

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: P412495

Luminaire Tested: **24PD-30-PB1-L940**

Issue Date: 9/15/2020



**Test Information**

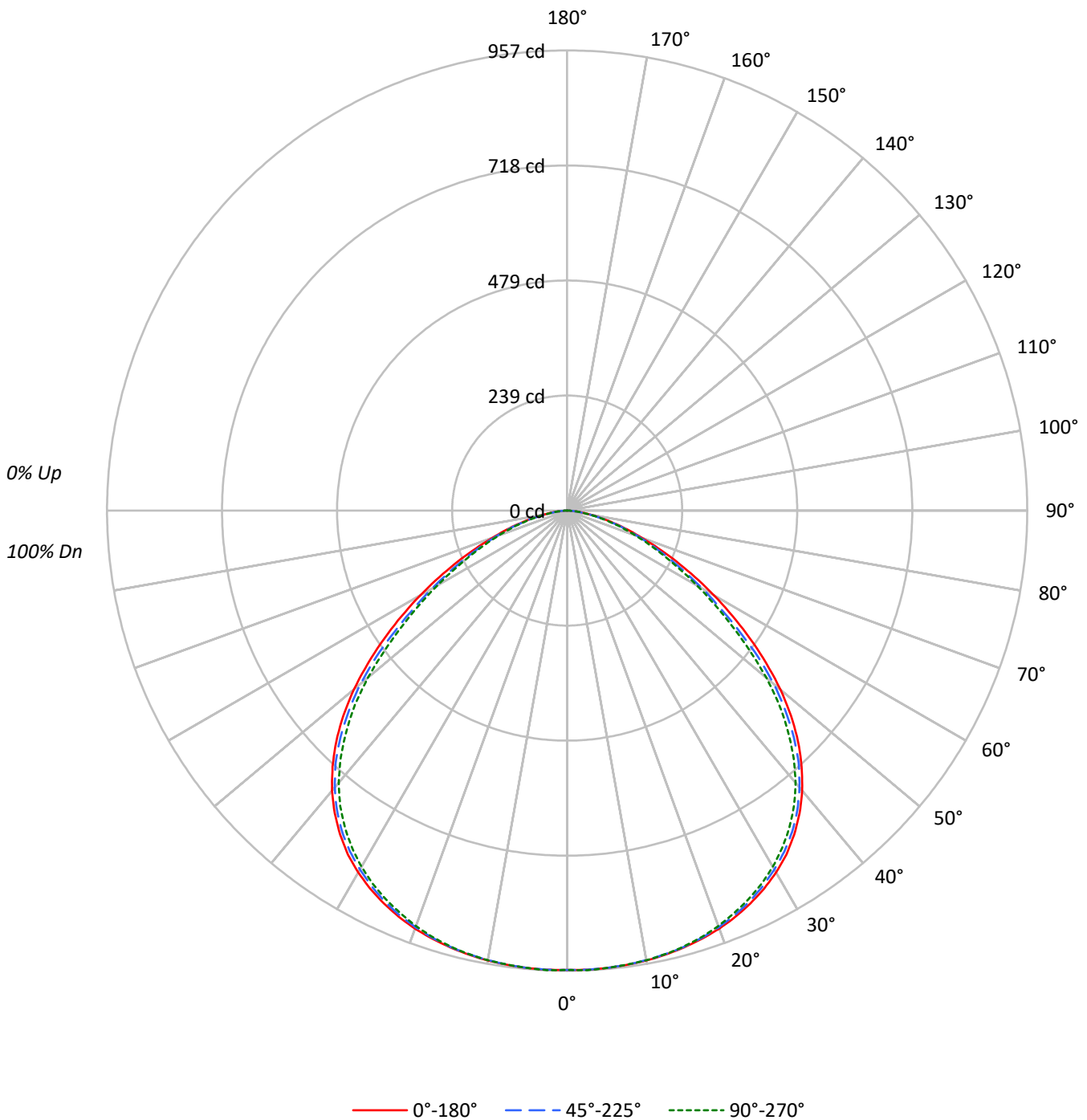
Test Method: LM-79-08  
Report Number: P412495  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-45)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-30-PB1-L940  
Description: 3000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2542.0 lumens  
Efficiency: N/A  
Efficacy: 115.5 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

TEST NUMBER: P412495  
CATALOG NUMBER: 24PD-30-PB1-L940

### 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°	1285	1285	1285
5°	1290	1290	1290
10°	1298	1297	1297
15°	1310	1308	1307
20°	1325	1320	1317
25°	1339	1332	1324
30°	1350	1339	1329
35°	1352	1340	1323
40°	1336	1320	1298
45°	1293	1269	1236
50°	1212	1175	1132
55°	1089	1025	982
60°	949	873	839
65°	798	738	706
70°	650	618	593
75°	521	503	482
80°	401	369	359
85°	250	242	242



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.0	3.6
10°-20°	265.5	10.4
20°-30°	413.6	16.3
30°-40°	508.8	20.0
40°-50°	511.1	20.1
50°-60°	393.9	15.5
60°-70°	233.8	9.2
70°-80°	104.1	4.1
80°-90°	20.3	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°	770.0	30.3
0°-40°	1278.8	50.3
0°-60°	2183.7	85.9
0°-90°	2542.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2542.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	955	955	955	955	955	
5°	955	955	955	954	955	91
15°	940	940	939	938	938	266
25°	902	901	897	893	892	416
35°	823	822	816	809	806	514
45°	679	678	667	656	650	521
55°	464	456	437	424	419	415
65°	251	240	232	223	222	250
75°	100	98	97	93	93	109
85°	16	15	16	15	16	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	955.3	955.3	955.3	955.3	955.3
2.5°	955.8	955.6	955.6	954.6	956.6
5°	954.8	955.1	954.8	953.8	954.8
7.5°	952.8	953.0	952.5	951.5	952.5
10°	950.3	950.3	949.2	948.7	949.5
12.5°	945.9	945.9	944.9	944.2	944.9
15°	940.4	940.4	939.1	937.6	938.4
17.5°	933.5	933.5	931.5	929.5	930.0
20°	925.2	924.9	922.1	919.4	919.6
22.5°	914.6	914.3	910.8	907.5	906.4
25°	901.6	901.4	897.1	893.0	892.0
27.5°	886.7	885.7	880.9	876.3	875.3
30°	869.0	868.2	861.9	857.3	855.3
32.5°	848.5	846.4	840.6	835.0	832.3
35°	822.9	821.6	815.8	809.0	805.7
37.5°	794.0	792.8	786.4	778.8	775.0
40°	760.6	759.6	751.7	743.9	739.1
42.5°	722.1	721.4	713.0	702.1	697.1
45°	679.3	677.6	666.9	655.8	649.7
47.5°	631.7	628.7	615.8	605.1	598.6
50°	579.1	575.0	561.1	547.4	540.6
52.5°	522.1	515.0	500.6	484.9	478.3
55°	464.4	455.5	436.8	423.6	418.8
57.5°	407.9	395.0	377.3	367.9	363.1
60°	352.5	338.3	324.3	315.2	311.9
62.5°	299.5	287.6	275.7	266.6	264.6
65°	250.7	239.8	231.9	223.1	221.8
67.5°	205.1	200.0	192.9	185.3	184.3
70°	165.3	163.3	157.0	152.4	150.7
72.5°	131.9	129.9	125.3	122.0	121.5
75°	100.3	98.2	96.7	93.4	92.7
77.5°	71.4	71.7	70.4	68.6	69.1
80°	51.7	48.6	47.6	46.6	46.3
82.5°	31.6	29.9	29.1	28.9	29.4
85°	16.2	15.4	15.7	14.9	15.7
87.5°	5.6	5.6	5.8	5.6	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)