

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: P413287

Luminaire Tested: **24PD-90-PC3-L940**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413287
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-L940
Description: 9000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

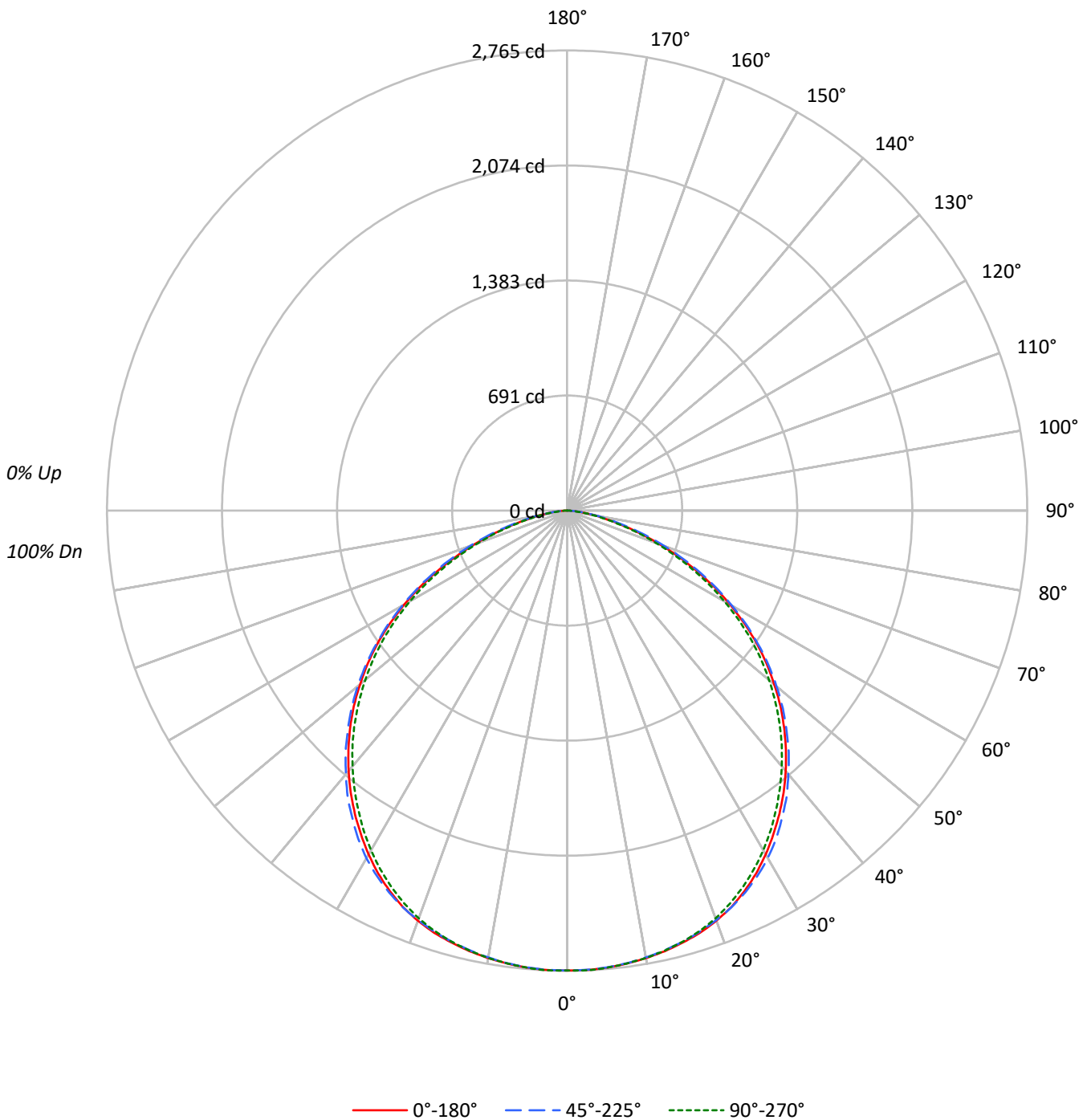
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7554.0 lumens
Efficiency: N/A
Efficacy: 110.0 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°	3718	3718	3718
5°	3723	3721	3724
10°	3731	3726	3729
15°	3743	3735	3737
20°	3755	3750	3734
25°	3745	3759	3706
30°	3707	3747	3661
35°	3653	3699	3597
40°	3589	3632	3524
45°	3508	3546	3435
50°	3399	3437	3315
55°	3259	3288	3162
60°	3043	3078	2938
65°	2742	2810	2635
70°	2328	2430	2234
75°	1803	1934	1719
80°	1340	1400	1216
85°	827	886	769



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.2	3.5
10°-20°	757.9	10.0
20°-30°	1160.7	15.4
30°-40°	1396.3	18.5
40°-50°	1423.8	18.8
50°-60°	1234.4	16.3
60°-70°	855.8	11.3
70°-80°	390.9	5.2
80°-90°	72.2	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°	2180.7	28.9
0°-40°	3577.0	47.4
0°-60°	6235.2	82.5
0°-90°	7554.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7554.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2764	2764	2764	2764	2764	
5°	2757	2757	2755	2754	2758	262
15°	2687	2686	2682	2679	2682	759
25°	2522	2529	2532	2510	2496	1161
35°	2224	2248	2252	2223	2190	1391
45°	1843	1866	1863	1838	1805	1421
55°	1390	1398	1402	1367	1348	1238
65°	861	880	883	853	828	851
75°	347	366	372	360	331	379
85°	54	55	57	54	50	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2763.6	2763.6	2763.6	2763.6	2763.6
2.5°	2763.6	2763.6	2762.1	2760.6	2765.2
5°	2756.7	2756.7	2755.2	2753.7	2757.5
7.5°	2746.0	2745.3	2743.7	2742.2	2744.5
10°	2730.7	2730.0	2726.9	2726.1	2729.2
12.5°	2711.6	2710.8	2706.2	2706.2	2708.5
15°	2687.1	2686.3	2681.7	2679.4	2682.5
17.5°	2659.5	2658.8	2653.4	2647.3	2648.8
20°	2622.8	2622.8	2618.9	2609.8	2607.5
22.5°	2578.4	2580.7	2580.7	2563.1	2556.2
25°	2522.5	2529.4	2531.7	2509.5	2496.5
27.5°	2458.9	2469.7	2475.8	2447.5	2430.6
30°	2386.2	2403.8	2411.5	2380.9	2356.4
32.5°	2306.6	2328.8	2338.0	2308.1	2276.7
35°	2223.9	2247.7	2252.3	2223.2	2190.2
37.5°	2135.9	2160.4	2166.5	2140.5	2099.9
40°	2043.3	2067.8	2067.8	2046.3	2006.5
42.5°	1945.3	1971.3	1970.5	1944.5	1908.5
45°	1843.4	1866.4	1863.4	1838.1	1805.2
47.5°	1738.6	1753.1	1756.9	1727.1	1695.7
50°	1623.7	1638.3	1642.1	1608.4	1583.9
52.5°	1510.4	1519.6	1525.0	1485.9	1468.3
55°	1389.5	1397.9	1401.7	1367.3	1348.1
57.5°	1261.6	1272.3	1276.9	1242.5	1221.1
60°	1130.7	1142.2	1143.7	1111.6	1091.7
62.5°	997.5	1012.8	1015.9	983.7	960.0
65°	861.2	879.6	882.7	852.8	827.6
67.5°	725.0	749.5	750.2	725.7	695.9
70°	591.8	618.6	617.8	597.1	568.0
72.5°	464.7	489.2	494.5	475.4	447.1
75°	346.8	365.9	372.1	359.8	330.7
77.5°	246.5	264.1	269.5	258.0	236.6
80°	173.0	173.8	180.7	171.5	156.9
82.5°	107.2	105.6	107.9	104.1	95.7
85°	53.6	55.1	57.4	54.4	49.8
87.5°	18.4	19.1	20.7	20.7	18.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)