

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: P413164

Luminaire Tested: **24PD-10-PC3-L835**

Issue Date: 9/15/2020



**Test Information**

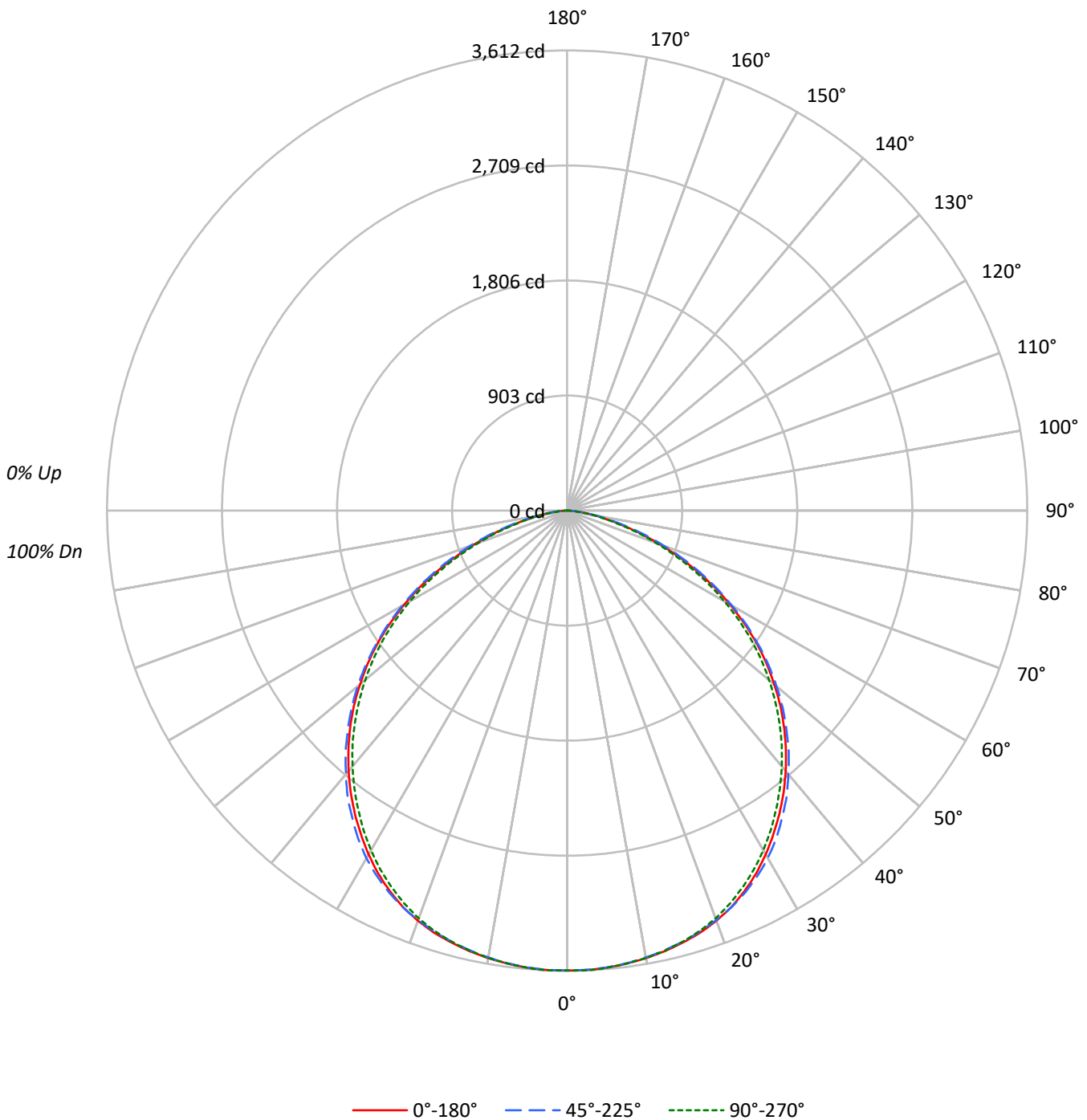
Test Method: LM-79-08  
Report Number: P413164  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-46)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-10-PC3-L835  
Description: 10000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9868.0 lumens  
Efficiency: N/A  
Efficacy: 127.5 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.38  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 77.4  
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	99	96	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	47	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

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

	0°	45°	90°
0°	4857	4857	4857
5°	4864	4861	4865
10°	4874	4867	4871
15°	4890	4880	4881
20°	4906	4899	4877
25°	4892	4910	4842
30°	4843	4894	4782
35°	4772	4833	4700
40°	4688	4744	4604
45°	4582	4632	4487
50°	4440	4490	4331
55°	4258	4295	4131
60°	3975	4021	3838
65°	3582	3671	3442
70°	3041	3175	2919
75°	2355	2527	2246
80°	1751	1829	1588
85°	1081	1158	1003



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	342.5	3.5
10°-20°	990.1	10.0
20°-30°	1516.2	15.4
30°-40°	1824.0	18.5
40°-50°	1859.9	18.8
50°-60°	1612.5	16.3
60°-70°	1117.9	11.3
70°-80°	510.6	5.2
80°-90°	94.3	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°	2848.7	28.9
0°-40°	4672.8	47.4
0°-60°	8145.2	82.5
0°-90°	9868.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9868.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3610	3610	3610	3610	3610	
5°	3601	3601	3599	3597	3602	343
15°	3510	3509	3503	3500	3504	992
25°	3295	3304	3307	3278	3261	1517
35°	2905	2936	2942	2904	2861	1817
45°	2408	2438	2434	2401	2358	1856
55°	1815	1826	1831	1786	1761	1617
65°	1125	1149	1153	1114	1081	1112
75°	453	478	486	470	432	495
85°	70	72	75	71	65	94
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3610.2	3610.2	3610.2	3610.2	3610.2
2.5°	3610.2	3610.2	3608.2	3606.2	3612.2
5°	3601.2	3601.2	3599.2	3597.2	3602.2
7.5°	3587.2	3586.2	3584.2	3582.2	3585.2
10°	3567.2	3566.2	3562.2	3561.2	3565.2
12.5°	3542.2	3541.2	3535.2	3535.2	3538.2
15°	3510.2	3509.2	3503.2	3500.2	3504.2
17.5°	3474.2	3473.2	3466.2	3458.2	3460.2
20°	3426.2	3426.2	3421.2	3409.2	3406.2
22.5°	3368.2	3371.2	3371.2	3348.2	3339.2
25°	3295.2	3304.2	3307.2	3278.2	3261.2
27.5°	3212.2	3226.2	3234.2	3197.2	3175.2
30°	3117.2	3140.2	3150.2	3110.2	3078.2
32.5°	3013.2	3042.2	3054.2	3015.2	2974.2
35°	2905.2	2936.2	2942.2	2904.2	2861.2
37.5°	2790.2	2822.2	2830.2	2796.2	2743.2
40°	2669.2	2701.2	2701.2	2673.2	2621.2
42.5°	2541.2	2575.2	2574.2	2540.2	2493.2
45°	2408.1	2438.1	2434.1	2401.1	2358.1
47.5°	2271.1	2290.1	2295.1	2256.1	2215.1
50°	2121.1	2140.1	2145.1	2101.1	2069.1
52.5°	1973.1	1985.1	1992.1	1941.1	1918.1
55°	1815.1	1826.1	1831.1	1786.1	1761.1
57.5°	1648.1	1662.1	1668.1	1623.1	1595.1
60°	1477.1	1492.1	1494.1	1452.1	1426.1
62.5°	1303.1	1323.1	1327.1	1285.1	1254.1
65°	1125.1	1149.1	1153.1	1114.1	1081.1
67.5°	947.1	979.1	980.1	948.1	909.1
70°	773.0	808.0	807.0	780.0	742.0
72.5°	607.0	639.0	646.0	621.0	584.0
75°	453.0	478.0	486.0	470.0	432.0
77.5°	322.0	345.0	352.0	337.0	309.0
80°	226.0	227.0	236.0	224.0	205.0
82.5°	140.0	138.0	141.0	136.0	125.0
85°	70.0	72.0	75.0	71.0	65.0
87.5°	24.0	25.0	27.0	27.0	24.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)