

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: P413167

Luminaire Tested: **24PD-10-PC3-L927**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413167
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-10-PC3-L927
Description: 10000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS
Light Source: -
Ballast/Driver: -

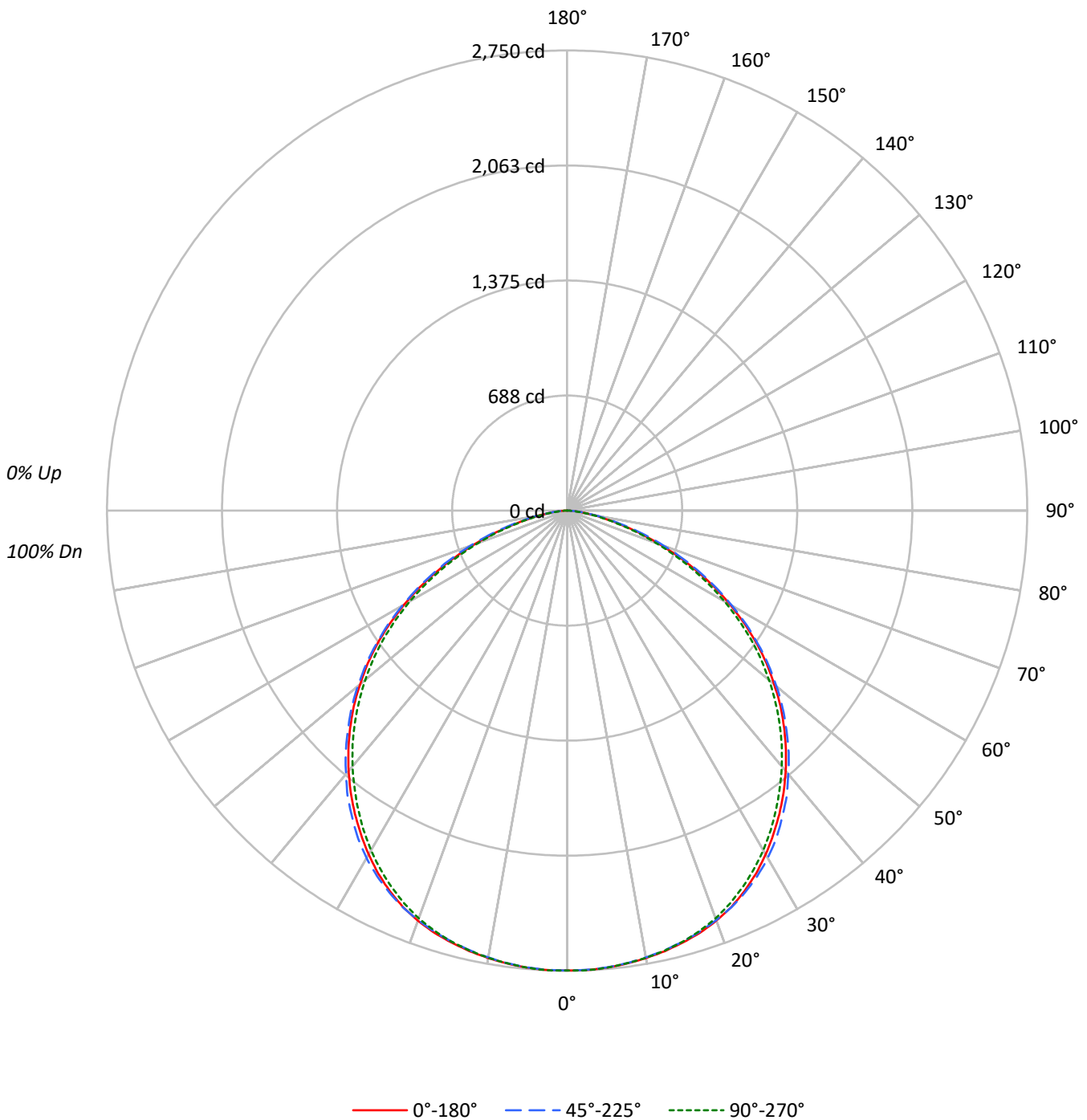
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7512.0 lumens
Efficiency: N/A
Efficacy: 97.1 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): 77.4
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°	3698	3698	3698
5°	3703	3701	3704
10°	3710	3705	3708
15°	3722	3715	3716
20°	3735	3729	3713
25°	3724	3738	3686
30°	3687	3726	3641
35°	3633	3679	3578
40°	3569	3612	3505
45°	3488	3526	3416
50°	3380	3418	3297
55°	3241	3270	3145
60°	3026	3061	2921
65°	2727	2795	2620
70°	2315	2417	2222
75°	1793	1923	1710
80°	1333	1392	1210
85°	823	881	764



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.7	3.5
10°-20°	753.7	10.0
20°-30°	1154.2	15.4
30°-40°	1388.5	18.5
40°-50°	1415.9	18.8
50°-60°	1227.5	16.3
60°-70°	851.0	11.3
70°-80°	388.7	5.2
80°-90°	71.8	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°	2168.6	28.9
0°-40°	3557.1	47.4
0°-60°	6200.5	82.5
0°-90°	7512.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7512.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2748	2748	2748	2748	2748	
5°	2741	2741	2740	2738	2742	261
15°	2672	2671	2667	2664	2668	755
25°	2508	2515	2518	2496	2483	1155
35°	2212	2235	2240	2211	2178	1383
45°	1833	1856	1853	1828	1795	1413
55°	1382	1390	1394	1360	1341	1231
65°	856	875	878	848	823	847
75°	345	364	370	358	329	377
85°	53	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°	2748.3	2748.3	2748.3	2748.3	2748.3
2.5°	2748.3	2748.3	2746.8	2745.2	2749.8
5°	2741.4	2741.4	2739.9	2738.4	2742.2
7.5°	2730.8	2730.0	2728.5	2727.0	2729.2
10°	2715.5	2714.8	2711.7	2711.0	2714.0
12.5°	2696.5	2695.7	2691.2	2691.2	2693.5
15°	2672.1	2671.4	2666.8	2664.5	2667.6
17.5°	2644.7	2644.0	2638.6	2632.6	2634.1
20°	2608.2	2608.2	2604.4	2595.3	2593.0
22.5°	2564.0	2566.3	2566.3	2548.8	2542.0
25°	2508.5	2515.3	2517.6	2495.5	2482.6
27.5°	2445.3	2455.9	2462.0	2433.9	2417.1
30°	2373.0	2390.5	2398.1	2367.6	2343.3
32.5°	2293.8	2315.9	2325.0	2295.3	2264.1
35°	2211.6	2235.2	2239.7	2210.8	2178.1
37.5°	2124.0	2148.4	2154.5	2128.6	2088.2
40°	2031.9	2056.3	2056.3	2034.9	1995.4
42.5°	1934.4	1960.3	1959.6	1933.7	1897.9
45°	1833.2	1856.0	1853.0	1827.9	1795.1
47.5°	1728.9	1743.4	1747.2	1717.5	1686.3
50°	1614.7	1629.2	1633.0	1599.5	1575.1
52.5°	1502.0	1511.2	1516.5	1477.7	1460.2
55°	1381.7	1390.1	1393.9	1359.7	1340.6
57.5°	1254.6	1265.3	1269.8	1235.6	1214.3
60°	1124.4	1135.9	1137.4	1105.4	1085.6
62.5°	992.0	1007.2	1010.2	978.3	954.7
65°	856.5	874.7	877.8	848.1	823.0
67.5°	720.9	745.3	746.1	721.7	692.0
70°	588.5	615.1	614.4	593.8	564.9
72.5°	462.1	486.5	491.8	472.8	444.6
75°	344.9	363.9	370.0	357.8	328.9
77.5°	245.1	262.6	268.0	256.6	235.2
80°	172.1	172.8	179.7	170.5	156.1
82.5°	106.6	105.1	107.3	103.5	95.2
85°	53.3	54.8	57.1	54.1	49.5
87.5°	18.3	19.0	20.6	20.6	18.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)