

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: P412572

Luminaire Tested: **24PD-75-PB1-L850**

Issue Date: 9/15/2020



**Test Information**

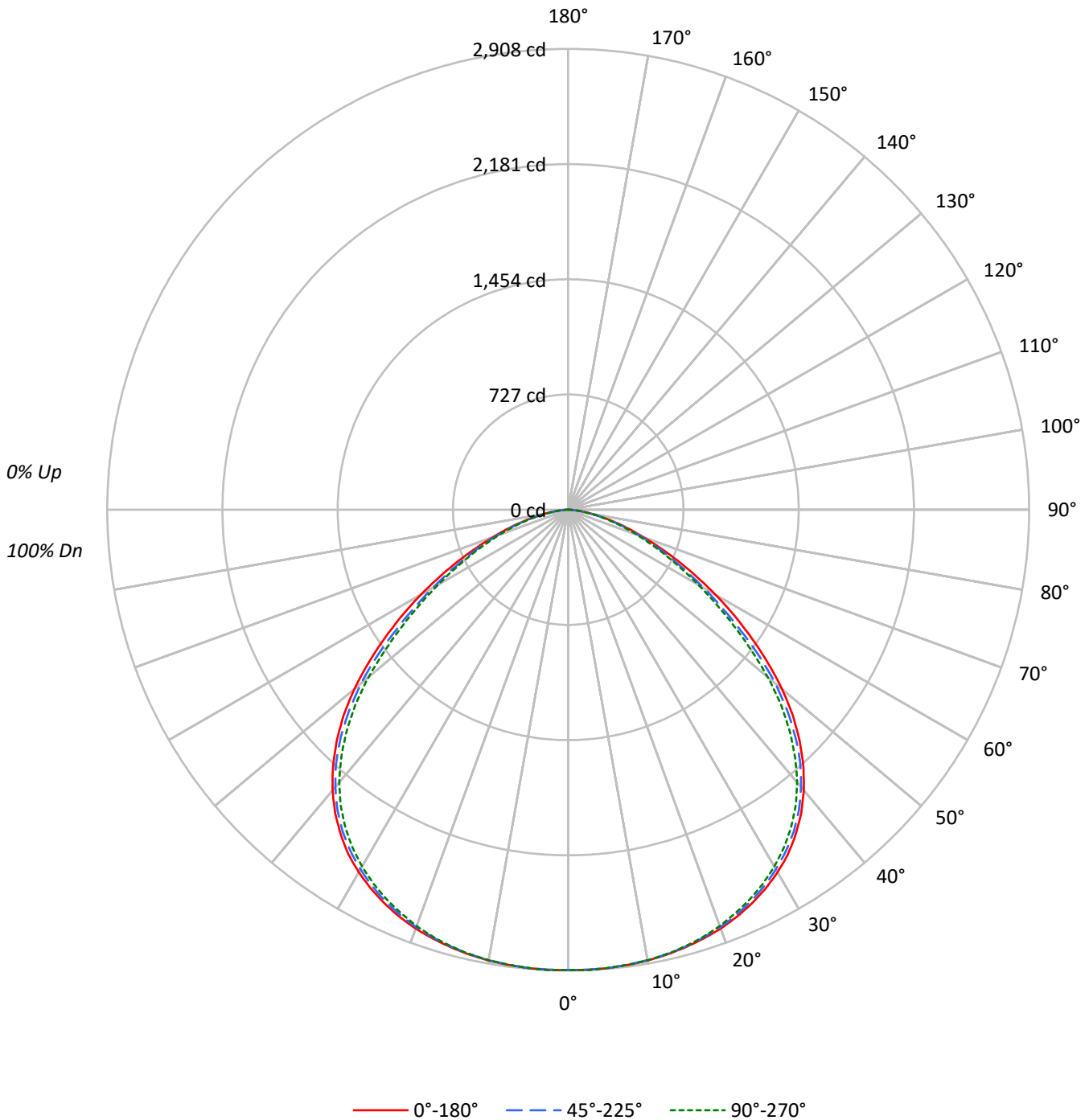
Test Method: LM-79-08  
Report Number: P412572  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-45)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-75-PB1-L850  
Description: 7500 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7728.0 lumens  
Efficiency: N/A  
Efficacy: 137.3 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	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°	3908	3908	3908
5°	3920	3920	3920
10°	3947	3943	3944
15°	3982	3977	3974
20°	4027	4014	4003
25°	4069	4049	4026
30°	4104	4071	4040
35°	4109	4074	4023
40°	4061	4014	3946
45°	3930	3858	3758
50°	3685	3571	3440
55°	3312	3115	2987
60°	2883	2654	2552
65°	2426	2245	2147
70°	1977	1877	1802
75°	1585	1528	1464
80°	1216	1121	1092
85°	761	736	736



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	276.5	3.6
10°-20°	807.1	10.4
20°-30°	1257.3	16.3
30°-40°	1546.8	20.0
40°-50°	1553.6	20.1
50°-60°	1197.4	15.5
60°-70°	710.9	9.2
70°-80°	316.5	4.1
80°-90°	61.8	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°	2340.9	30.3
0°-40°	3887.7	50.3
0°-60°	6638.8	85.9
0°-90°	7728.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7728.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2904	2904	2904	2904	2904	
5°	2903	2904	2903	2900	2903	277
15°	2859	2859	2855	2850	2853	808
25°	2741	2740	2727	2715	2712	1264
35°	2502	2498	2480	2459	2449	1562
45°	2065	2060	2028	1994	1975	1585
55°	1412	1385	1328	1288	1273	1262
65°	762	729	705	678	674	762
75°	305	299	294	284	282	330
85°	49	47	48	45	48	65
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2904.3	2904.3	2904.3	2904.3	2904.3
2.5°	2905.8	2905.1	2905.1	2902.0	2908.1
5°	2902.7	2903.5	2902.7	2899.7	2902.7
7.5°	2896.6	2897.4	2895.8	2892.7	2895.8
10°	2888.9	2888.9	2885.8	2884.3	2886.6
12.5°	2875.8	2875.8	2872.7	2870.4	2872.7
15°	2858.9	2858.9	2855.0	2850.4	2852.7
17.5°	2838.1	2838.1	2831.9	2825.8	2827.3
20°	2812.7	2811.9	2803.4	2795.0	2795.7
22.5°	2780.4	2779.6	2768.8	2758.8	2755.7
25°	2741.1	2740.3	2727.2	2714.9	2711.8
27.5°	2695.7	2692.6	2678.0	2664.1	2661.0
30°	2641.8	2639.5	2620.2	2606.4	2600.2
32.5°	2579.4	2573.3	2555.6	2538.6	2530.2
35°	2501.7	2497.9	2480.1	2459.4	2449.4
37.5°	2413.9	2410.1	2390.9	2367.8	2356.2
40°	2312.3	2309.3	2285.4	2261.5	2246.9
42.5°	2195.3	2193.0	2167.6	2134.5	2119.1
45°	2065.2	2059.9	2027.5	1993.7	1975.2
47.5°	1920.5	1911.3	1872.0	1839.7	1819.7
50°	1760.4	1748.1	1705.8	1664.2	1643.4
52.5°	1587.2	1565.7	1521.8	1474.1	1454.1
55°	1411.7	1384.8	1327.8	1287.8	1273.2
57.5°	1240.1	1200.8	1146.9	1118.5	1103.8
60°	1071.5	1028.4	986.1	958.3	948.3
62.5°	910.6	874.4	838.3	810.6	804.4
65°	762.1	729.0	705.1	678.2	674.3
67.5°	623.5	608.1	586.6	563.5	560.4
70°	502.6	496.5	477.2	463.4	458.0
72.5°	401.0	394.9	381.0	371.0	369.5
75°	304.8	298.7	294.0	284.0	281.7
77.5°	217.1	217.8	214.0	208.6	210.1
80°	157.0	147.8	144.7	141.6	140.9
82.5°	96.2	90.8	88.5	87.8	89.3
85°	49.3	47.0	47.7	45.4	47.7
87.5°	16.9	16.9	17.7	16.9	18.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)