

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: P412837

Luminaire Tested: **24PD-30-PP3-L940**

Issue Date: 9/15/2020



**Test Information**

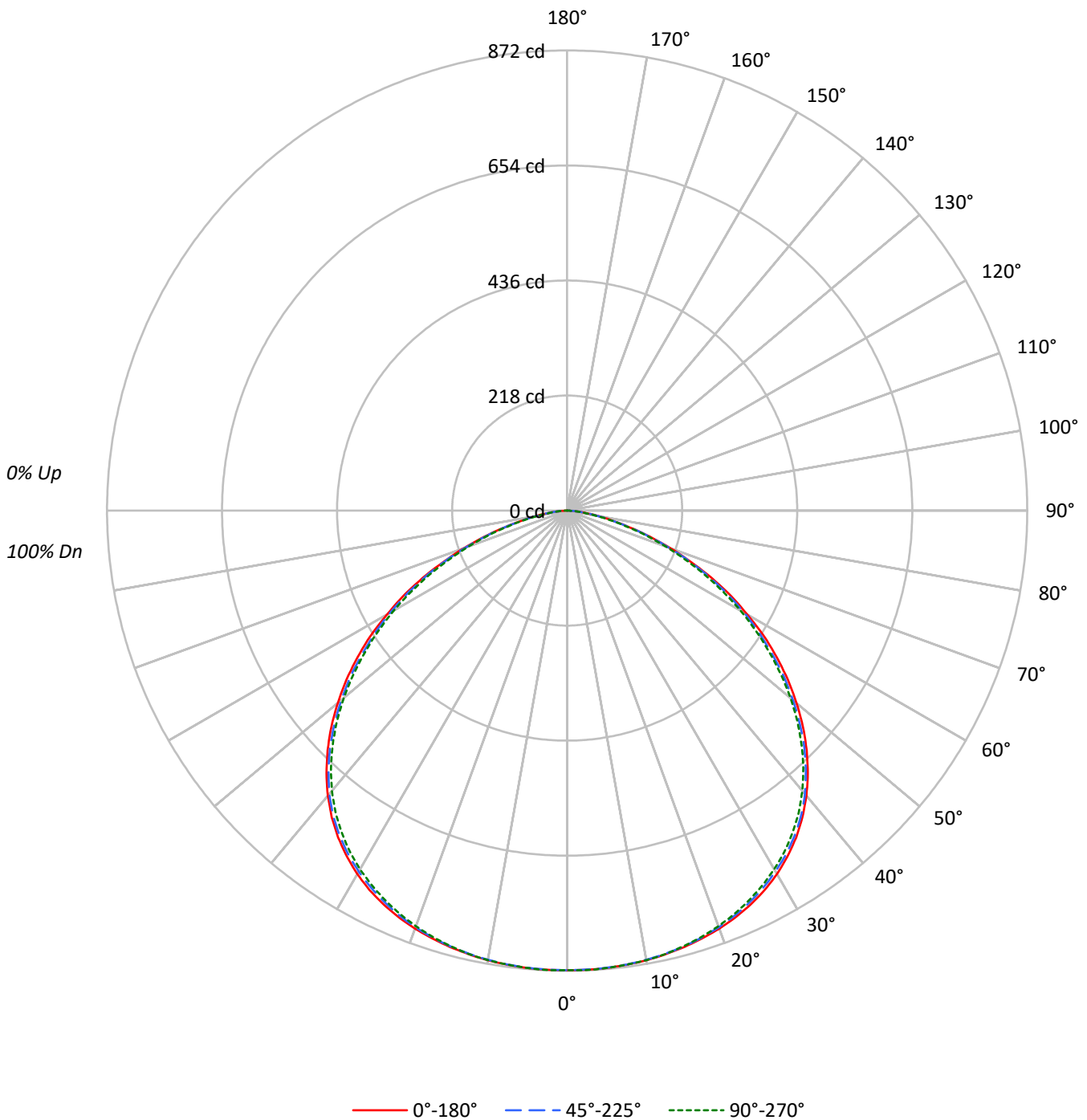
Test Method: LM-79-08  
Report Number: P412837  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-30-PP3-L940  
Description: 3000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2534.0 lumens  
Efficiency: N/A  
Efficacy: 115.2 lumens/watt  
Spacing Criteria (0/90/45): 1.35 / 1.33 / 1.43  
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	109	105	101	97	107	103	99	96	98	95	93		95	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80	77	74	71
3	91	81	73	66	89	79	72	66	76	70	65		73	68	64		71	66	63	60
4	83	72	63	56	81	70	62	56	68	61	55		65	59	54		63	58	54	52
5	77	64	55	49	75	63	54	48	61	53	48		59	52	47		57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42		53	46	41		52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37		48	42	37		47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33		44	38	33		43	37	32	31
9	57	44	35	30	55	43	35	30	42	35	30		41	34	29		40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37	31	27	25

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

	0°	45°	90°
0°	1172	1172	1172
5°	1175	1175	1175
10°	1182	1181	1182
15°	1193	1191	1190
20°	1207	1203	1200
25°	1222	1216	1210
30°	1236	1227	1219
35°	1242	1235	1224
40°	1239	1232	1218
45°	1221	1209	1196
50°	1188	1169	1157
55°	1139	1111	1097
60°	1061	1042	1021
65°	962	942	915
70°	821	806	780
75°	641	635	604
80°	473	453	428
85°	286	286	266



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.9	3.3
10°-20°	241.8	9.5
20°-30°	377.9	14.9
30°-40°	469.7	18.5
40°-50°	489.3	19.3
50°-60°	424.6	16.8
60°-70°	292.0	11.5
70°-80°	131.8	5.2
80°-90°	24.1	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°	702.5	27.7
0°-40°	1172.2	46.3
0°-60°	2086.1	82.3
0°-90°	2534.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2534.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	871	871	871	871	871	
5°	870	870	870	869	870	83
15°	856	856	855	854	854	242
25°	823	823	819	816	815	380
35°	756	756	752	748	745	473
45°	642	642	636	631	628	494
55°	485	483	474	468	468	433
65°	302	301	296	289	287	298
75°	123	124	122	119	116	134
85°	18	18	18	18	17	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	870.9	870.9	870.9	870.9	870.9
2.5°	871.1	871.1	870.6	869.8	871.6
5°	869.8	870.1	869.6	868.8	870.1
7.5°	868.1	868.3	867.6	866.8	867.8
10°	865.3	865.0	864.3	863.8	865.0
12.5°	861.2	861.0	860.2	859.7	860.7
15°	856.2	856.2	854.9	854.1	854.4
17.5°	850.1	850.1	848.3	846.6	847.1
20°	843.0	842.8	840.2	838.4	838.2
22.5°	834.1	834.1	830.6	828.3	827.6
25°	823.3	823.0	818.9	815.7	815.2
27.5°	810.8	810.3	805.5	802.2	801.0
30°	795.4	794.9	789.8	786.3	784.8
32.5°	777.2	777.9	772.1	768.1	766.5
35°	756.4	756.4	751.8	747.5	745.0
37.5°	732.6	732.6	728.3	724.0	720.9
40°	705.5	705.8	701.2	695.9	693.3
42.5°	675.1	675.6	669.5	665.2	662.5
45°	641.9	642.2	635.6	630.8	628.5
47.5°	606.0	605.5	598.1	594.1	591.8
50°	567.5	566.5	558.4	554.6	552.6
52.5°	527.2	525.2	518.1	512.5	510.8
55°	485.4	482.7	473.8	468.2	467.7
57.5°	441.9	438.6	431.3	425.9	423.9
60°	394.3	393.5	387.4	381.1	379.6
62.5°	349.7	347.4	342.1	334.5	333.8
65°	302.1	300.8	296.0	288.9	287.4
67.5°	253.0	254.2	250.2	243.9	241.8
70°	208.7	209.4	204.9	199.0	198.3
72.5°	164.1	165.4	161.6	157.8	157.0
75°	123.3	123.8	122.1	118.8	116.2
77.5°	87.6	89.4	87.4	85.1	83.1
80°	61.0	58.2	58.5	57.5	55.2
82.5°	36.7	35.5	35.2	34.2	33.2
85°	18.5	18.2	18.5	18.2	17.2
87.5°	6.1	6.6	6.8	6.8	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)