

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: P413279

Luminaire Tested: **24PD-85-PC3-L950**

Issue Date: 9/15/2020



**Test Information**

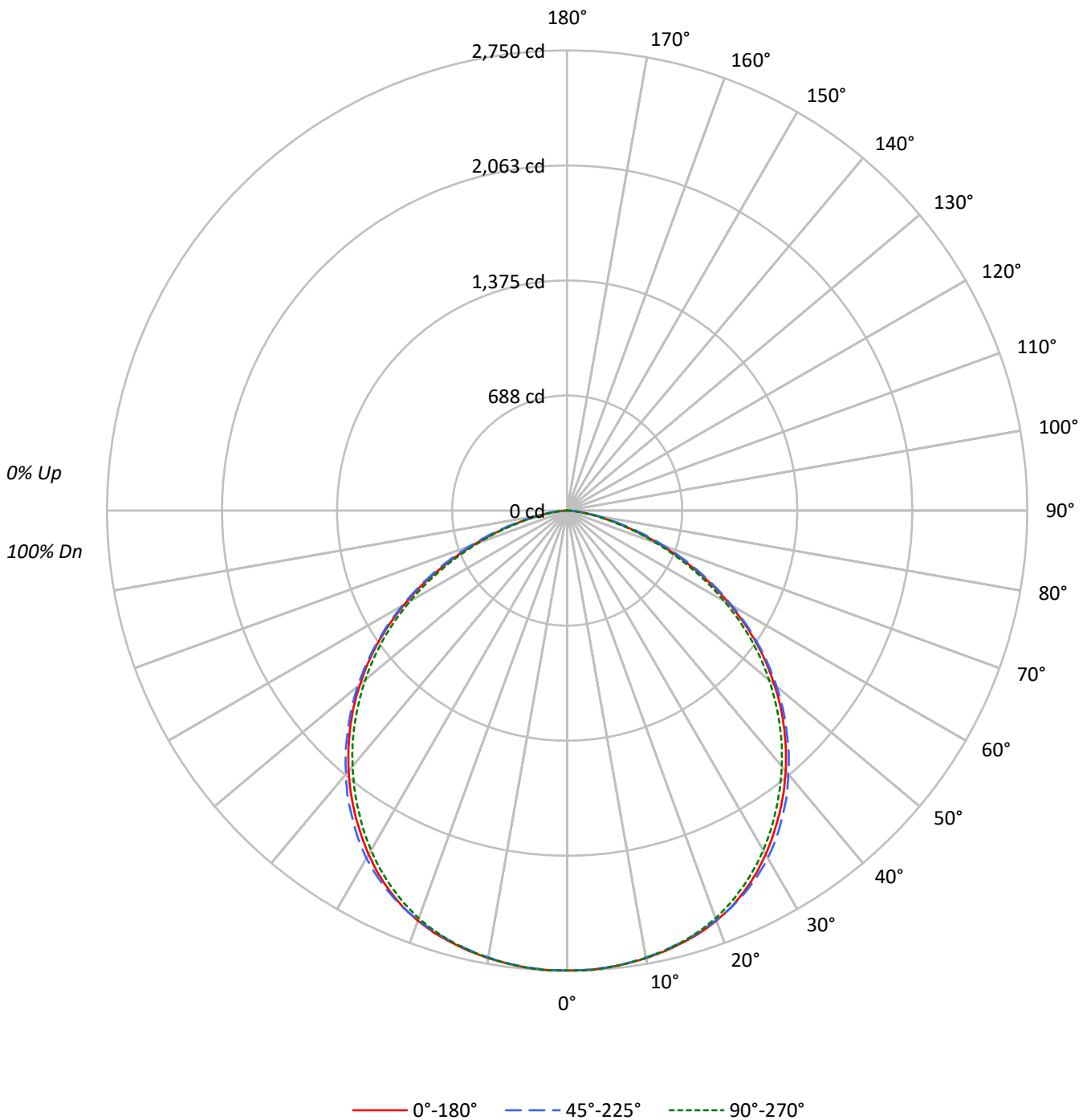
Test Method: LM-79-08  
Report Number: P413279  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-46)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-85-PC3-L950  
Description: 8500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 5000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7513.0 lumens  
Efficiency: N/A  
Efficacy: 116.5 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): 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	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°	3711	3705	3709
15°	3723	3715	3716
20°	3735	3730	3713
25°	3725	3738	3686
30°	3687	3726	3641
35°	3633	3679	3578
40°	3569	3612	3505
45°	3489	3526	3416
50°	3380	3419	3297
55°	3242	3270	3145
60°	3026	3061	2922
65°	2727	2795	2621
70°	2316	2417	2223
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°	753.8	10.0
20°-30°	1154.4	15.4
30°-40°	1388.7	18.5
40°-50°	1416.1	18.8
50°-60°	1227.7	16.3
60°-70°	851.1	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°	2168.9	28.9
0°-40°	3557.6	47.4
0°-60°	6201.3	82.5
0°-90°	7513.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7513.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2749	2749	2749	2749	2749	
5°	2742	2742	2740	2739	2742	261
15°	2672	2672	2667	2665	2668	755
25°	2509	2516	2518	2496	2483	1155
35°	2212	2236	2240	2211	2178	1383
45°	1833	1856	1853	1828	1795	1413
55°	1382	1390	1394	1360	1341	1231
65°	857	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°	2748.6	2748.6	2748.6	2748.6	2748.6
2.5°	2748.6	2748.6	2747.1	2745.6	2750.2
5°	2741.8	2741.8	2740.3	2738.7	2742.5
7.5°	2731.1	2730.4	2728.8	2727.3	2729.6
10°	2715.9	2715.1	2712.1	2711.3	2714.4
12.5°	2696.9	2696.1	2691.5	2691.5	2693.8
15°	2672.5	2671.7	2667.2	2664.9	2667.9
17.5°	2645.1	2644.3	2639.0	2632.9	2634.4
20°	2608.5	2608.5	2604.7	2595.6	2593.3
22.5°	2564.4	2566.7	2566.7	2549.2	2542.3
25°	2508.8	2515.7	2517.9	2495.9	2482.9
27.5°	2445.6	2456.3	2462.4	2434.2	2417.4
30°	2373.3	2390.8	2398.4	2367.9	2343.6
32.5°	2294.1	2316.2	2325.3	2295.6	2264.4
35°	2211.9	2235.5	2240.0	2211.1	2178.4
37.5°	2124.3	2148.7	2154.8	2128.9	2088.5
40°	2032.2	2056.5	2056.5	2035.2	1995.6
42.5°	1934.7	1960.6	1959.8	1933.9	1898.2
45°	1833.4	1856.3	1853.2	1828.1	1795.4
47.5°	1729.1	1743.6	1747.4	1717.7	1686.5
50°	1614.9	1629.4	1633.2	1599.7	1575.3
52.5°	1502.2	1511.4	1516.7	1477.9	1460.4
55°	1381.9	1390.3	1394.1	1359.9	1340.8
57.5°	1254.8	1265.4	1270.0	1235.7	1214.4
60°	1124.6	1136.0	1137.5	1105.5	1085.8
62.5°	992.1	1007.3	1010.4	978.4	954.8
65°	856.6	874.8	877.9	848.2	823.1
67.5°	721.0	745.4	746.2	721.8	692.1
70°	588.6	615.2	614.4	593.9	565.0
72.5°	462.2	486.5	491.9	472.8	444.7
75°	344.9	363.9	370.0	357.9	328.9
77.5°	245.2	262.7	268.0	256.6	235.3
80°	172.1	172.8	179.7	170.6	156.1
82.5°	106.6	105.1	107.4	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)