

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: P412577

Luminaire Tested: **24PD-75-PB1-L950**

Issue Date: 9/15/2020



**Test Information**

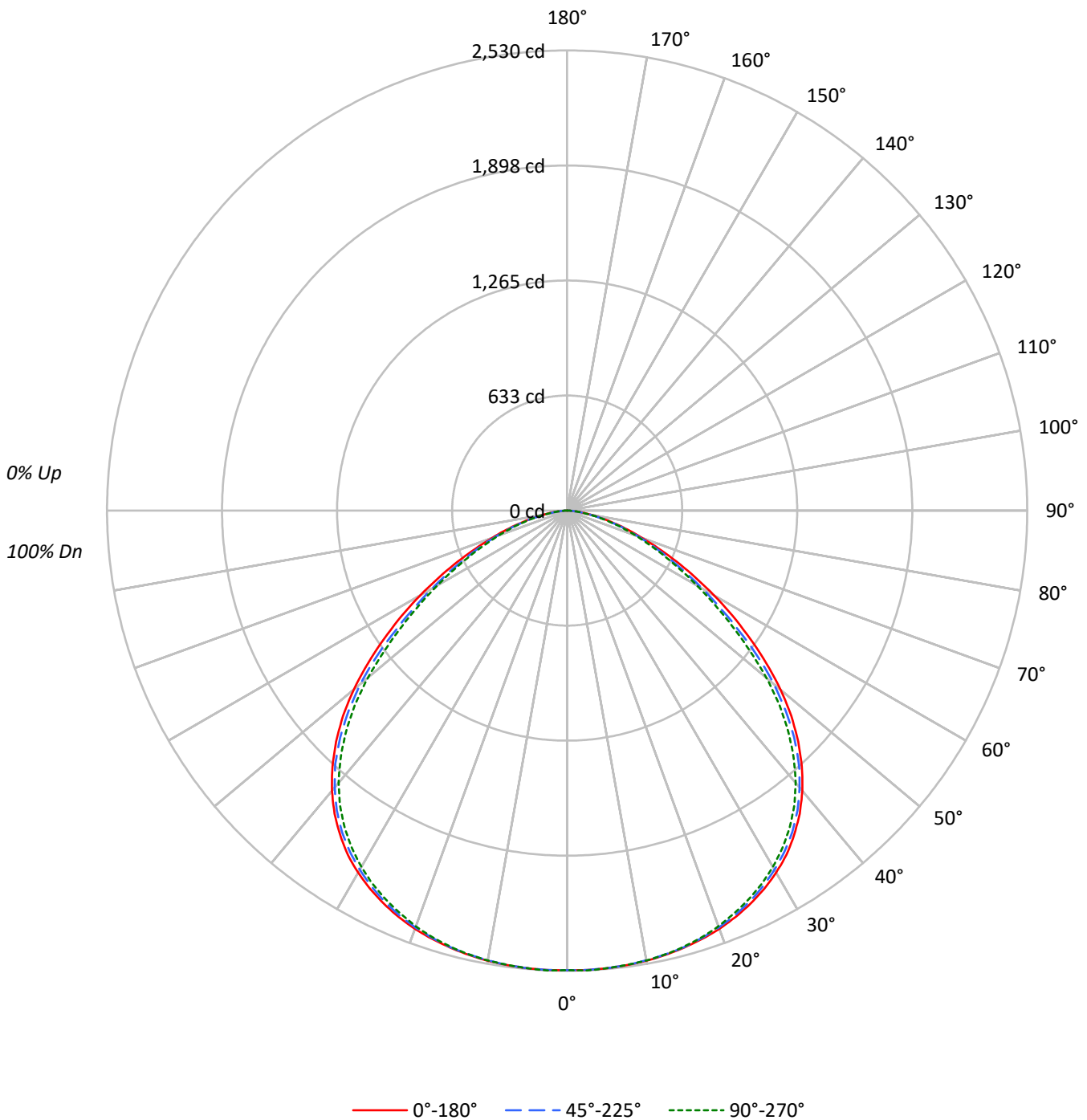
Test Method: LM-79-08  
Report Number: P412577  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-45)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-75-PB1-L950  
Description: 7500 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 5000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6724.0 lumens  
Efficiency: N/A  
Efficacy: 119.4 lumens/watt  
Spacing Criteria (0/90/45): 1.34 / 1.32 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 56.3  
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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	70	59	51	45	57	50	44	55	49	44	54	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	39	33	29	27

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3400	3400	3400
5°	3411	3411	3411
10°	3434	3431	3431
15°	3465	3460	3457
20°	3504	3493	3483
25°	3541	3523	3503
30°	3571	3542	3515
35°	3575	3544	3500
40°	3534	3493	3434
45°	3419	3357	3270
50°	3206	3107	2993
55°	2881	2710	2599
60°	2509	2309	2220
65°	2111	1953	1868
70°	1720	1633	1568
75°	1379	1330	1274
80°	1058	976	950
85°	662	641	641



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	240.6	3.6
10°-20°	702.2	10.4
20°-30°	1094.0	16.3
30°-40°	1345.8	20.0
40°-50°	1351.8	20.1
50°-60°	1041.9	15.5
60°-70°	618.5	9.2
70°-80°	275.4	4.1
80°-90°	53.8	0.8
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°	2036.8	30.3
0°-40°	3382.6	50.3
0°-60°	5776.3	85.9
0°-90°	6724.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6724.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2527	2527	2527	2527	2527	
5°	2526	2526	2526	2523	2526	241
15°	2487	2487	2484	2480	2482	703
25°	2385	2384	2373	2362	2360	1100
35°	2177	2173	2158	2140	2131	1359
45°	1797	1792	1764	1735	1719	1379
55°	1228	1205	1155	1120	1108	1098
65°	663	634	614	590	587	663
75°	265	260	256	247	245	287
85°	43	41	42	40	42	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2527.0	2527.0	2527.0	2527.0	2527.0
2.5°	2528.3	2527.6	2527.6	2525.0	2530.3
5°	2525.6	2526.3	2525.6	2522.9	2525.6
7.5°	2520.3	2520.9	2519.6	2516.9	2519.6
10°	2513.6	2513.6	2510.9	2509.6	2511.6
12.5°	2502.2	2502.2	2499.5	2497.5	2499.5
15°	2487.4	2487.4	2484.1	2480.1	2482.1
17.5°	2469.4	2469.4	2464.0	2458.7	2460.0
20°	2447.3	2446.6	2439.2	2431.9	2432.5
22.5°	2419.1	2418.5	2409.1	2400.4	2397.7
25°	2385.0	2384.3	2372.9	2362.2	2359.5
27.5°	2345.5	2342.8	2330.1	2318.0	2315.3
30°	2298.6	2296.6	2279.8	2267.8	2262.4
32.5°	2244.3	2239.0	2223.6	2208.8	2201.5
35°	2176.7	2173.3	2157.9	2139.8	2131.1
37.5°	2100.3	2097.0	2080.2	2060.1	2050.1
40°	2011.9	2009.2	1988.5	1967.7	1955.0
42.5°	1910.1	1908.1	1886.0	1857.2	1843.8
45°	1796.9	1792.2	1764.1	1734.7	1718.6
47.5°	1671.0	1663.0	1628.8	1600.7	1583.3
50°	1531.7	1521.0	1484.2	1448.0	1429.9
52.5°	1381.0	1362.3	1324.1	1282.6	1265.2
55°	1228.3	1204.9	1155.3	1120.5	1107.8
57.5°	1079.0	1044.8	997.9	973.1	960.4
60°	932.3	894.8	857.9	833.8	825.1
62.5°	792.3	760.8	729.4	705.2	699.9
65°	663.1	634.3	613.5	590.0	586.7
67.5°	542.5	529.1	510.3	490.3	487.6
70°	437.3	432.0	415.2	403.2	398.5
72.5°	348.9	343.6	331.5	322.8	321.5
75°	265.2	259.9	255.8	247.1	245.1
77.5°	188.9	189.5	186.2	181.5	182.8
80°	136.6	128.6	125.9	123.2	122.6
82.5°	83.7	79.0	77.0	76.4	77.7
85°	42.9	40.9	41.5	39.5	41.5
87.5°	14.7	14.7	15.4	14.7	16.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)