

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: P412797

Luminaire Tested: **22PD-75-PP3-L850**

Issue Date: 9/15/2020



**Test Information**

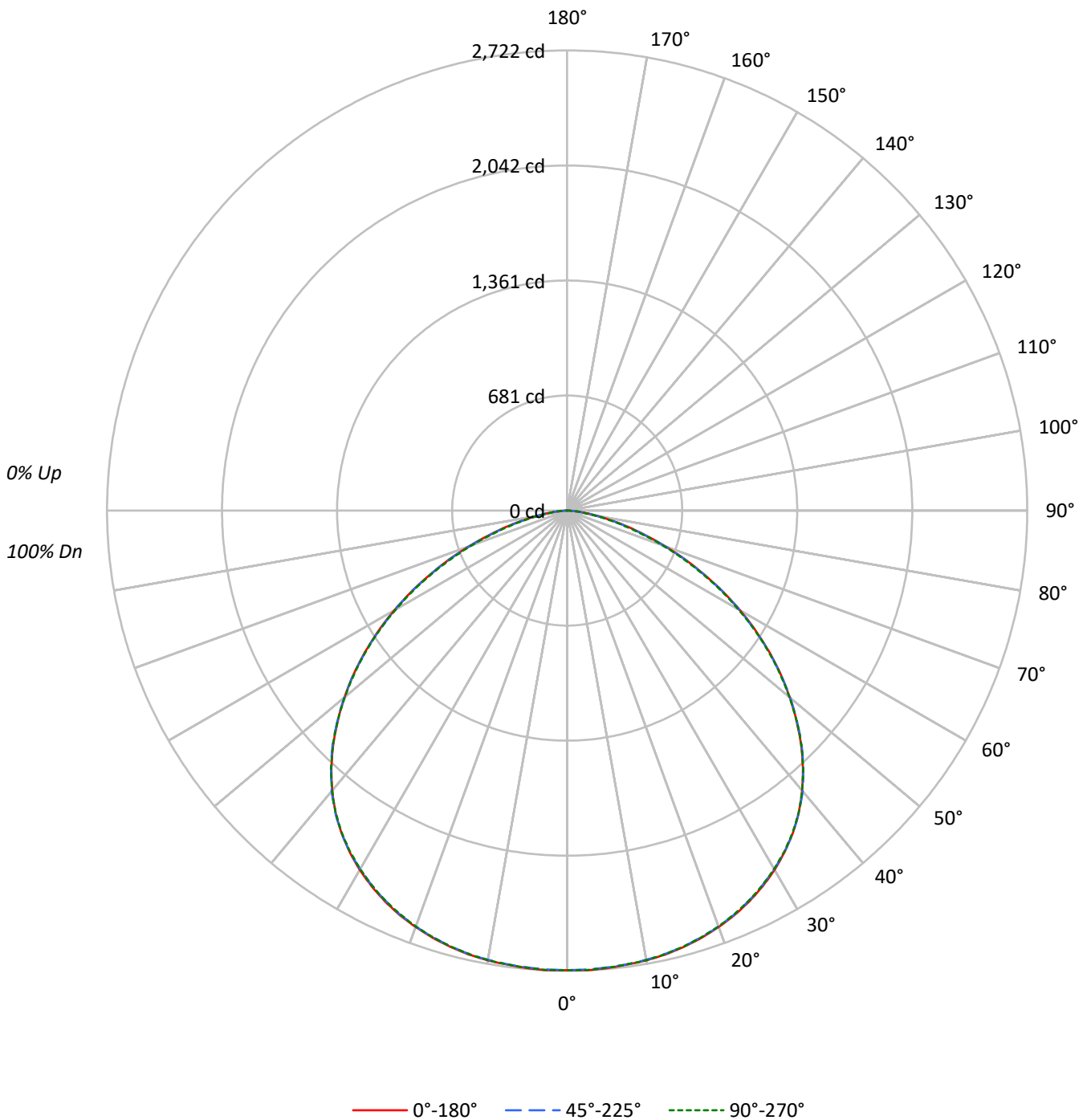
Test Method: LM-79-08  
Report Number: P412797  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-75-PP3-L850  
Description: 7500 LUMEN 2X2 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7799.0 lumens  
Efficiency: N/A  
Efficacy: 115.5 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

TEST NUMBER: P412797  
CATALOG NUMBER: 22PD-75-PP3-L850

### 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°	7315	7315	7315
5°	7338	7328	7333
10°	7383	7373	7378
15°	7441	7434	7434
20°	7506	7499	7496
25°	7573	7559	7559
30°	7626	7612	7609
35°	7648	7648	7639
40°	7598	7614	7598
45°	7447	7468	7457
50°	7196	7208	7189
55°	6851	6834	6822
60°	6360	6345	6296
65°	5681	5675	5612
70°	4856	4827	4720
75°	3869	3755	3642
80°	2757	2701	2560
85°	1794	1794	1738



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	258.5	3.3
10°-20°	754.1	9.7
20°-30°	1174.1	15.1
30°-40°	1453.2	18.6
40°-50°	1506.9	19.3
50°-60°	1298.8	16.7
60°-70°	883.0	11.3
70°-80°	395.1	5.1
80°-90°	75.2	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°	2186.7	28.0
0°-40°	3639.9	46.7
0°-60°	6445.6	82.6
0°-90°	7799.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7799.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2718	2718	2718	2718	2718	
5°	2716	2711	2713	2712	2715	259
15°	2671	2667	2668	2667	2668	755
25°	2550	2547	2546	2545	2546	1176
35°	2328	2325	2328	2324	2325	1454
45°	1957	1955	1962	1958	1960	1506
55°	1460	1455	1457	1454	1454	1302
65°	892	899	891	889	881	886
75°	372	373	361	359	350	400
85°	58	60	58	56	56	76
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2718.3	2718.3	2718.3	2718.3	2718.3
2.5°	2721.9	2716.5	2716.5	2717.4	2720.1
5°	2716.5	2711.0	2712.9	2711.9	2714.7
7.5°	2709.2	2704.7	2707.4	2705.6	2707.4
10°	2702.0	2697.4	2698.3	2697.4	2700.1
12.5°	2689.3	2683.8	2685.6	2685.6	2686.5
15°	2671.1	2666.6	2668.4	2666.6	2668.4
17.5°	2649.3	2643.9	2644.8	2643.9	2645.7
20°	2621.2	2617.6	2618.5	2616.6	2617.6
22.5°	2589.4	2584.9	2585.8	2584.0	2584.0
25°	2550.4	2546.8	2545.9	2544.9	2545.9
27.5°	2505.0	2500.5	2500.5	2499.6	2499.6
30°	2454.2	2449.6	2449.6	2448.7	2448.7
32.5°	2394.3	2392.5	2393.4	2391.6	2390.7
35°	2328.0	2325.3	2328.0	2324.4	2325.3
37.5°	2250.9	2247.2	2252.7	2249.1	2250.0
40°	2162.8	2161.0	2167.4	2164.7	2162.8
42.5°	2064.8	2064.8	2067.5	2068.4	2066.6
45°	1956.8	1955.0	1962.3	1957.7	1959.5
47.5°	1840.6	1837.9	1843.4	1842.5	1841.5
50°	1719.0	1717.2	1721.7	1717.2	1717.2
52.5°	1592.9	1592.0	1592.9	1588.3	1587.4
55°	1460.3	1454.9	1456.7	1454.0	1454.0
57.5°	1322.4	1316.0	1316.9	1316.0	1316.9
60°	1181.7	1179.9	1179.0	1174.5	1169.9
62.5°	1037.4	1039.2	1038.3	1032.0	1027.4
65°	892.2	899.4	891.3	888.6	881.3
67.5°	755.1	757.9	752.4	746.1	737.9
70°	617.2	622.6	613.5	607.2	599.9
72.5°	485.6	489.2	481.0	477.4	468.3
75°	372.1	373.0	361.2	359.4	350.3
77.5°	265.0	268.7	259.6	259.6	250.5
80°	177.9	184.2	174.3	171.5	165.2
82.5°	111.6	112.5	109.8	107.1	104.4
85°	58.1	59.9	58.1	56.3	56.3
87.5°	21.8	22.7	21.8	20.9	21.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)