

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: P412570

Luminaire Tested: **24PD-75-PB1-L835**

Issue Date: 9/15/2020



**Test Information**

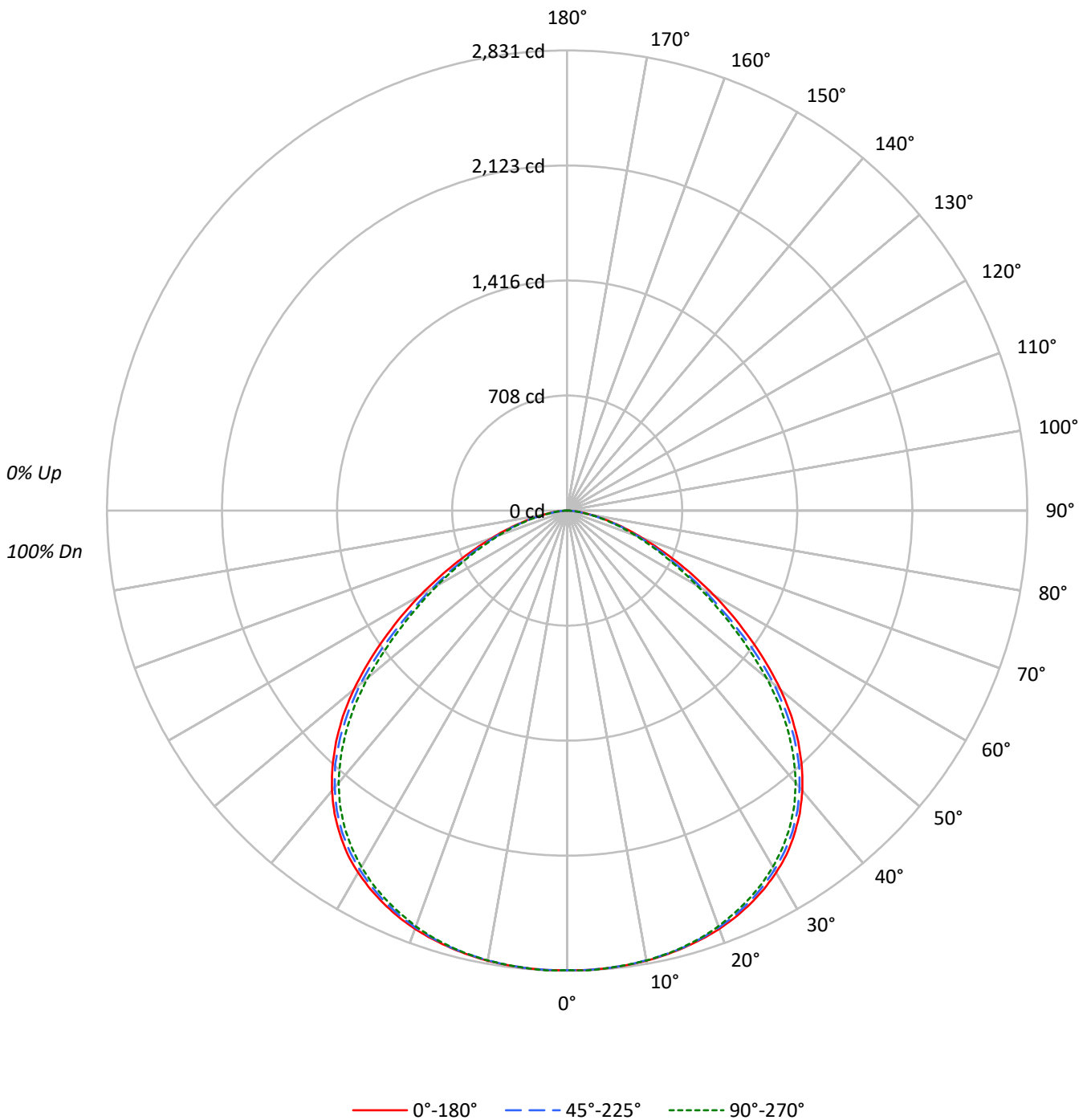
Test Method: LM-79-08  
Report Number: P412570  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-45)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-75-PB1-L835  
Description: 7500 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7524.0 lumens  
Efficiency: N/A  
Efficacy: 133.6 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): 56.3  
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	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					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°	3805	3805	3805
5°	3817	3817	3817
10°	3843	3839	3840
15°	3877	3872	3869
20°	3921	3908	3897
25°	3962	3942	3920
30°	3996	3963	3933
35°	4001	3966	3917
40°	3954	3908	3842
45°	3826	3756	3659
50°	3588	3476	3349
55°	3224	3033	2908
60°	2807	2583	2485
65°	2362	2186	2090
70°	1925	1828	1754
75°	1543	1488	1426
80°	1185	1092	1062
85°	741	718	718



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	269.2	3.6
10°-20°	785.8	10.4
20°-30°	1224.2	16.3
30°-40°	1505.9	20.0
40°-50°	1512.6	20.1
50°-60°	1165.8	15.5
60°-70°	692.1	9.2
70°-80°	308.1	4.1
80°-90°	60.2	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°	2279.1	30.3
0°-40°	3785.1	50.3
0°-60°	6463.6	85.9
0°-90°	7524.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7524.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2828	2828	2828	2828	2828	
5°	2826	2827	2826	2823	2826	269
15°	2783	2783	2780	2775	2777	787
25°	2669	2668	2655	2643	2640	1231
35°	2436	2432	2415	2394	2385	1521
45°	2011	2006	1974	1941	1923	1543
55°	1374	1348	1293	1254	1240	1229
65°	742	710	686	660	656	741
75°	297	291	286	276	274	321
85°	48	46	46	44	46	64
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2827.6	2827.6	2827.6	2827.6	2827.6
2.5°	2829.1	2828.4	2828.4	2825.4	2831.4
5°	2826.1	2826.9	2826.1	2823.1	2826.1
7.5°	2820.1	2820.9	2819.4	2816.4	2819.4
10°	2812.6	2812.6	2809.6	2808.1	2810.4
12.5°	2799.9	2799.9	2796.9	2794.6	2796.9
15°	2783.4	2783.4	2779.7	2775.2	2777.4
17.5°	2763.2	2763.2	2757.2	2751.2	2752.7
20°	2738.4	2737.7	2729.4	2721.2	2721.9
22.5°	2707.0	2706.2	2695.7	2686.0	2683.0
25°	2668.7	2668.0	2655.2	2643.3	2640.3
27.5°	2624.5	2621.5	2607.3	2593.8	2590.8
30°	2572.1	2569.8	2551.1	2537.6	2531.6
32.5°	2511.4	2505.4	2488.1	2471.6	2463.4
35°	2435.7	2431.9	2414.7	2394.4	2384.7
37.5°	2350.2	2346.5	2327.7	2305.3	2294.0
40°	2251.3	2248.3	2225.1	2201.8	2187.6
42.5°	2137.4	2135.1	2110.4	2078.2	2063.2
45°	2010.7	2005.5	1974.0	1941.0	1923.0
47.5°	1869.8	1860.8	1822.6	1791.1	1771.7
50°	1714.0	1702.0	1660.7	1620.3	1600.0
52.5°	1545.3	1524.3	1481.6	1435.2	1415.7
55°	1374.5	1348.2	1292.8	1253.8	1239.6
57.5°	1207.3	1169.1	1116.7	1088.9	1074.7
60°	1043.2	1001.2	960.0	933.0	923.3
62.5°	886.6	851.4	816.1	789.2	783.2
65°	741.9	709.7	686.5	660.3	656.5
67.5°	607.0	592.1	571.1	548.6	545.6
70°	489.4	483.4	464.6	451.2	445.9
72.5°	390.5	384.5	371.0	361.2	359.7
75°	296.8	290.8	286.3	276.5	274.3
77.5°	211.3	212.1	208.3	203.1	204.6
80°	152.9	143.9	140.9	137.9	137.1
82.5°	93.7	88.4	86.2	85.4	86.9
85°	48.0	45.7	46.5	44.2	46.5
87.5°	16.5	16.5	17.2	16.5	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)