

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: P412934

Luminaire Tested: **24PD-85-PP3-L930**

Issue Date: 9/15/2020



**Test Information**

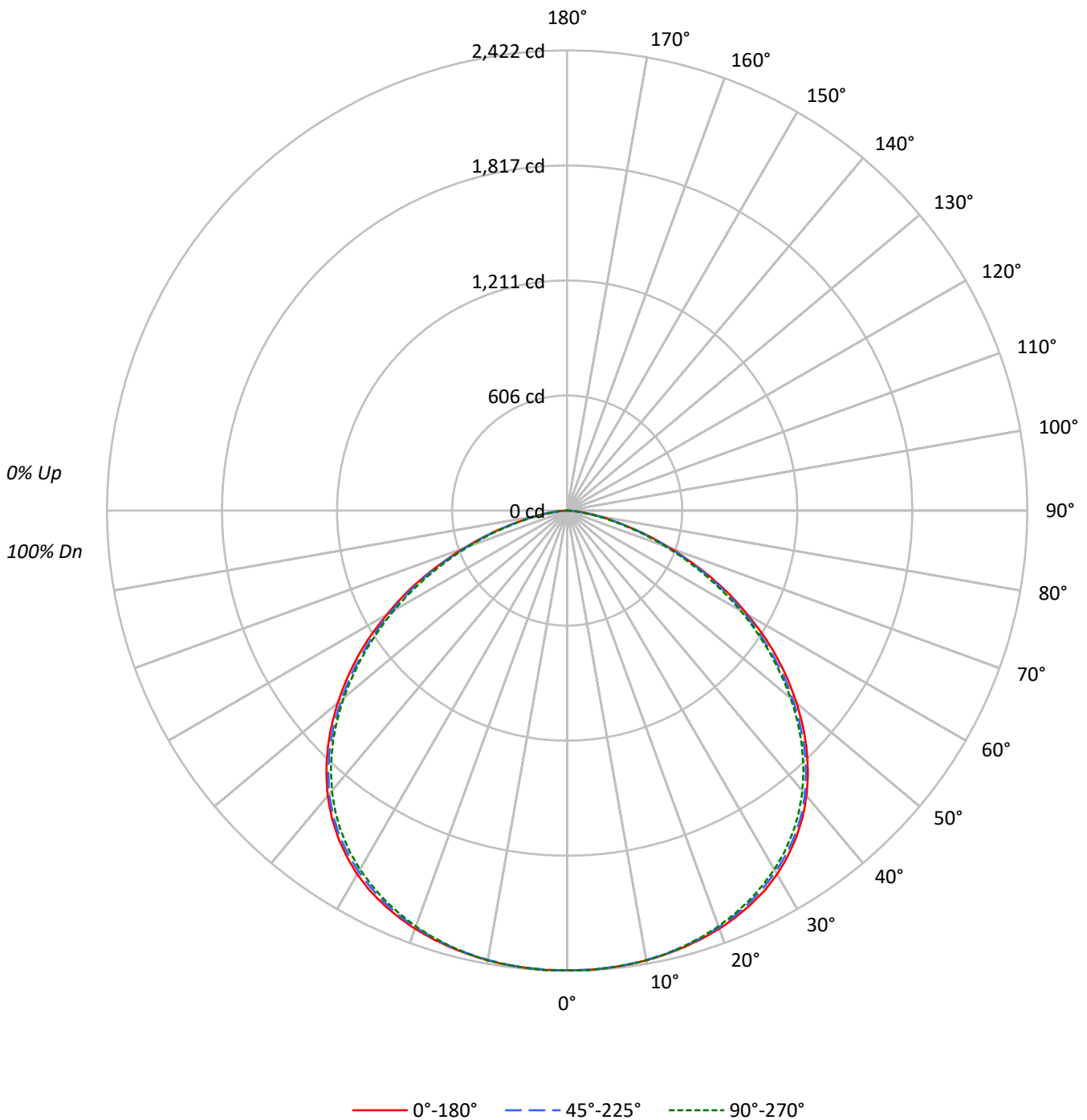
Test Method: LM-79-08  
Report Number: P412934  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-85-PP3-L930  
Description: 8500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 3000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7040.0 lumens  
Efficiency: N/A  
Efficacy: 109.1 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 (A<sub>in</sub>): 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°	3255	3255	3255
5°	3264	3263	3265
10°	3284	3281	3283
15°	3313	3308	3306
20°	3354	3342	3334
25°	3396	3378	3362
30°	3433	3409	3387
35°	3452	3431	3400
40°	3443	3422	3383
45°	3394	3360	3323
50°	3300	3247	3213
55°	3164	3088	3048
60°	2948	2897	2838
65°	2672	2618	2542
70°	2281	2239	2167
75°	1781	1763	1679
80°	1314	1259	1189
85°	794	794	738



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	230.2	3.3
10°-20°	671.7	9.5
20°-30°	1049.9	14.9
30°-40°	1304.8	18.5
40°-50°	1359.5	19.3
50°-60°	1179.7	16.8
60°-70°	811.2	11.5
70°-80°	366.1	5.2
80°-90°	67.1	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°	1951.7	27.7
0°-40°	3256.5	46.3
0°-60°	5795.7	82.3
0°-90°	7040.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7040.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2419	2419	2419	2419	2419	
5°	2417	2417	2416	2414	2417	230
15°	2379	2379	2375	2373	2374	673
25°	2287	2286	2275	2266	2265	1055
35°	2101	2101	2089	2077	2070	1313
45°	1784	1784	1766	1752	1746	1373
55°	1349	1341	1316	1301	1299	1202
65°	839	836	822	803	798	828
75°	343	344	339	330	323	373
85°	51	51	51	51	48	69
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2419.4	2419.4	2419.4	2419.4	2419.4
2.5°	2420.1	2420.1	2418.7	2416.6	2421.6
5°	2416.6	2417.3	2415.9	2413.8	2417.3
7.5°	2411.7	2412.4	2410.3	2408.2	2411.0
10°	2404.0	2403.3	2401.2	2399.7	2403.3
12.5°	2392.7	2392.0	2389.9	2388.5	2391.3
15°	2378.6	2378.6	2375.1	2373.0	2373.7
17.5°	2361.8	2361.8	2356.8	2351.9	2353.3
20°	2342.1	2341.4	2334.3	2329.4	2328.7
22.5°	2317.4	2317.4	2307.6	2301.2	2299.1
25°	2287.2	2286.5	2275.2	2266.1	2264.7
27.5°	2252.7	2251.3	2237.9	2228.8	2225.3
30°	2209.8	2208.4	2194.3	2184.5	2180.2
32.5°	2159.1	2161.2	2145.1	2133.8	2129.6
35°	2101.4	2101.4	2088.8	2076.8	2069.8
37.5°	2035.3	2035.3	2023.4	2011.4	2003.0
40°	1960.0	1960.7	1948.1	1933.3	1926.3
42.5°	1875.6	1877.0	1860.1	1848.2	1840.4
45°	1783.5	1784.2	1765.9	1752.5	1746.2
47.5°	1683.5	1682.1	1661.7	1650.5	1644.2
50°	1576.6	1573.8	1551.3	1540.7	1535.1
52.5°	1464.8	1459.1	1439.4	1423.9	1419.0
55°	1348.7	1340.9	1316.3	1300.8	1299.4
57.5°	1227.7	1218.5	1198.1	1183.3	1177.7
60°	1095.4	1093.3	1076.4	1058.8	1054.6
62.5°	971.6	965.2	950.5	929.4	927.3
65°	839.3	835.8	822.4	802.7	798.5
67.5°	702.8	706.3	695.1	677.5	671.9
70°	579.7	581.8	569.2	553.0	550.9
72.5°	455.9	459.4	448.9	438.3	436.2
75°	342.6	344.0	339.1	330.0	322.9
77.5°	243.4	248.3	242.7	236.4	230.8
80°	169.6	161.8	162.5	159.7	153.4
82.5°	102.0	98.5	97.8	95.0	92.2
85°	51.4	50.7	51.4	50.7	47.8
87.5°	16.9	18.3	19.0	19.0	17.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)