

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: P412811

Luminaire Tested: **22PD-80-PP3-L950**

Issue Date: 9/15/2020



**Test Information**

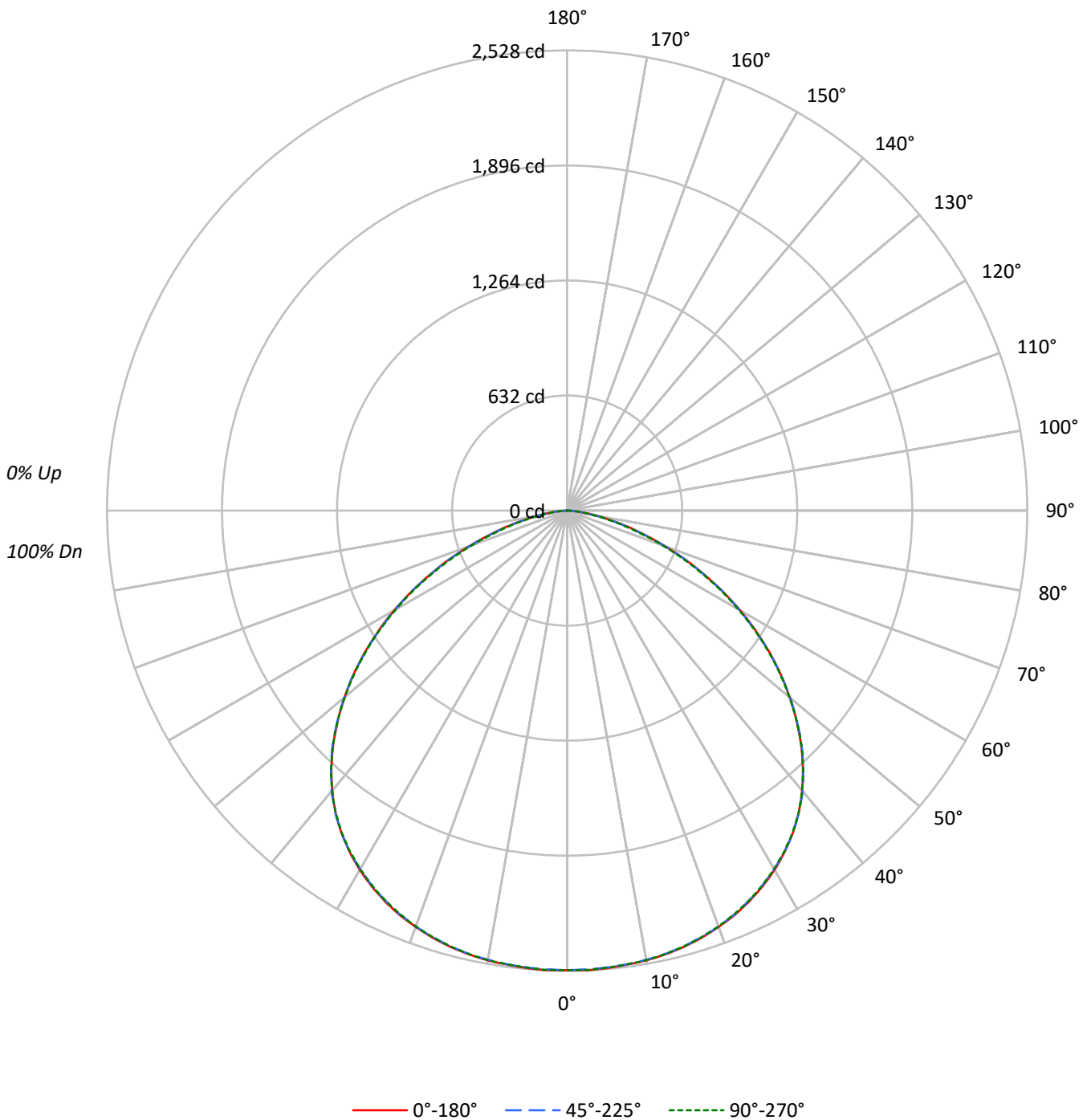
Test Method: LM-79-08  
Report Number: P412811  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-80-PP3-L950  
Description: 8000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 5000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7243.0 lumens  
Efficiency: N/A  
Efficacy: 99.8 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): 72.6  
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°	6793	6793	6793
5°	6815	6806	6810
10°	6857	6848	6852
15°	6911	6904	6904
20°	6971	6964	6961
25°	7033	7020	7020
30°	7082	7069	7067
35°	7103	7103	7094
40°	7056	7071	7056
45°	6916	6935	6925
50°	6684	6694	6677
55°	6363	6347	6335
60°	5907	5893	5847
65°	5276	5270	5212
70°	4510	4483	4384
75°	3593	3488	3383
80°	2560	2507	2377
85°	1664	1664	1615



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	240.1	3.3
10°-20°	700.3	9.7
20°-30°	1090.4	15.1
30°-40°	1349.6	18.6
40°-50°	1399.4	19.3
50°-60°	1206.2	16.7
60°-70°	820.1	11.3
70°-80°	367.0	5.1
80°-90°	69.9	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°	2030.8	28.0
0°-40°	3380.4	46.7
0°-60°	5986.1	82.6
0°-90°	7243.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7243.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2524	2524	2524	2524	2524	
5°	2523	2518	2520	2519	2521	240
15°	2481	2476	2478	2476	2478	701
25°	2369	2365	2364	2364	2364	1092
35°	2162	2160	2162	2159	2160	1350
45°	1817	1816	1822	1818	1820	1399
55°	1356	1351	1353	1350	1350	1209
65°	829	835	828	825	818	823
75°	346	346	336	334	325	372
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°	2524.5	2524.5	2524.5	2524.5	2524.5
2.5°	2527.9	2522.8	2522.8	2523.7	2526.2
5°	2522.8	2517.8	2519.5	2518.6	2521.1
7.5°	2516.1	2511.9	2514.4	2512.7	2514.4
10°	2509.3	2505.1	2506.0	2505.1	2507.7
12.5°	2497.5	2492.5	2494.2	2494.2	2495.0
15°	2480.7	2476.5	2478.1	2476.5	2478.1
17.5°	2460.4	2455.4	2456.2	2455.4	2457.1
20°	2434.3	2430.9	2431.8	2430.1	2430.9
22.5°	2404.8	2400.6	2401.4	2399.8	2399.8
25°	2368.6	2365.2	2364.4	2363.5	2364.4
27.5°	2326.4	2322.2	2322.2	2321.4	2321.4
30°	2279.2	2275.0	2275.0	2274.2	2274.2
32.5°	2223.6	2221.9	2222.7	2221.1	2220.2
35°	2162.1	2159.5	2162.1	2158.7	2159.5
37.5°	2090.4	2087.0	2092.1	2088.7	2089.6
40°	2008.6	2007.0	2012.9	2010.3	2008.6
42.5°	1917.6	1917.6	1920.1	1921.0	1919.3
45°	1817.3	1815.6	1822.4	1818.2	1819.8
47.5°	1709.4	1706.9	1711.9	1711.1	1710.3
50°	1596.5	1594.8	1599.0	1594.8	1594.8
52.5°	1479.3	1478.5	1479.3	1475.1	1474.2
55°	1356.2	1351.2	1352.9	1350.3	1350.3
57.5°	1228.1	1222.2	1223.1	1222.2	1223.1
60°	1097.5	1095.8	1094.9	1090.7	1086.5
62.5°	963.4	965.1	964.3	958.4	954.2
65°	828.6	835.3	827.7	825.2	818.5
67.5°	701.3	703.8	698.8	692.9	685.3
70°	573.2	578.2	569.8	563.9	557.2
72.5°	451.0	454.3	446.7	443.4	434.9
75°	345.6	346.4	335.5	333.8	325.4
77.5°	246.1	249.5	241.1	241.1	232.6
80°	165.2	171.1	161.8	159.3	153.4
82.5°	103.7	104.5	102.0	99.5	96.9
85°	53.9	55.6	53.9	52.3	52.3
87.5°	20.2	21.1	20.2	19.4	20.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)