

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: P412599

Luminaire Tested: **24PD-90-PB1-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412599
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-90-PB1-L850
Description: 9000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

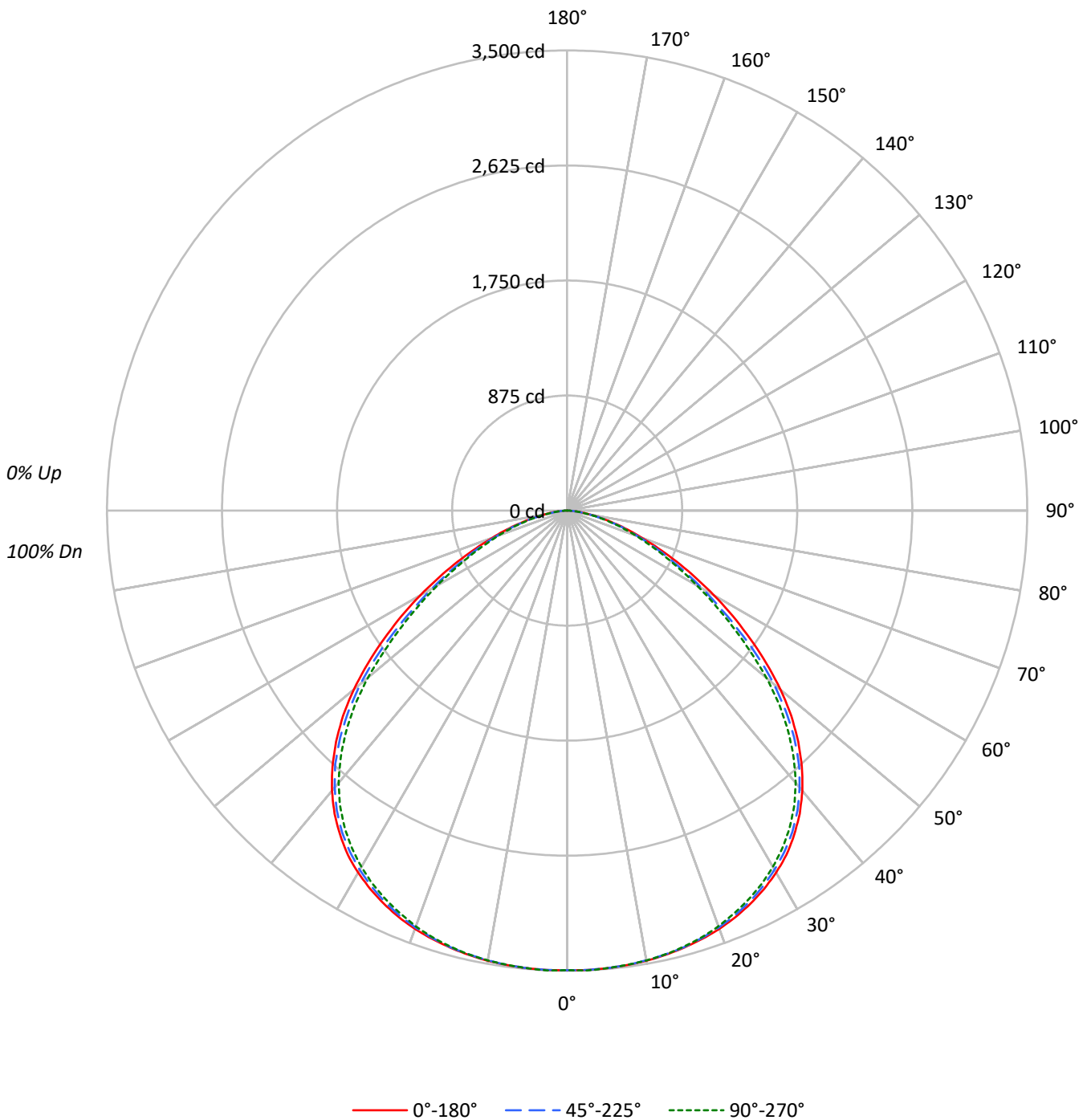
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9302.0 lumens
Efficiency: N/A
Efficacy: 135.4 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): 68.7
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°	4704	4704	4704
5°	4719	4719	4719
10°	4751	4746	4747
15°	4793	4787	4783
20°	4848	4832	4818
25°	4898	4873	4846
30°	4940	4900	4863
35°	4946	4903	4843
40°	4889	4832	4750
45°	4730	4644	4524
50°	4436	4298	4141
55°	3986	3749	3595
60°	3471	3194	3072
65°	2920	2702	2584
70°	2380	2260	2169
75°	1907	1840	1763
80°	1464	1350	1314
85°	915	886	886



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.8	3.6
10°-20°	971.5	10.4
20°-30°	1513.4	16.3
30°-40°	1861.8	20.0
40°-50°	1870.1	20.1
50°-60°	1441.3	15.5
60°-70°	855.7	9.2
70°-80°	381.0	4.1
80°-90°	74.4	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°	2817.7	30.3
0°-40°	4679.5	50.3
0°-60°	7991.0	85.9
0°-90°	9302.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9302.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3496	3496	3496	3496	3496	
5°	3494	3495	3494	3490	3494	333
15°	3441	3441	3436	3431	3434	973
25°	3299	3298	3283	3268	3264	1522
35°	3011	3007	2985	2960	2948	1880
45°	2486	2479	2440	2400	2378	1908
55°	1699	1667	1598	1550	1532	1520
65°	917	877	849	816	812	917
75°	367	360	354	342	339	397
85°	59	56	57	55	57	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3495.8	3495.8	3495.8	3495.8	3495.8
2.5°	3497.7	3496.7	3496.7	3493.0	3500.4
5°	3494.0	3494.9	3494.0	3490.3	3494.0
7.5°	3486.5	3487.5	3485.6	3481.9	3485.6
10°	3477.3	3477.3	3473.6	3471.7	3474.5
12.5°	3461.5	3461.5	3457.8	3455.0	3457.8
15°	3441.1	3441.1	3436.5	3431.0	3433.7
17.5°	3416.1	3416.1	3408.7	3401.3	3403.2
20°	3385.6	3384.6	3374.4	3364.2	3365.2
22.5°	3346.6	3345.7	3332.7	3320.7	3317.0
25°	3299.4	3298.5	3282.7	3267.9	3264.2
27.5°	3244.7	3241.0	3223.4	3206.7	3203.0
30°	3179.9	3177.1	3153.9	3137.2	3129.8
32.5°	3104.8	3097.4	3076.1	3055.7	3045.5
35°	3011.2	3006.6	2985.3	2960.3	2948.2
37.5°	2905.6	2901.0	2877.8	2850.0	2836.1
40°	2783.3	2779.6	2750.9	2722.2	2704.6
42.5°	2642.5	2639.7	2609.1	2569.3	2550.7
45°	2485.9	2479.4	2440.5	2399.7	2377.5
47.5°	2311.7	2300.6	2253.3	2214.4	2190.3
50°	2119.0	2104.2	2053.2	2003.2	1978.1
52.5°	1910.5	1884.6	1831.8	1774.3	1750.2
55°	1699.3	1666.8	1598.3	1550.1	1532.5
57.5°	1492.6	1445.4	1380.5	1346.3	1328.6
60°	1289.7	1237.8	1186.9	1153.5	1141.5
62.5°	1096.1	1052.5	1009.0	975.6	968.2
65°	917.3	877.4	848.7	816.3	811.6
67.5°	750.5	732.0	706.0	678.2	674.5
70°	605.0	597.6	574.5	557.8	551.3
72.5°	482.7	475.3	458.6	446.6	444.7
75°	366.9	359.5	353.9	341.9	339.1
77.5°	261.3	262.2	257.6	251.1	252.9
80°	189.0	177.9	174.2	170.5	169.6
82.5°	115.8	109.3	106.6	105.6	107.5
85°	59.3	56.5	57.4	54.7	57.4
87.5°	20.4	20.4	21.3	20.4	22.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)