

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: P412576

Luminaire Tested: **24PD-75-PB1-L940**

Issue Date: 9/15/2020



**Test Information**

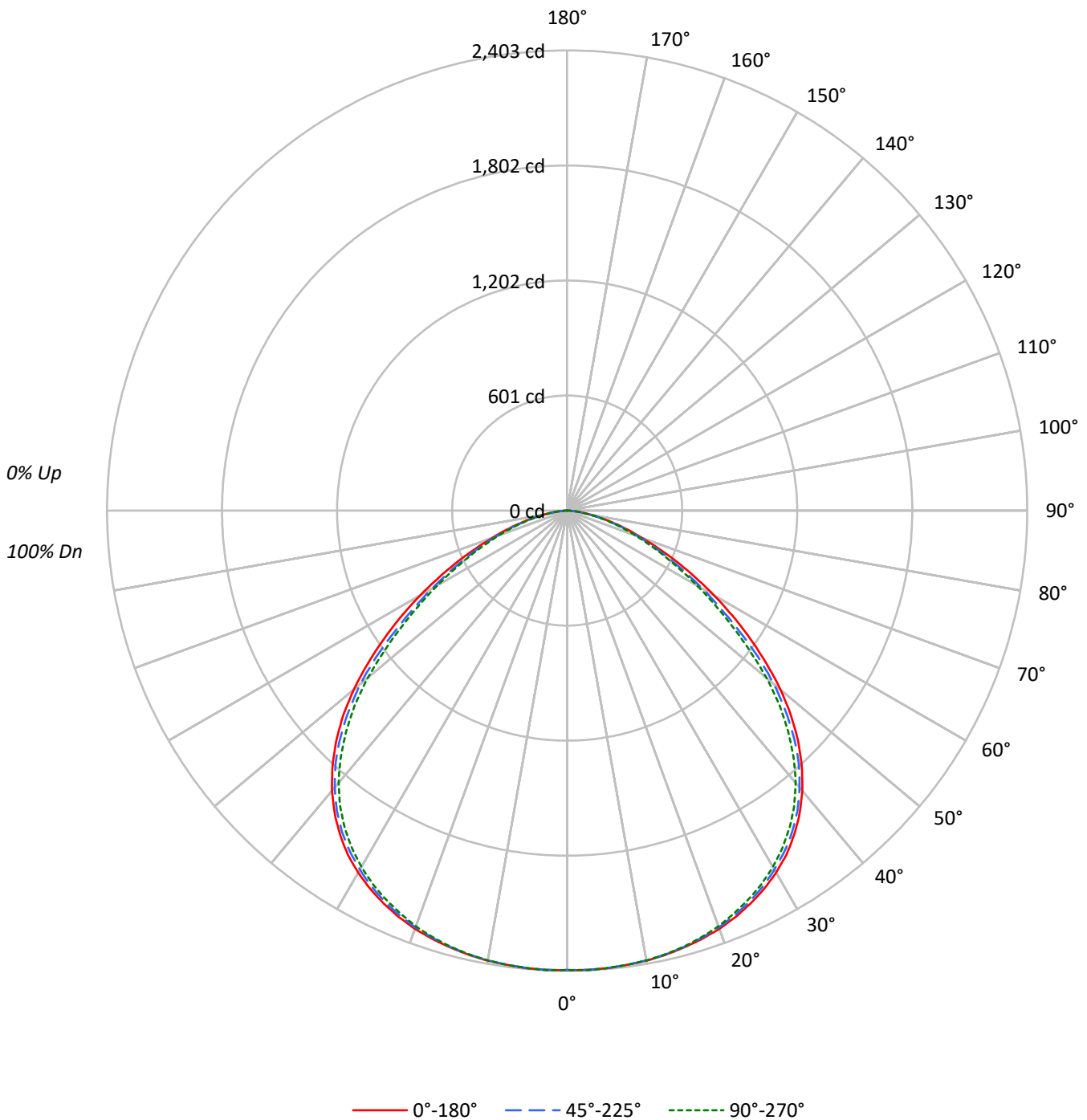
Test Method: LM-79-08  
Report Number: P412576  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-45)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-75-PB1-L940  
Description: 7500 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6385.0 lumens  
Efficiency: N/A  
Efficacy: 113.4 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°	3229	3229	3229
5°	3239	3239	3239
10°	3261	3258	3258
15°	3290	3286	3283
20°	3327	3317	3307
25°	3362	3345	3326
30°	3391	3363	3338
35°	3395	3366	3324
40°	3356	3316	3261
45°	3247	3188	3105
50°	3045	2950	2842
55°	2736	2574	2468
60°	2382	2192	2108
65°	2004	1855	1774
70°	1634	1551	1489
75°	1309	1263	1210
80°	1005	927	902
85°	628	608	608



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	228.5	3.6
10°-20°	666.8	10.4
20°-30°	1038.8	16.3
30°-40°	1278.0	20.0
40°-50°	1283.7	20.1
50°-60°	989.3	15.5
60°-70°	587.3	9.2
70°-80°	261.5	4.1
80°-90°	51.1	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°	1934.1	30.3
0°-40°	3212.1	50.3
0°-60°	5485.1	85.9
0°-90°	6385.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6385.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2400	2400	2400	2400	2400	
5°	2398	2399	2398	2396	2398	229
15°	2362	2362	2359	2355	2357	668
25°	2265	2264	2253	2243	2241	1044
35°	2067	2064	2049	2032	2024	1291
45°	1706	1702	1675	1647	1632	1310
55°	1166	1144	1097	1064	1052	1043
65°	630	602	583	560	557	629
75°	252	247	243	235	233	273
85°	41	39	39	38	39	54
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2399.6	2399.6	2399.6	2399.6	2399.6
2.5°	2400.8	2400.2	2400.2	2397.7	2402.7
5°	2398.3	2398.9	2398.3	2395.7	2398.3
7.5°	2393.2	2393.8	2392.6	2390.0	2392.6
10°	2386.8	2386.8	2384.3	2383.0	2384.9
12.5°	2376.0	2376.0	2373.5	2371.6	2373.5
15°	2362.0	2362.0	2358.9	2355.0	2357.0
17.5°	2344.9	2344.9	2339.8	2334.7	2336.0
20°	2323.9	2323.2	2316.3	2309.3	2309.9
22.5°	2297.2	2296.5	2287.6	2279.4	2276.8
25°	2264.7	2264.1	2253.3	2243.1	2240.6
27.5°	2227.2	2224.7	2212.6	2201.1	2198.6
30°	2182.7	2180.8	2164.9	2153.4	2148.4
32.5°	2131.2	2126.1	2111.5	2097.5	2090.5
35°	2066.9	2063.8	2049.1	2032.0	2023.7
37.5°	1994.4	1991.3	1975.4	1956.3	1946.7
40°	1910.5	1907.9	1888.2	1868.5	1856.4
42.5°	1813.8	1811.9	1790.9	1763.6	1750.9
45°	1706.3	1701.9	1675.2	1647.2	1631.9
47.5°	1586.8	1579.1	1546.7	1520.0	1503.5
50°	1454.5	1444.3	1409.3	1375.0	1357.8
52.5°	1311.4	1293.6	1257.3	1217.9	1201.4
55°	1166.4	1144.1	1097.1	1064.0	1051.9
57.5°	1024.6	992.1	947.6	924.1	912.0
60°	885.3	849.7	814.7	791.8	783.5
62.5°	752.4	722.5	692.6	669.7	664.6
65°	629.6	602.3	582.6	560.3	557.1
67.5°	515.1	502.4	484.6	465.5	463.0
70°	415.3	410.2	394.3	382.9	378.4
72.5°	331.3	326.3	314.8	306.5	305.3
75°	251.8	246.8	242.9	234.7	232.8
77.5°	179.3	180.0	176.8	172.4	173.6
80°	129.7	122.1	119.6	117.0	116.4
82.5°	79.5	75.0	73.1	72.5	73.8
85°	40.7	38.8	39.4	37.5	39.4
87.5°	14.0	14.0	14.6	14.0	15.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)