

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: P412494

Luminaire Tested: **24PD-30-PB1-L935**

Issue Date: 9/15/2020



**Test Information**

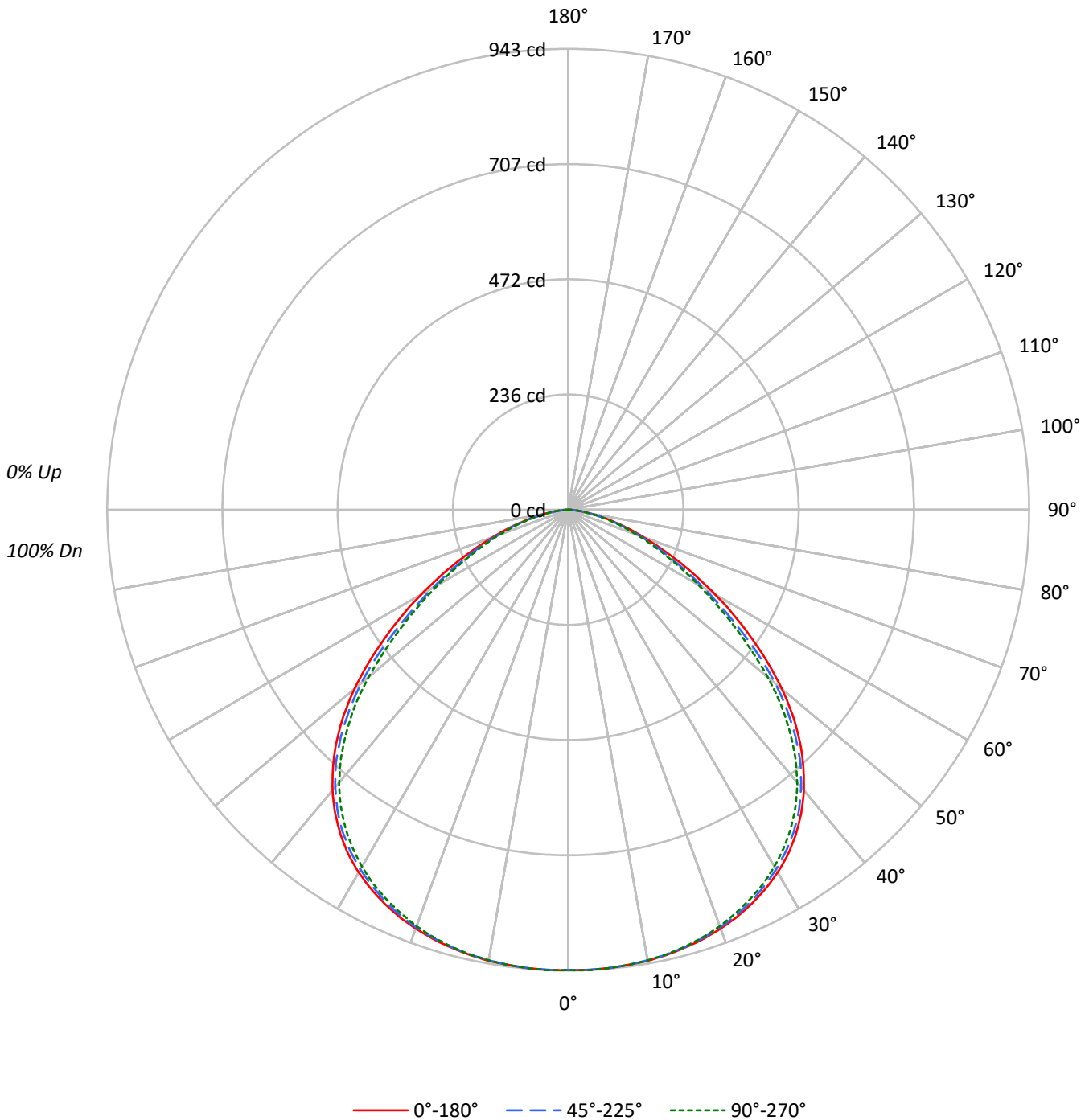
Test Method: LM-79-08  
Report Number: P412494  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-45)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-30-PB1-L935  
Description: 3000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 3500 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2507.0 lumens  
Efficiency: N/A  
Efficacy: 114.0 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°	1268	1268	1268
5°	1272	1272	1272
10°	1280	1279	1279
15°	1292	1290	1289
20°	1306	1302	1299
25°	1320	1313	1306
30°	1331	1321	1310
35°	1333	1322	1305
40°	1317	1302	1280
45°	1275	1251	1219
50°	1195	1158	1116
55°	1074	1011	969
60°	935	861	828
65°	787	728	696
70°	642	609	585
75°	514	496	475
80°	394	363	354
85°	247	239	239



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.7	3.6
10°-20°	261.8	10.4
20°-30°	407.9	16.3
30°-40°	501.8	20.0
40°-50°	504.0	20.1
50°-60°	388.5	15.5
60°-70°	230.6	9.2
70°-80°	102.7	4.1
80°-90°	20.0	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°	759.4	30.3
0°-40°	1261.2	50.3
0°-60°	2153.7	85.9
0°-90°	2507.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2507.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	942	942	942	942	942	
5°	942	942	942	941	942	90
15°	927	927	926	925	925	262
25°	889	889	885	881	880	410
35°	812	810	805	798	795	507
45°	670	668	658	647	641	514
55°	458	449	431	418	413	410
65°	247	236	229	220	219	247
75°	99	97	95	92	91	107
85°	16	15	16	15	16	21
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	942.2	942.2	942.2	942.2	942.2
2.5°	942.7	942.4	942.4	941.4	943.4
5°	941.7	941.9	941.7	940.7	941.7
7.5°	939.7	939.9	939.4	938.4	939.4
10°	937.2	937.2	936.2	935.7	936.4
12.5°	932.9	932.9	931.9	931.2	931.9
15°	927.4	927.4	926.2	924.7	925.4
17.5°	920.7	920.7	918.7	916.7	917.2
20°	912.4	912.2	909.5	906.7	907.0
22.5°	902.0	901.7	898.2	895.0	894.0
25°	889.2	889.0	884.7	880.7	879.7
27.5°	874.5	873.5	868.7	864.3	863.3
30°	857.0	856.3	850.0	845.5	843.5
32.5°	836.8	834.8	829.0	823.5	820.8
35°	811.6	810.3	804.6	797.8	794.6
37.5°	783.1	781.8	775.6	768.1	764.4
40°	750.1	749.1	741.4	733.7	728.9
42.5°	712.2	711.4	703.2	692.5	687.5
45°	670.0	668.2	657.7	646.8	640.8
47.5°	623.0	620.0	607.3	596.8	590.3
50°	571.1	567.1	553.4	539.9	533.1
52.5°	514.9	507.9	493.7	478.2	471.7
55°	458.0	449.2	430.8	417.8	413.0
57.5°	402.3	389.6	372.1	362.8	358.1
60°	347.6	333.6	319.9	310.9	307.6
62.5°	295.4	283.7	271.9	262.9	260.9
65°	247.2	236.5	228.7	220.0	218.7
67.5°	202.3	197.3	190.3	182.8	181.8
70°	163.1	161.1	154.8	150.3	148.6
72.5°	130.1	128.1	123.6	120.4	119.9
75°	98.9	96.9	95.4	92.1	91.4
77.5°	70.4	70.7	69.4	67.7	68.2
80°	50.9	47.9	46.9	45.9	45.7
82.5°	31.2	29.5	28.7	28.5	29.0
85°	16.0	15.2	15.5	14.7	15.5
87.5°	5.5	5.5	5.7	5.5	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)