

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: P412921

Luminaire Tested: **24PD-80-PP3-L835**

Issue Date: 9/15/2020



**Test Information**

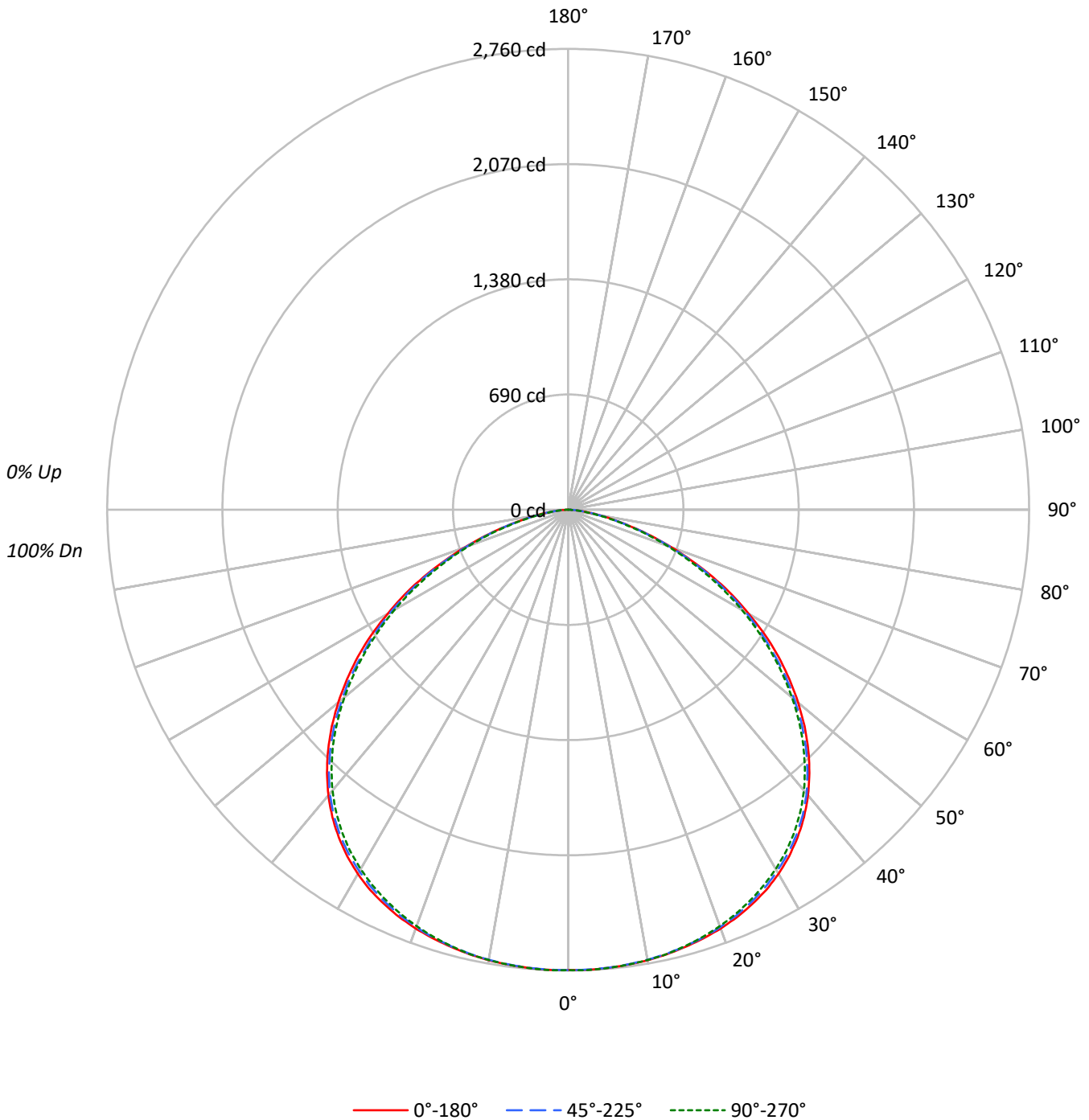
Test Method: LM-79-08  
Report Number: P412921  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-80-PP3-L835  
Description: 8000 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: 8024.0 lumens  
Efficiency: N/A  
Efficacy: 133.1 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): 60.3  
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°	3710	3710	3710
5°	3720	3719	3721
10°	3744	3739	3742
15°	3776	3771	3769
20°	3822	3810	3800
25°	3870	3850	3832
30°	3913	3886	3861
35°	3934	3910	3875
40°	3924	3900	3856
45°	3868	3830	3787
50°	3761	3701	3662
55°	3606	3519	3474
60°	3360	3302	3235
65°	3046	2984	2897
70°	2599	2552	2470
75°	2030	2009	1914
80°	1497	1435	1354
85°	903	903	841



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	262.4	3.3
10°-20°	765.6	9.5
20°-30°	1196.6	14.9
30°-40°	1487.2	18.5
40°-50°	1549.5	19.3
50°-60°	1344.6	16.8
60°-70°	924.5	11.5
70°-80°	417.2	5.2
80°-90°	76.5	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°	2224.5	27.7
0°-40°	3711.7	46.3
0°-60°	6605.8	82.3
0°-90°	8024.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8024.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2758	2758	2758	2758	2758	
5°	2754	2755	2754	2751	2755	262
15°	2711	2711	2707	2705	2706	767
25°	2607	2606	2593	2583	2581	1203
35°	2395	2395	2381	2367	2359	1497
45°	2033	2034	2013	1997	1990	1565
55°	1537	1528	1500	1483	1481	1370
65°	957	953	937	915	910	944
75°	390	392	386	376	368	425
85°	58	58	58	58	54	79
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2757.6	2757.6	2757.6	2757.6	2757.6
2.5°	2758.4	2758.4	2756.8	2754.4	2760.0
5°	2754.4	2755.2	2753.6	2751.2	2755.2
7.5°	2748.8	2749.6	2747.2	2744.8	2748.0
10°	2740.0	2739.2	2736.8	2735.2	2739.2
12.5°	2727.1	2726.3	2723.9	2722.3	2725.5
15°	2711.1	2711.1	2707.1	2704.7	2705.5
17.5°	2691.9	2691.9	2686.2	2680.6	2682.2
20°	2669.4	2668.6	2660.6	2655.0	2654.2
22.5°	2641.3	2641.3	2630.1	2622.9	2620.5
25°	2606.9	2606.1	2593.2	2582.8	2581.2
27.5°	2567.6	2566.0	2550.7	2540.3	2536.3
30°	2518.7	2517.1	2501.0	2489.8	2485.0
32.5°	2460.9	2463.3	2444.9	2432.1	2427.2
35°	2395.2	2395.2	2380.7	2367.1	2359.1
37.5°	2319.8	2319.8	2306.2	2292.5	2282.9
40°	2234.0	2234.8	2220.4	2203.5	2195.5
42.5°	2137.8	2139.4	2120.1	2106.5	2097.7
45°	2032.7	2033.5	2012.7	1997.4	1990.2
47.5°	1918.9	1917.3	1894.0	1881.2	1874.0
50°	1797.0	1793.8	1768.1	1756.1	1749.7
52.5°	1669.5	1663.1	1640.6	1623.0	1617.4
55°	1537.2	1528.4	1500.3	1482.6	1481.0
57.5°	1399.3	1388.8	1365.6	1348.7	1342.3
60°	1248.5	1246.1	1226.9	1206.8	1202.0
62.5°	1107.4	1100.2	1083.3	1059.3	1056.9
65°	956.6	952.6	937.4	914.9	910.1
67.5°	801.1	805.1	792.2	772.2	765.8
70°	660.7	663.1	648.7	630.3	627.9
72.5°	519.6	523.6	511.6	499.6	497.2
75°	390.5	392.1	386.5	376.1	368.1
77.5°	277.4	283.1	276.6	269.4	263.0
80°	193.2	184.4	185.2	182.0	174.8
82.5°	116.3	112.3	111.5	108.3	105.0
85°	58.5	57.7	58.5	57.7	54.5
87.5°	19.2	20.8	21.7	21.7	20.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)