

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: P412831

Luminaire Tested: **24PD-30-PP3-L835**

Issue Date: 9/15/2020



**Test Information**

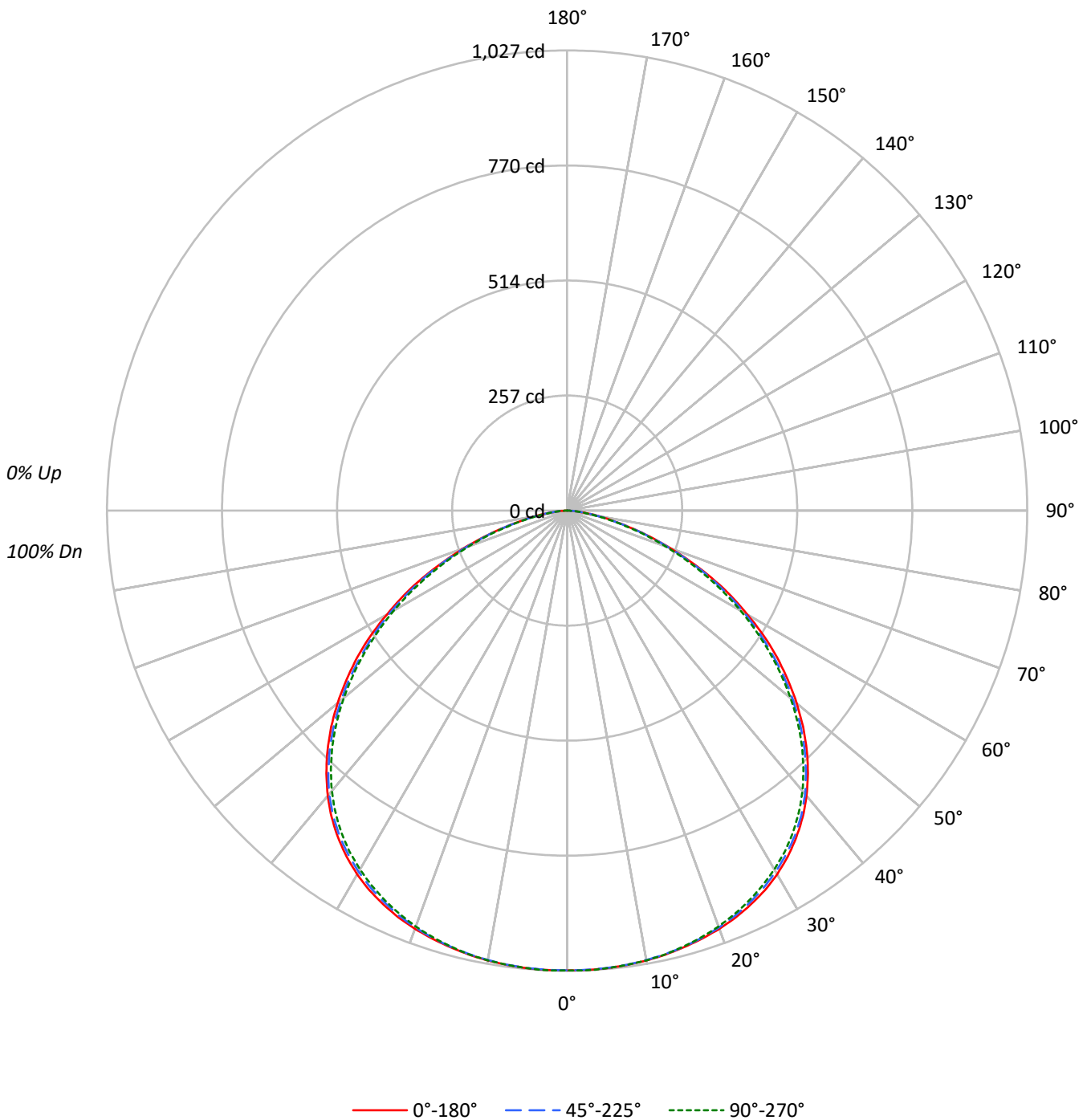
Test Method: LM-79-08  
Report Number: P412831  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-30-PP3-L835  
Description: 3000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2986.0 lumens  
Efficiency: N/A  
Efficacy: 135.7 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 (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	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°	1381	1381	1381
5°	1384	1384	1385
10°	1393	1391	1393
15°	1405	1403	1402
20°	1422	1418	1414
25°	1440	1433	1426
30°	1456	1446	1437
35°	1464	1455	1442
40°	1460	1451	1435
45°	1439	1425	1409
50°	1400	1377	1363
55°	1342	1310	1293
60°	1250	1229	1204
65°	1133	1110	1078
70°	967	950	919
75°	755	748	712
80°	557	534	504
85°	337	337	313



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.6	3.3
10°-20°	284.9	9.5
20°-30°	445.3	14.9
30°-40°	553.4	18.5
40°-50°	576.6	19.3
50°-60°	500.4	16.8
60°-70°	344.0	11.5
70°-80°	155.3	5.2
80°-90°	28.5	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°	827.8	27.7
0°-40°	1381.3	46.3
0°-60°	2458.2	82.3
0°-90°	2986.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2986.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1026	1026	1026	1026	1026	
5°	1025	1025	1025	1024	1025	98
15°	1009	1009	1007	1006	1007	285
25°	970	970	965	961	961	448
35°	891	891	886	881	878	557
45°	756	757	749	743	741	582
55°	572	569	558	552	551	510
65°	356	354	349	340	339	351
75°	145	146	144	140	137	158
85°	22	22	22	22	20	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1026.2	1026.2	1026.2	1026.2	1026.2
2.5°	1026.5	1026.5	1025.9	1025.0	1027.1
5°	1025.0	1025.3	1024.7	1023.8	1025.3
7.5°	1022.9	1023.2	1022.3	1021.4	1022.6
10°	1019.6	1019.3	1018.4	1017.8	1019.3
12.5°	1014.9	1014.6	1013.7	1013.1	1014.3
15°	1008.9	1008.9	1007.4	1006.5	1006.8
17.5°	1001.7	1001.7	999.6	997.6	998.2
20°	993.4	993.1	990.1	988.0	987.7
22.5°	982.9	982.9	978.8	976.1	975.2
25°	970.1	969.8	965.0	961.1	960.6
27.5°	955.5	954.9	949.2	945.3	943.8
30°	937.3	936.7	930.7	926.5	924.7
32.5°	915.8	916.7	909.8	905.1	903.3
35°	891.3	891.3	886.0	880.9	877.9
37.5°	863.3	863.3	858.2	853.1	849.5
40°	831.3	831.6	826.3	820.0	817.0
42.5°	795.5	796.1	789.0	783.9	780.6
45°	756.4	756.7	749.0	743.3	740.6
47.5°	714.1	713.5	704.8	700.0	697.4
50°	668.7	667.5	658.0	653.5	651.1
52.5°	621.3	618.9	610.5	604.0	601.9
55°	572.0	568.8	558.3	551.7	551.1
57.5°	520.7	516.8	508.2	501.9	499.5
60°	464.6	463.7	456.6	449.1	447.3
62.5°	412.1	409.4	403.1	394.2	393.3
65°	356.0	354.5	348.8	340.5	338.7
67.5°	298.1	299.6	294.8	287.4	285.0
70°	245.9	246.8	241.4	234.5	233.6
72.5°	193.4	194.9	190.4	185.9	185.0
75°	145.3	145.9	143.8	140.0	137.0
77.5°	103.2	105.3	102.9	100.3	97.9
80°	71.9	68.6	68.9	67.7	65.1
82.5°	43.3	41.8	41.5	40.3	39.1
85°	21.8	21.5	21.8	21.5	20.3
87.5°	7.2	7.8	8.1	8.1	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)