

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: P412794

Luminaire Tested: **22PD-75-PP3-L830**

Issue Date: 9/15/2020



**Test Information**

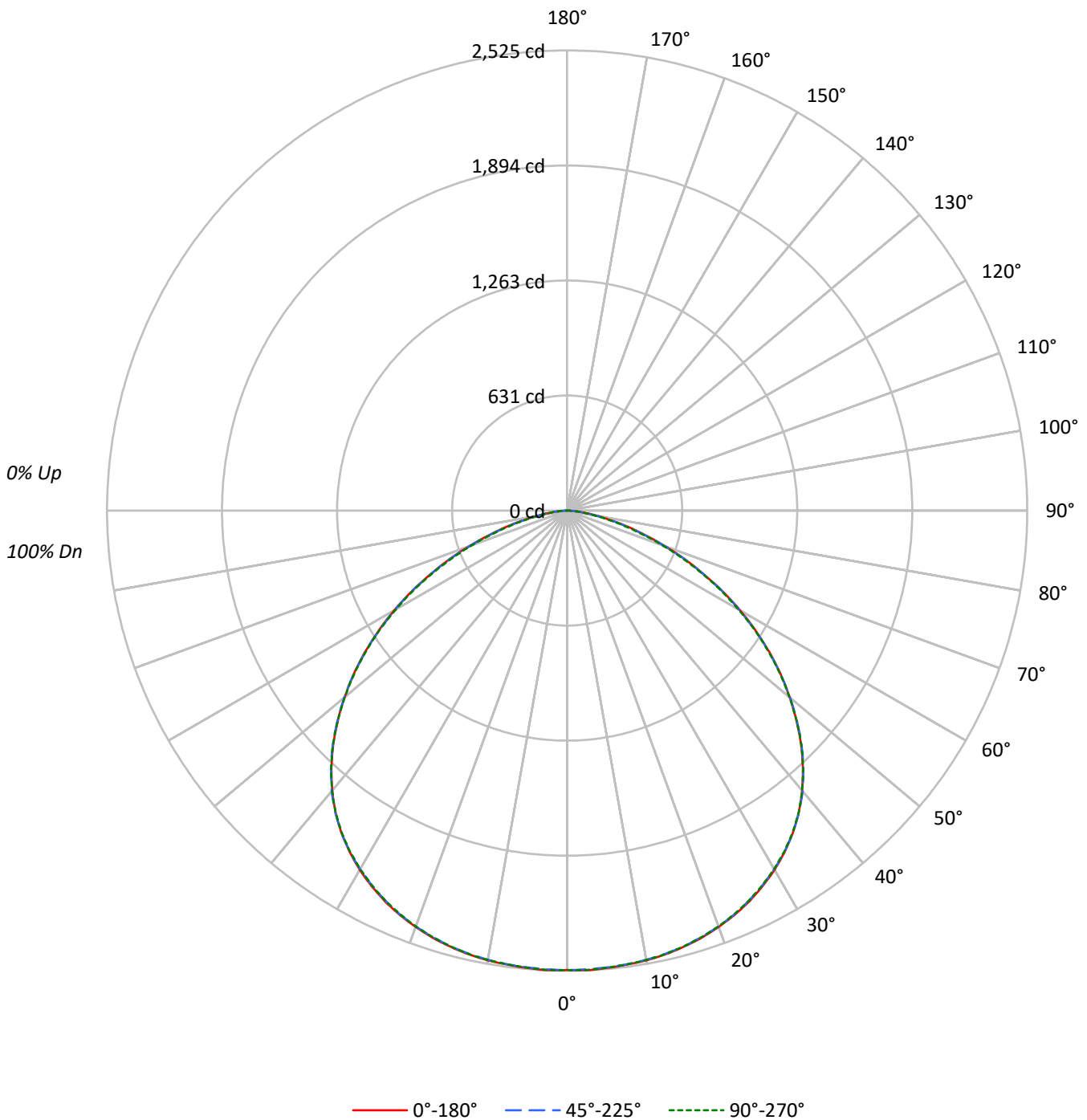
Test Method: LM-79-08  
Report Number: P412794  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-75-PP3-L830  
Description: 7500 LUMEN 2X2 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7234.0 lumens  
Efficiency: N/A  
Efficacy: 107.2 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): 67.5  
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	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°	6785	6785	6785
5°	6806	6797	6802
10°	6848	6839	6844
15°	6902	6895	6895
20°	6962	6955	6953
25°	7024	7011	7011
30°	7073	7060	7058
35°	7094	7094	7085
40°	7047	7062	7047
45°	6908	6927	6917
50°	6675	6686	6668
55°	6355	6339	6328
60°	5899	5886	5841
65°	5269	5264	5205
70°	4504	4478	4378
75°	3589	3484	3379
80°	2557	2504	2374
85°	1664	1664	1612



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	239.8	3.3
10°-20°	699.4	9.7
20°-30°	1089.1	15.1
30°-40°	1347.9	18.6
40°-50°	1397.7	19.3
50°-60°	1204.7	16.7
60°-70°	819.1	11.3
70°-80°	366.5	5.1
80°-90°	69.8	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°	2028.3	28.0
0°-40°	3376.2	46.7
0°-60°	5978.7	82.6
0°-90°	7234.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7234.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2521	2521	2521	2521	2521	
5°	2520	2515	2516	2516	2518	240
15°	2478	2473	2475	2473	2475	700
25°	2366	2362	2361	2361	2361	1091
35°	2159	2157	2159	2156	2157	1349
45°	1815	1813	1820	1816	1818	1397
55°	1355	1350	1351	1349	1349	1208
65°	828	834	827	824	817	822
75°	345	346	335	333	325	371
85°	54	56	54	52	52	71
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2521.4	2521.4	2521.4	2521.4	2521.4
2.5°	2524.7	2519.7	2519.7	2520.5	2523.1
5°	2519.7	2514.6	2516.3	2515.5	2518.0
7.5°	2513.0	2508.7	2511.3	2509.6	2511.3
10°	2506.2	2502.0	2502.9	2502.0	2504.5
12.5°	2494.4	2489.4	2491.1	2491.1	2491.9
15°	2477.6	2473.4	2475.1	2473.4	2475.1
17.5°	2457.4	2452.3	2453.2	2452.3	2454.0
20°	2431.3	2427.9	2428.8	2427.1	2427.9
22.5°	2401.8	2397.6	2398.5	2396.8	2396.8
25°	2365.6	2362.3	2361.4	2360.6	2361.4
27.5°	2323.5	2319.3	2319.3	2318.5	2318.5
30°	2276.4	2272.2	2272.2	2271.3	2271.3
32.5°	2220.8	2219.1	2220.0	2218.3	2217.5
35°	2159.4	2156.8	2159.4	2156.0	2156.8
37.5°	2087.8	2084.4	2089.5	2086.1	2087.0
40°	2006.2	2004.5	2010.4	2007.8	2006.2
42.5°	1915.2	1915.2	1917.8	1918.6	1916.9
45°	1815.1	1813.4	1820.1	1815.9	1817.6
47.5°	1707.3	1704.8	1709.8	1709.0	1708.1
50°	1594.5	1592.8	1597.0	1592.8	1592.8
52.5°	1477.5	1476.6	1477.5	1473.3	1472.4
55°	1354.6	1349.5	1351.2	1348.7	1348.7
57.5°	1226.6	1220.7	1221.5	1220.7	1221.5
60°	1096.1	1094.4	1093.6	1089.4	1085.2
62.5°	962.2	963.9	963.1	957.2	953.0
65°	827.5	834.3	826.7	824.2	817.4
67.5°	700.4	703.0	697.9	692.0	684.4
70°	572.5	577.5	569.1	563.2	556.5
72.5°	450.4	453.8	446.2	442.8	434.4
75°	345.2	346.0	335.1	333.4	325.0
77.5°	245.8	249.2	240.8	240.8	232.4
80°	165.0	170.9	161.6	159.1	153.2
82.5°	103.5	104.4	101.9	99.3	96.8
85°	53.9	55.6	53.9	52.2	52.2
87.5°	20.2	21.0	20.2	19.4	20.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)