

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: P412928

Luminaire Tested: **24PD-80-PP3-L950**

Issue Date: 9/15/2020



**Test Information**

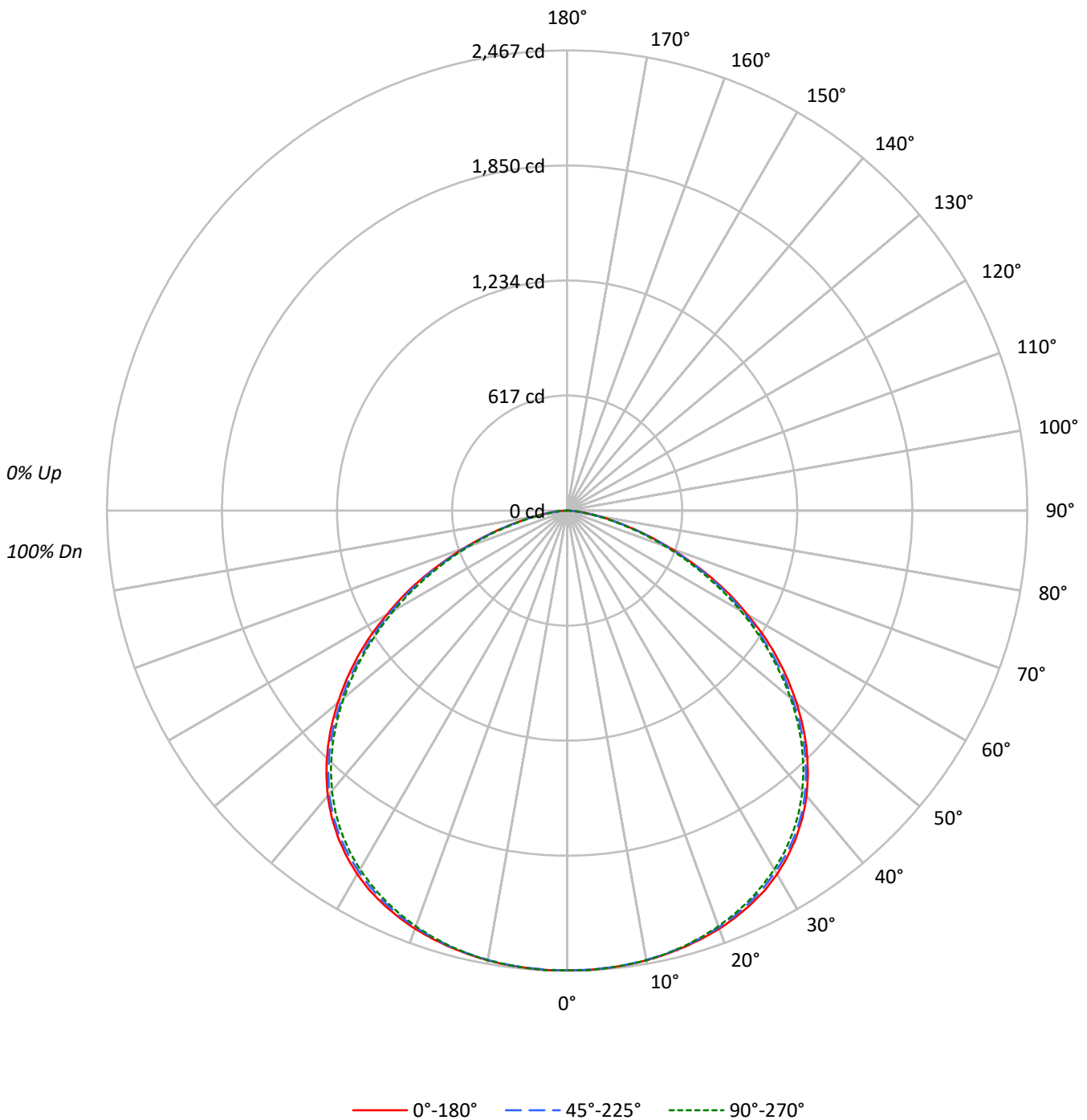
Test Method: LM-79-08  
Report Number: P412928  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-80-PP3-L950  
Description: 8000 LUMEN 2X4 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: 7171.0 lumens  
Efficiency: N/A  
Efficacy: 118.9 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): 60.3  
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

TEST NUMBER: P412928  
CATALOG NUMBER: 24PD-80-PP3-L950

### 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°	3316	3316	3316
5°	3325	3324	3326
10°	3346	3342	3345
15°	3375	3370	3368
20°	3416	3405	3396
25°	3459	3441	3425
30°	3497	3473	3450
35°	3516	3495	3463
40°	3507	3485	3446
45°	3457	3423	3385
50°	3362	3308	3273
55°	3223	3145	3105
60°	3003	2950	2891
65°	2722	2667	2590
70°	2323	2281	2207
75°	1814	1796	1710
80°	1338	1282	1210
85°	807	807	752



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	234.5	3.3
10°-20°	684.2	9.5
20°-30°	1069.4	14.9
30°-40°	1329.1	18.5
40°-50°	1384.8	19.3
50°-60°	1201.6	16.8
60°-70°	826.2	11.5
70°-80°	372.9	5.2
80°-90°	68.3	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°	1988.1	27.7
0°-40°	3317.1	46.3
0°-60°	5903.6	82.3
0°-90°	7171.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7171.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2464	2464	2464	2464	2464	
5°	2462	2462	2461	2459	2462	235
15°	2423	2423	2419	2417	2418	685
25°	2330	2329	2318	2308	2307	1075
35°	2141	2141	2128	2116	2108	1338
45°	1817	1817	1799	1785	1779	1398
55°	1374	1366	1341	1325	1324	1224
65°	855	851	838	818	813	844
75°	349	350	345	336	329	380
85°	52	52	52	52	49	71
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2464.5	2464.5	2464.5	2464.5	2464.5
2.5°	2465.2	2465.2	2463.7	2461.6	2466.6
5°	2461.6	2462.3	2460.9	2458.7	2462.3
7.5°	2456.6	2457.3	2455.1	2453.0	2455.9
10°	2448.7	2448.0	2445.8	2444.4	2448.0
12.5°	2437.2	2436.5	2434.4	2432.9	2435.8
15°	2422.9	2422.9	2419.3	2417.2	2417.9
17.5°	2405.7	2405.7	2400.7	2395.7	2397.1
20°	2385.6	2384.9	2377.8	2372.7	2372.0
22.5°	2360.6	2360.6	2350.5	2344.1	2341.9
25°	2329.7	2329.0	2317.6	2308.2	2306.8
27.5°	2294.6	2293.2	2279.6	2270.3	2266.7
30°	2250.9	2249.5	2235.1	2225.1	2220.8
32.5°	2199.3	2201.5	2185.0	2173.5	2169.2
35°	2140.6	2140.6	2127.7	2115.5	2108.3
37.5°	2073.2	2073.2	2061.0	2048.8	2040.2
40°	1996.5	1997.2	1984.3	1969.3	1962.1
42.5°	1910.5	1911.9	1894.7	1882.6	1874.7
45°	1816.6	1817.4	1798.7	1785.1	1778.7
47.5°	1714.9	1713.4	1692.7	1681.2	1674.7
50°	1606.0	1603.1	1580.2	1569.4	1563.7
52.5°	1492.0	1486.3	1466.2	1450.4	1445.4
55°	1373.8	1365.9	1340.8	1325.0	1323.6
57.5°	1250.5	1241.2	1220.4	1205.4	1199.6
60°	1115.8	1113.6	1096.4	1078.5	1074.2
62.5°	989.7	983.2	968.2	946.7	944.5
65°	854.9	851.3	837.7	817.7	813.4
67.5°	715.9	719.5	708.0	690.1	684.4
70°	590.5	592.6	579.7	563.3	561.1
72.5°	464.4	468.0	457.2	446.5	444.3
75°	349.0	350.4	345.4	336.1	328.9
77.5°	248.0	253.0	247.2	240.8	235.1
80°	172.7	164.8	165.5	162.7	156.2
82.5°	103.9	100.3	99.6	96.7	93.9
85°	52.3	51.6	52.3	51.6	48.7
87.5°	17.2	18.6	19.3	19.3	17.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)