

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: P412817

Luminaire Tested: **22PD-85-PP3-L930**

Issue Date: 9/15/2020



**Test Information**

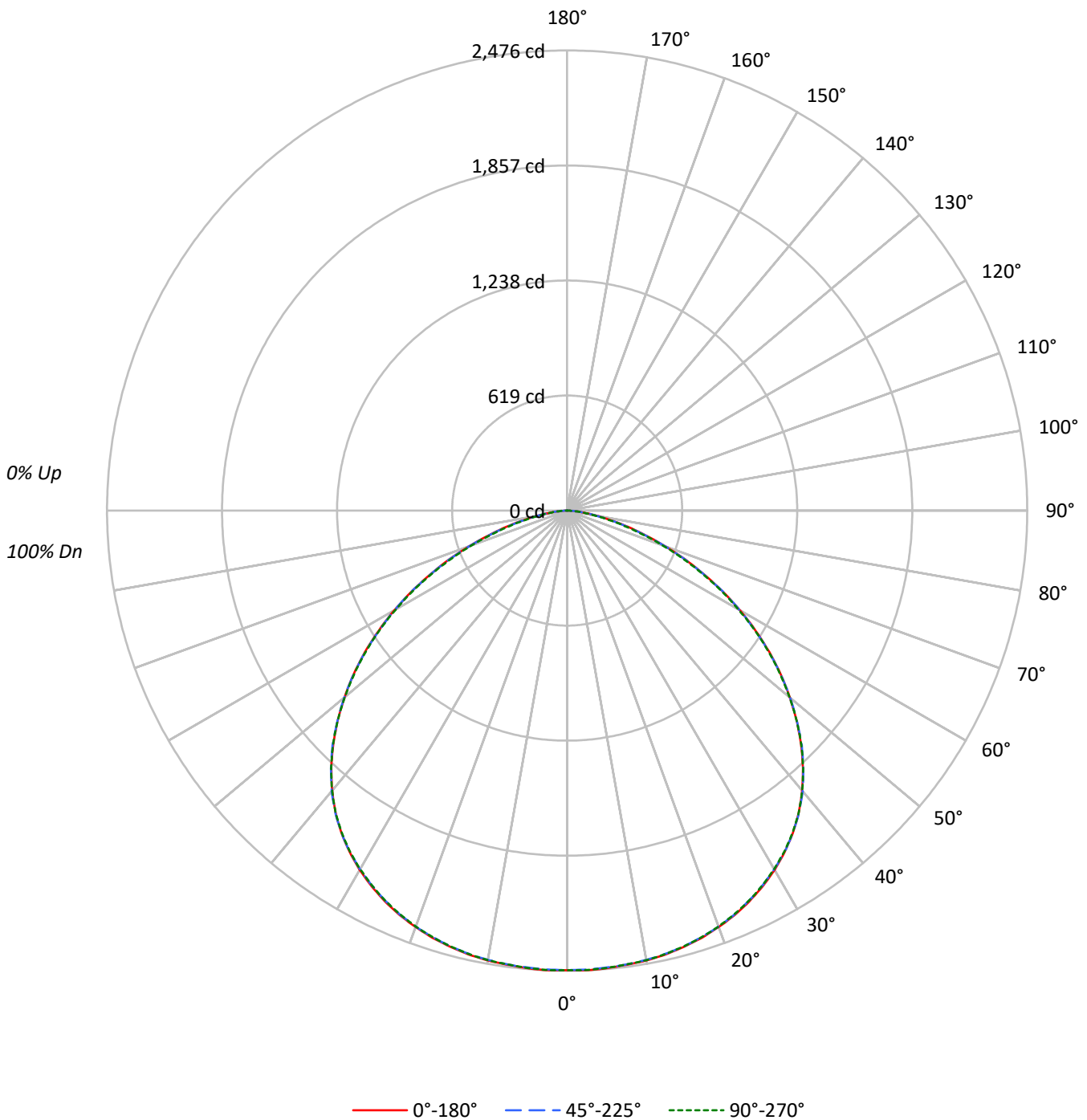
Test Method: LM-79-08  
Report Number: P412817  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-85-PP3-L930  
Description: 8500 LUMEN 2X2 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: 7095.0 lumens  
Efficiency: N/A  
Efficacy: 91.8 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.43  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 77.3  
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	98	95	93		95	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77		83	79	75		80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71	67	63	61
4	84	72	63	57	81	70	62	56	68	61	55		66	60	55		64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48		59	53	47		57	51	47	45
6	71	58	49	43	69	57	48	42	55	48	42		53	47	42		52	46	41	39
7	66	52	44	38	64	52	43	37	50	43	37		49	42	37		47	41	37	35
8	61	48	39	33	60	47	39	33	46	38	33		44	38	33		43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30		41	34	30		40	34	29	28
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°	6655	6655	6655
5°	6676	6667	6671
10°	6717	6708	6712
15°	6770	6763	6763
20°	6829	6822	6819
25°	6889	6877	6877
30°	6937	6925	6922
35°	6957	6957	6949
40°	6912	6926	6912
45°	6775	6793	6784
50°	6547	6557	6540
55°	6233	6217	6206
60°	5786	5773	5728
65°	5168	5163	5105
70°	4418	4392	4294
75°	3519	3417	3314
80°	2507	2456	2329
85°	1630	1630	1581



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	235.2	3.3
10°-20°	686.0	9.7
20°-30°	1068.1	15.1
30°-40°	1322.0	18.6
40°-50°	1370.8	19.3
50°-60°	1181.6	16.7
60°-70°	803.3	11.3
70°-80°	359.5	5.1
80°-90°	68.4	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°	1989.3	28.0
0°-40°	3311.3	46.7
0°-60°	5863.7	82.6
0°-90°	7095.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7095.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2473	2473	2473	2473	2473	
5°	2471	2466	2468	2467	2470	235
15°	2430	2426	2428	2426	2428	687
25°	2320	2317	2316	2315	2316	1070
35°	2118	2115	2118	2115	2115	1323
45°	1780	1778	1785	1781	1783	1370
55°	1328	1324	1325	1323	1323	1185
65°	812	818	811	808	802	806
75°	338	339	329	327	319	364
85°	53	54	53	51	51	69
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2472.9	2472.9	2472.9	2472.9	2472.9
2.5°	2476.2	2471.3	2471.3	2472.1	2474.6
5°	2471.3	2466.3	2468.0	2467.1	2469.6
7.5°	2464.7	2460.5	2463.0	2461.4	2463.0
10°	2458.1	2453.9	2454.8	2453.9	2456.4
12.5°	2446.5	2441.5	2443.2	2443.2	2444.0
15°	2430.0	2425.9	2427.5	2425.9	2427.5
17.5°	2410.2	2405.2	2406.0	2405.2	2406.9
20°	2384.6	2381.3	2382.1	2380.4	2381.3
22.5°	2355.7	2351.5	2352.4	2350.7	2350.7
25°	2320.2	2316.9	2316.0	2315.2	2316.0
27.5°	2278.9	2274.8	2274.8	2273.9	2273.9
30°	2232.6	2228.5	2228.5	2227.7	2227.7
32.5°	2178.2	2176.5	2177.3	2175.7	2174.9
35°	2117.9	2115.4	2117.9	2114.6	2115.4
37.5°	2047.7	2044.4	2049.3	2046.0	2046.9
40°	1967.6	1966.0	1971.7	1969.3	1967.6
42.5°	1878.4	1878.4	1880.9	1881.7	1880.1
45°	1780.2	1778.5	1785.1	1781.0	1782.7
47.5°	1674.5	1672.0	1677.0	1676.1	1675.3
50°	1563.8	1562.2	1566.3	1562.2	1562.2
52.5°	1449.1	1448.2	1449.1	1444.9	1444.1
55°	1328.5	1323.6	1325.2	1322.7	1322.7
57.5°	1203.0	1197.2	1198.1	1197.2	1198.1
60°	1075.0	1073.4	1072.6	1068.4	1064.3
62.5°	943.8	945.4	944.6	938.8	934.7
65°	811.6	818.3	810.8	808.3	801.7
67.5°	687.0	689.4	684.5	678.7	671.3
70°	561.5	566.4	558.2	552.4	545.8
72.5°	441.7	445.0	437.6	434.3	426.1
75°	338.5	339.4	328.6	327.0	318.7
77.5°	241.1	244.4	236.1	236.1	227.9
80°	161.8	167.6	158.5	156.1	150.3
82.5°	101.6	102.4	99.9	97.4	95.0
85°	52.8	54.5	52.8	51.2	51.2
87.5°	19.8	20.6	19.8	19.0	19.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)