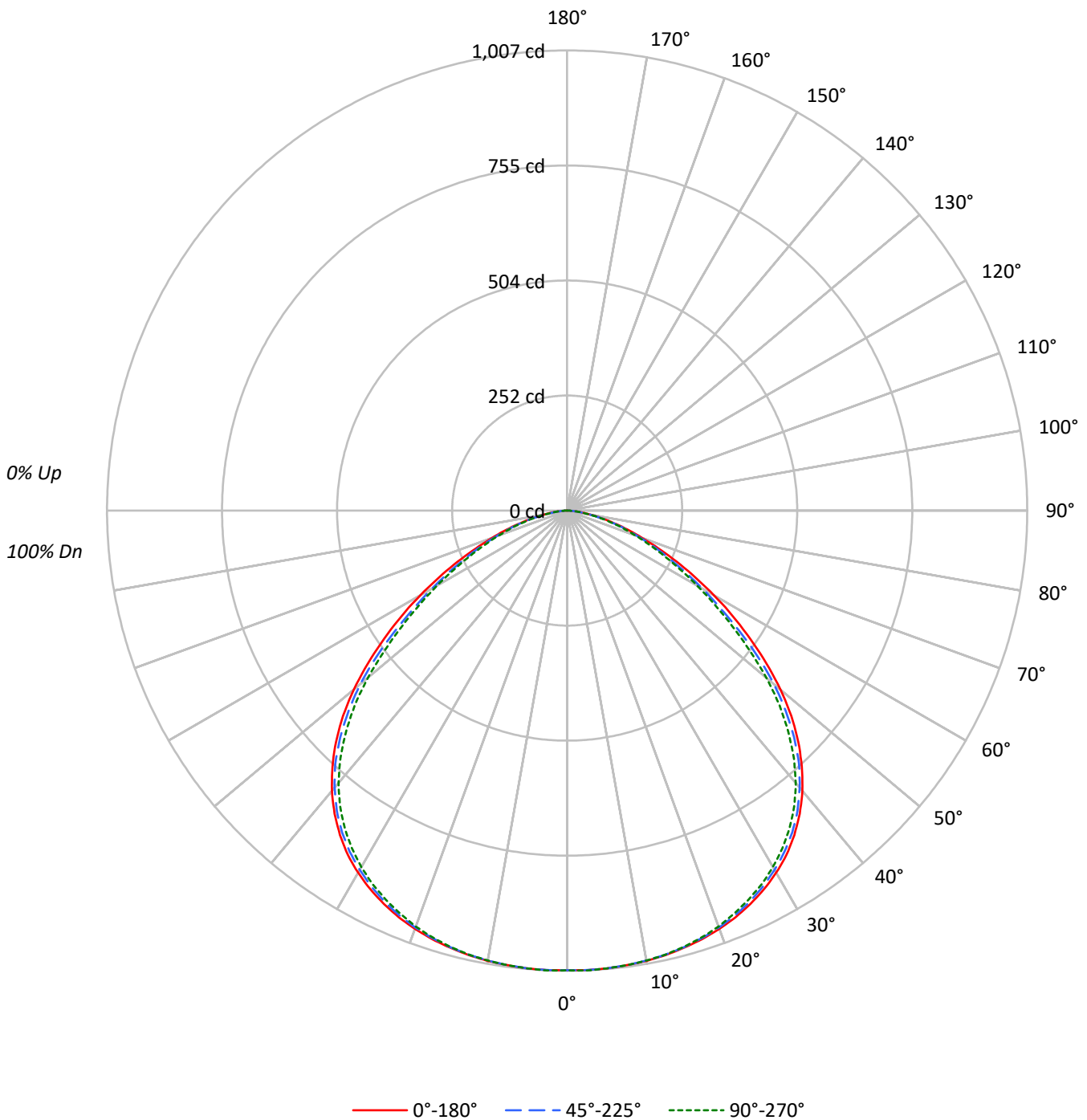
Test Method: LM-79-08  
Report Number: P412496  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-45)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-30-PB1-L950  
Description: 3000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 5000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2677.0 lumens  
Efficiency: N/A  
Efficacy: 121.7 lumens/watt  
Spacing Criteria (0/90/45): 1.34 / 1.32 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 22  
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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	70	59	51	45	57	50	44	55	49	44	54	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	39	33	29	27

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1354	1354	1354
5°	1358	1358	1358
10°	1367	1366	1366
15°	1379	1378	1377
20°	1395	1390	1387
25°	1410	1402	1395
30°	1422	1410	1399
35°	1423	1411	1394
40°	1407	1391	1367
45°	1361	1336	1302
50°	1276	1237	1192
55°	1147	1079	1034
60°	999	919	884
65°	840	777	744
70°	685	650	624
75°	549	530	507
80°	422	388	378
85°	264	255	255



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.8	3.6
10°-20°	279.6	10.4
20°-30°	435.6	16.3
30°-40°	535.8	20.0
40°-50°	538.2	20.1
50°-60°	414.8	15.5
60°-70°	246.2	9.2
70°-80°	109.6	4.1
80°-90°	21.4	0.8
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°	810.9	30.3
0°-40°	1346.7	50.3
0°-60°	2299.7	85.9
0°-90°	2677.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2677.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1006	1006	1006	1006	1006	
5°	1006	1006	1006	1004	1006	96
15°	990	990	989	987	988	280
25°	950	949	945	940	939	438
35°	867	865	859	852	848	541
45°	715	714	702	691	684	549
55°	489	480	460	446	441	437
65°	264	252	244	235	234	264
75°	106	104	102	98	98	114
85°	17	16	16	16	16	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1006.1	1006.1	1006.1	1006.1	1006.1
2.5°	1006.6	1006.3	1006.3	1005.3	1007.4
5°	1005.5	1005.8	1005.5	1004.5	1005.5
7.5°	1003.4	1003.7	1003.1	1002.1	1003.1
10°	1000.7	1000.7	999.7	999.1	999.9
12.5°	996.2	996.2	995.1	994.3	995.1
15°	990.3	990.3	989.0	987.4	988.2
17.5°	983.1	983.1	981.0	978.9	979.4
20°	974.3	974.1	971.1	968.2	968.5
22.5°	963.1	962.9	959.1	955.7	954.6
25°	949.5	949.3	944.7	940.5	939.4
27.5°	933.8	932.7	927.7	922.9	921.8
30°	915.1	914.3	907.7	902.9	900.7
32.5°	893.5	891.4	885.3	879.4	876.5
35°	866.6	865.3	859.1	851.9	848.5
37.5°	836.2	834.9	828.2	820.2	816.2
40°	801.0	799.9	791.7	783.4	778.3
42.5°	760.5	759.7	750.9	739.4	734.1
45°	715.4	713.5	702.3	690.6	684.2
47.5°	665.3	662.1	648.5	637.3	630.3
50°	609.8	605.6	590.9	576.5	569.3
52.5°	549.8	542.4	527.2	510.6	503.7
55°	489.0	479.7	460.0	446.1	441.0
57.5°	429.6	416.0	397.3	387.4	382.4
60°	371.2	356.2	341.6	332.0	328.5
62.5°	315.4	302.9	290.4	280.8	278.6
65°	264.0	252.5	244.2	234.9	233.6
67.5°	216.0	210.6	203.2	195.2	194.1
70°	174.1	172.0	165.3	160.5	158.7
72.5°	138.9	136.8	132.0	128.5	128.0
75°	105.6	103.5	101.9	98.4	97.6
77.5°	75.2	75.5	74.1	72.3	72.8
80°	54.4	51.2	50.1	49.1	48.8
82.5°	33.3	31.5	30.7	30.4	30.9
85°	17.1	16.3	16.5	15.7	16.5
87.5°	5.9	5.9	6.1	5.9	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)