

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: P412937

Luminaire Tested: **24PD-85-PP3-L950**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412937
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-85-PP3-L950
Description: 8500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

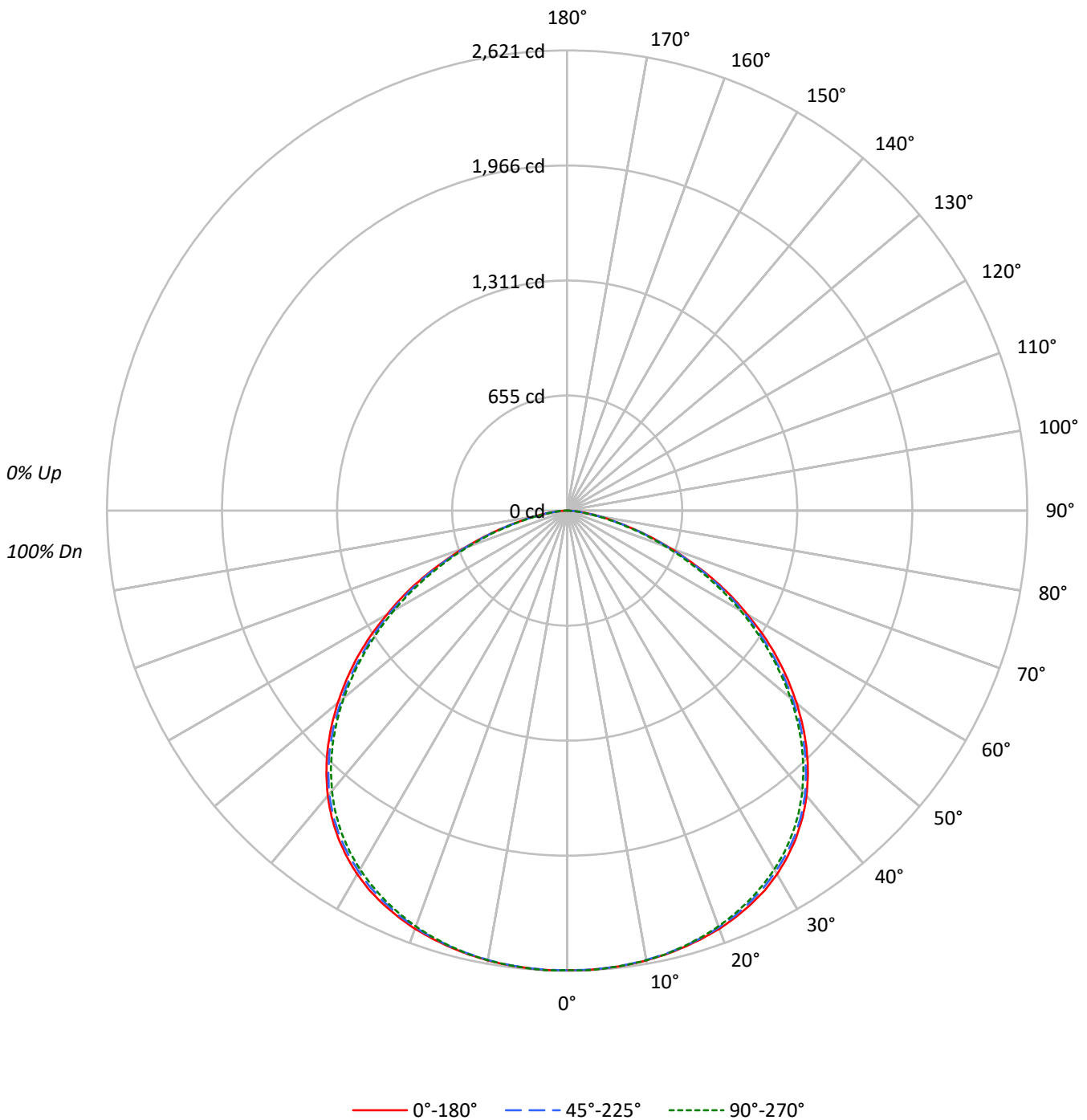
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7619.0 lumens
Efficiency: N/A
Efficacy: 118.1 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): 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	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°	3523	3523	3523
5°	3532	3531	3533
10°	3555	3550	3553
15°	3586	3581	3578
20°	3629	3617	3609
25°	3675	3655	3639
30°	3716	3690	3666
35°	3736	3713	3679
40°	3726	3703	3662
45°	3673	3636	3596
50°	3572	3514	3478
55°	3424	3342	3299
60°	3190	3135	3071
65°	2892	2834	2751
70°	2468	2423	2345
75°	1928	1908	1817
80°	1422	1363	1286
85°	858	858	800



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.1	3.3
10°-20°	726.9	9.5
20°-30°	1136.2	14.9
30°-40°	1412.1	18.5
40°-50°	1471.3	19.3
50°-60°	1276.7	16.8
60°-70°	877.9	11.5
70°-80°	396.2	5.2
80°-90°	72.6	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°	2112.3	27.7
0°-40°	3524.4	46.3
0°-60°	6272.4	82.3
0°-90°	7619.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7619.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2618	2618	2618	2618	2618	
5°	2615	2616	2615	2612	2616	249
15°	2574	2574	2570	2568	2569	728
25°	2475	2474	2462	2452	2451	1142
35°	2274	2274	2261	2248	2240	1421
45°	1930	1931	1911	1897	1890	1486
55°	1460	1451	1425	1408	1406	1301
65°	908	904	890	869	864	896
75°	371	372	367	357	350	404
85°	56	55	56	55	52	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2618.4	2618.4	2618.4	2618.4	2618.4
2.5°	2619.2	2619.2	2617.7	2615.4	2620.7
5°	2615.4	2616.1	2614.6	2612.3	2616.1
7.5°	2610.1	2610.8	2608.5	2606.2	2609.3
10°	2601.7	2600.9	2598.6	2597.1	2600.9
12.5°	2589.5	2588.7	2586.4	2584.9	2588.0
15°	2574.3	2574.3	2570.5	2568.2	2568.9
17.5°	2556.0	2556.0	2550.7	2545.3	2546.9
20°	2534.7	2533.9	2526.3	2521.0	2520.2
22.5°	2508.0	2508.0	2497.4	2490.5	2488.2
25°	2475.3	2474.5	2462.3	2452.4	2450.9
27.5°	2438.0	2436.5	2422.0	2412.1	2408.3
30°	2391.5	2390.0	2374.8	2364.1	2359.6
32.5°	2336.7	2339.0	2321.5	2309.3	2304.7
35°	2274.3	2274.3	2260.6	2247.6	2240.0
37.5°	2202.7	2202.7	2189.8	2176.8	2167.7
40°	2121.2	2122.0	2108.3	2092.3	2084.7
42.5°	2029.9	2031.4	2013.1	2000.2	1991.8
45°	1930.1	1930.9	1911.1	1896.6	1889.8
47.5°	1822.0	1820.5	1798.4	1786.2	1779.4
50°	1706.3	1703.2	1678.9	1667.4	1661.4
52.5°	1585.2	1579.1	1557.8	1541.1	1535.7
55°	1459.6	1451.2	1424.6	1407.8	1406.3
57.5°	1328.6	1318.7	1296.7	1280.7	1274.6
60°	1185.5	1183.2	1164.9	1145.9	1141.3
62.5°	1051.5	1044.6	1028.6	1005.8	1003.5
65°	908.3	904.5	890.1	868.7	864.2
67.5°	760.6	764.4	752.3	733.2	727.1
70°	627.4	629.7	616.0	598.5	596.2
72.5°	493.4	497.2	485.8	474.3	472.1
75°	370.8	372.3	367.0	357.1	349.5
77.5°	263.4	268.8	262.7	255.8	249.7
80°	183.5	175.1	175.9	172.8	166.0
82.5°	110.4	106.6	105.8	102.8	99.7
85°	55.6	54.8	55.6	54.8	51.8
87.5°	18.3	19.8	20.6	20.6	19.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)