

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: P413285

Luminaire Tested: **24PD-90-PC3-L930**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413285
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-46)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-90-PC3-L930
Description: 9000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

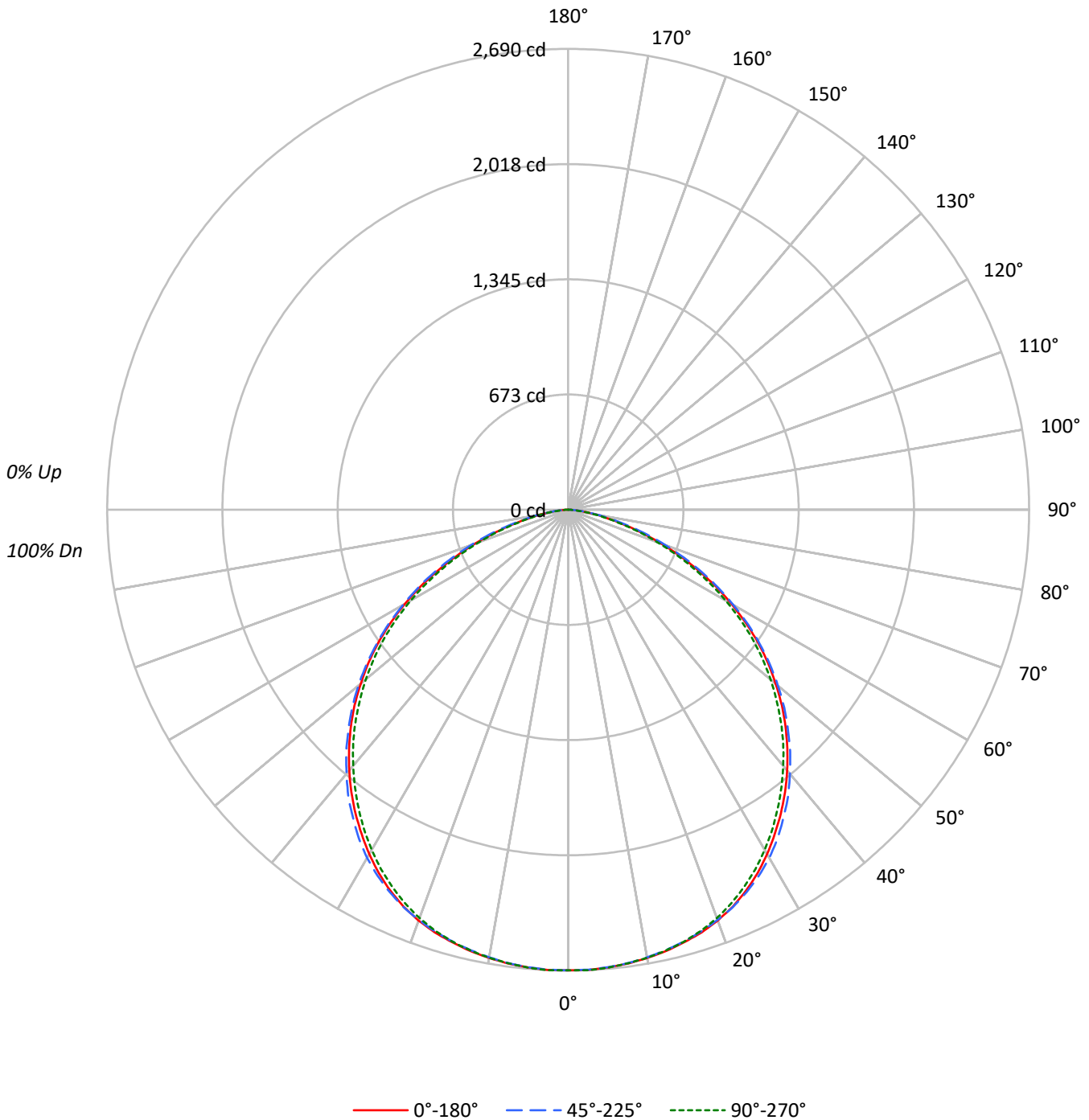
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7350.0 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.38
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	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	99	96	93		95	92	90		91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77		83	79	75		80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65		74	69	64		71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56		66	60	55		64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48		59	53	48		57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42		54	47	42		52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		47	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34		45	38	33		44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30		41	35	30		40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27		38	32	27		37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3618	3618	3618
5°	3623	3621	3624
10°	3630	3625	3628
15°	3642	3635	3636
20°	3654	3649	3633
25°	3644	3657	3606
30°	3607	3645	3562
35°	3554	3599	3500
40°	3492	3534	3429
45°	3413	3450	3342
50°	3307	3345	3226
55°	3172	3199	3077
60°	2961	2995	2858
65°	2668	2734	2564
70°	2265	2365	2174
75°	1754	1882	1673
80°	1304	1362	1183
85°	804	863	747



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.1	3.5
10°-20°	737.4	10.0
20°-30°	1129.3	15.4
30°-40°	1358.6	18.5
40°-50°	1385.4	18.8
50°-60°	1201.0	16.3
60°-70°	832.7	11.3
70°-80°	380.3	5.2
80°-90°	70.2	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°	2121.8	28.9
0°-40°	3480.4	47.4
0°-60°	6066.8	82.5
0°-90°	7350.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7350.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2689	2689	2689	2689	2689	
5°	2682	2682	2681	2679	2683	255
15°	2614	2614	2609	2607	2610	739
25°	2454	2461	2463	2442	2429	1130
35°	2164	2187	2191	2163	2131	1353
45°	1794	1816	1813	1788	1756	1382
55°	1352	1360	1364	1330	1312	1205
65°	838	856	859	830	805	828
75°	337	356	362	350	322	369
85°	52	54	56	53	48	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2689.0	2689.0	2689.0	2689.0	2689.0
2.5°	2689.0	2689.0	2687.5	2686.0	2690.5
5°	2682.3	2682.3	2680.8	2679.3	2683.0
7.5°	2671.9	2671.1	2669.6	2668.1	2670.4
10°	2657.0	2656.2	2653.3	2652.5	2655.5
12.5°	2638.4	2637.6	2633.1	2633.1	2635.4
15°	2614.5	2613.8	2609.3	2607.1	2610.0
17.5°	2587.7	2587.0	2581.7	2575.8	2577.3
20°	2551.9	2551.9	2548.2	2539.3	2537.1
22.5°	2508.7	2511.0	2511.0	2493.8	2487.1
25°	2454.4	2461.1	2463.3	2441.7	2429.0
27.5°	2392.5	2403.0	2408.9	2381.4	2365.0
30°	2321.8	2338.9	2346.4	2316.6	2292.7
32.5°	2244.3	2265.9	2274.9	2245.8	2215.3
35°	2163.9	2187.0	2191.4	2163.1	2131.1
37.5°	2078.2	2102.0	2108.0	2082.7	2043.2
40°	1988.1	2011.9	2011.9	1991.1	1952.3
42.5°	1892.7	1918.1	1917.3	1892.0	1857.0
45°	1793.7	1816.0	1813.0	1788.4	1756.4
47.5°	1691.6	1705.8	1709.5	1680.4	1649.9
50°	1579.9	1594.0	1597.8	1565.0	1541.2
52.5°	1469.6	1478.6	1483.8	1445.8	1428.7
55°	1352.0	1360.1	1363.9	1330.4	1311.7
57.5°	1227.6	1238.0	1242.5	1208.9	1188.1
60°	1100.2	1111.4	1112.8	1081.6	1062.2
62.5°	970.6	985.5	988.5	957.2	934.1
65°	838.0	855.9	858.8	829.8	805.2
67.5°	705.4	729.2	730.0	706.1	677.1
70°	575.8	601.9	601.1	581.0	552.7
72.5°	452.1	476.0	481.2	462.6	435.0
75°	337.4	356.1	362.0	350.1	321.8
77.5°	239.9	257.0	262.2	251.0	230.2
80°	168.3	169.1	175.8	166.9	152.7
82.5°	104.3	102.8	105.0	101.3	93.1
85°	52.1	53.6	55.9	52.9	48.4
87.5°	17.9	18.6	20.1	20.1	17.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)