

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: P412587

Luminaire Tested: **24PD-85-PB1-L830**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412587
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-85-PB1-L830
Description: 8500 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

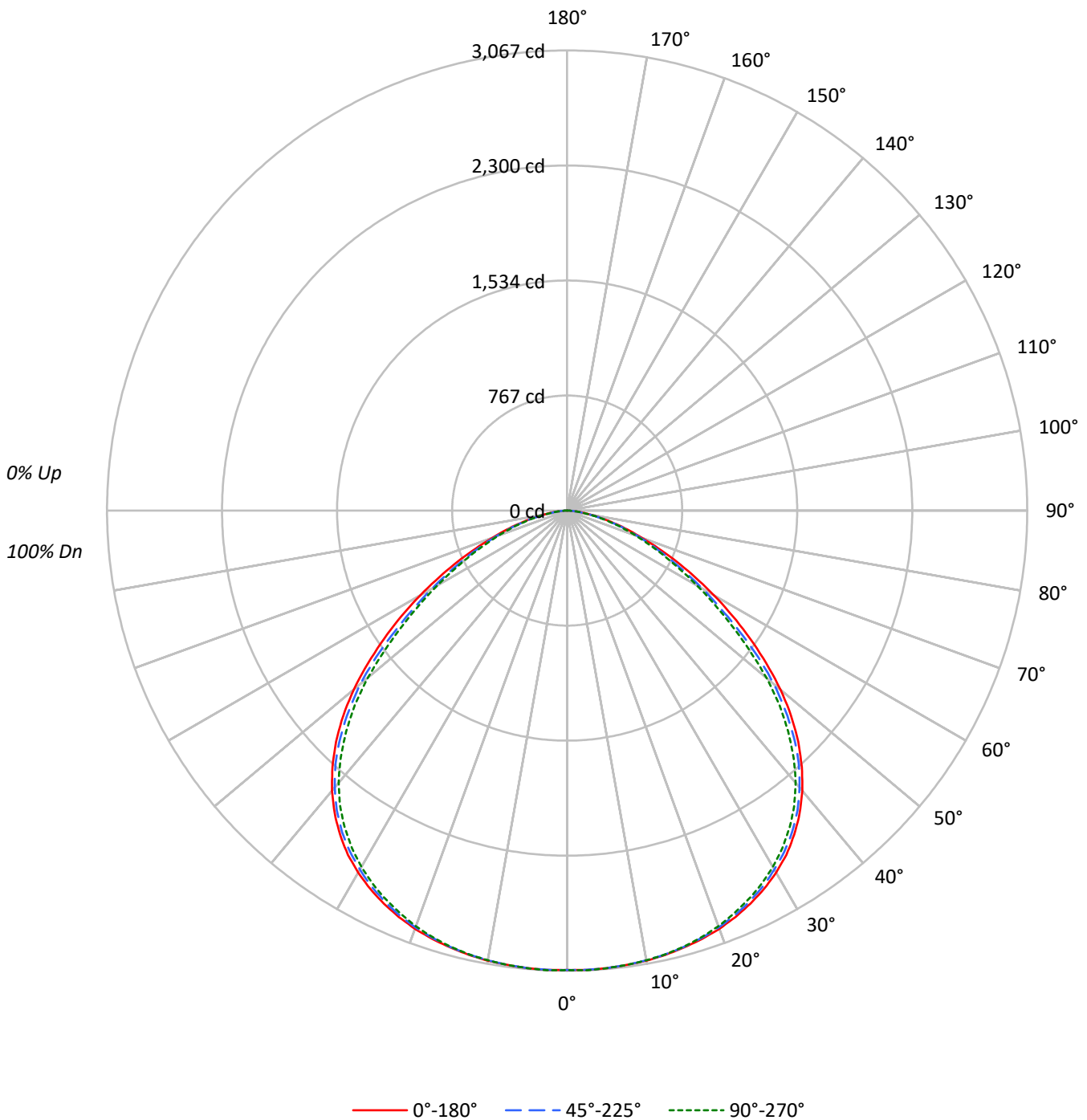
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8149.0 lumens
Efficiency: N/A
Efficacy: 126.3 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): 64.5
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°	4121	4121	4121
5°	4134	4134	4134
10°	4162	4157	4159
15°	4199	4194	4190
20°	4247	4233	4221
25°	4291	4269	4245
30°	4328	4293	4260
35°	4333	4296	4242
40°	4283	4233	4161
45°	4144	4068	3963
50°	3886	3765	3628
55°	3492	3285	3149
60°	3041	2798	2691
65°	2558	2367	2264
70°	2085	1980	1900
75°	1671	1612	1544
80°	1283	1182	1151
85°	801	777	777



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.6	3.6
10°-20°	851.1	10.4
20°-30°	1325.8	16.3
30°-40°	1631.0	20.0
40°-50°	1638.3	20.1
50°-60°	1262.7	15.5
60°-70°	749.6	9.2
70°-80°	333.7	4.1
80°-90°	65.2	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°	2468.5	30.3
0°-40°	4099.5	50.3
0°-60°	7000.5	85.9
0°-90°	8149.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8149.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3062	3062	3062	3062	3062	
5°	3061	3062	3061	3058	3061	292
15°	3015	3015	3011	3006	3008	852
25°	2890	2890	2876	2863	2860	1333
35°	2638	2634	2615	2593	2583	1647
45°	2178	2172	2138	2102	2083	1672
55°	1489	1460	1400	1358	1342	1331
65°	804	769	744	715	711	803
75°	321	315	310	300	297	348
85°	52	50	50	48	50	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3062.5	3062.5	3062.5	3062.5	3062.5
2.5°	3064.1	3063.3	3063.3	3060.1	3066.6
5°	3060.9	3061.7	3060.9	3057.6	3060.9
7.5°	3054.4	3055.2	3053.6	3050.3	3053.6
10°	3046.3	3046.3	3043.0	3041.4	3043.8
12.5°	3032.5	3032.5	3029.2	3026.8	3029.2
15°	3014.6	3014.6	3010.6	3005.7	3008.1
17.5°	2992.7	2992.7	2986.2	2979.7	2981.3
20°	2965.9	2965.1	2956.2	2947.2	2948.1
22.5°	2931.8	2931.0	2919.6	2909.1	2905.8
25°	2890.4	2889.6	2875.8	2862.8	2859.6
27.5°	2842.5	2839.3	2823.9	2809.3	2806.0
30°	2785.7	2783.3	2763.0	2748.4	2741.9
32.5°	2720.0	2713.5	2694.8	2676.9	2668.0
35°	2638.0	2633.9	2615.3	2593.3	2582.8
37.5°	2545.5	2541.4	2521.1	2496.8	2484.6
40°	2438.3	2435.1	2409.9	2384.7	2369.3
42.5°	2314.9	2312.5	2285.7	2250.8	2234.6
45°	2177.8	2172.1	2138.0	2102.3	2082.8
47.5°	2025.2	2015.4	1974.0	1939.9	1918.8
50°	1856.3	1843.3	1798.7	1754.9	1733.0
52.5°	1673.7	1651.0	1604.7	1554.4	1533.3
55°	1488.6	1460.2	1400.2	1358.0	1342.5
57.5°	1307.6	1266.2	1209.4	1179.4	1164.0
60°	1129.9	1084.4	1039.8	1010.6	1000.0
62.5°	960.2	922.1	883.9	854.7	848.2
65°	803.6	768.7	743.5	715.1	711.0
67.5°	657.5	641.2	618.5	594.2	590.9
70°	530.0	523.5	503.2	488.6	483.0
72.5°	422.9	416.4	401.8	391.2	389.6
75°	321.4	314.9	310.1	299.5	297.1
77.5°	228.9	229.7	225.6	220.0	221.6
80°	165.6	155.8	152.6	149.4	148.5
82.5°	101.5	95.8	93.3	92.5	94.2
85°	51.9	49.5	50.3	47.9	50.3
87.5°	17.9	17.9	18.7	17.9	19.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)