

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: P412919

Luminaire Tested: **24PD-75-PP3-L950**

Issue Date: 9/15/2020



**Test Information**

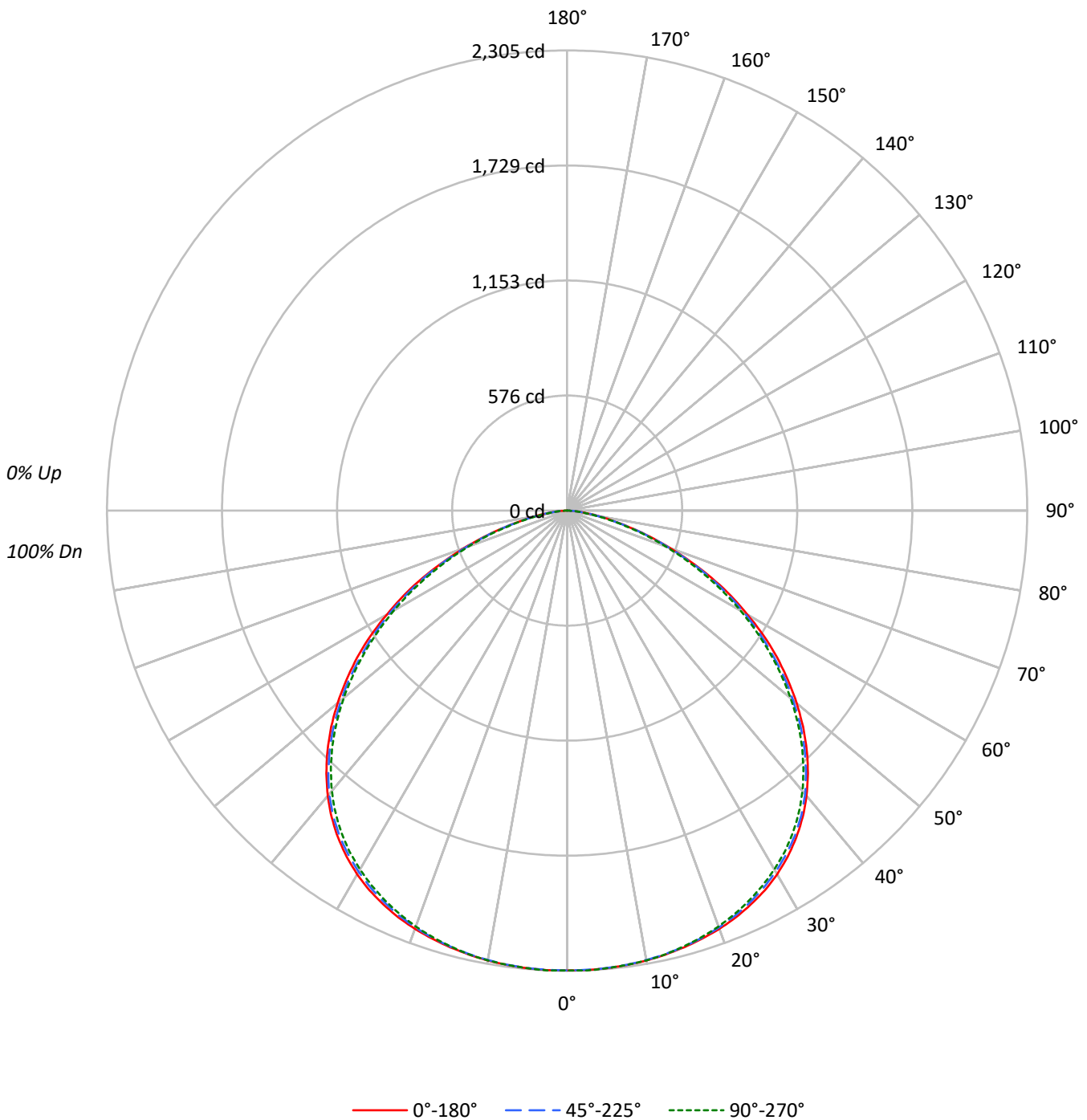
Test Method: LM-79-08  
Report Number: P412919  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-75-PP3-L950  
Description: 7500 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: 6702.0 lumens  
Efficiency: N/A  
Efficacy: 119.0 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): 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	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°	3099	3099	3099
5°	3107	3106	3108
10°	3127	3123	3126
15°	3154	3150	3148
20°	3192	3182	3174
25°	3233	3216	3201
30°	3268	3246	3225
35°	3286	3266	3236
40°	3277	3257	3221
45°	3231	3199	3163
50°	3142	3091	3059
55°	3012	2940	2902
60°	2806	2757	2702
65°	2544	2493	2420
70°	2171	2131	2063
75°	1696	1678	1598
80°	1251	1199	1131
85°	755	755	702



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	219.1	3.3
10°-20°	639.4	9.5
20°-30°	999.5	14.9
30°-40°	1242.2	18.5
40°-50°	1294.2	19.3
50°-60°	1123.0	16.8
60°-70°	772.2	11.5
70°-80°	348.5	5.2
80°-90°	63.9	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°	1858.1	27.7
0°-40°	3100.2	46.3
0°-60°	5517.5	82.3
0°-90°	6702.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6702.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2303	2303	2303	2303	2303	
5°	2301	2301	2300	2298	2301	219
15°	2264	2264	2261	2259	2260	640
25°	2177	2177	2166	2157	2156	1004
35°	2001	2001	1988	1977	1970	1250
45°	1698	1698	1681	1668	1662	1307
55°	1284	1277	1253	1238	1237	1144
65°	799	796	783	764	760	789
75°	326	328	323	314	307	355
85°	49	48	49	48	46	66
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2303.3	2303.3	2303.3	2303.3	2303.3
2.5°	2304.0	2304.0	2302.6	2300.6	2305.3
5°	2300.6	2301.3	2299.9	2297.9	2301.3
7.5°	2295.9	2296.6	2294.6	2292.6	2295.2
10°	2288.5	2287.9	2285.9	2284.5	2287.9
12.5°	2277.8	2277.2	2275.2	2273.8	2276.5
15°	2264.4	2264.4	2261.1	2259.1	2259.7
17.5°	2248.4	2248.4	2243.7	2239.0	2240.3
20°	2229.6	2228.9	2222.2	2217.6	2216.9
22.5°	2206.2	2206.2	2196.8	2190.8	2188.8
25°	2177.4	2176.7	2166.0	2157.3	2155.9
27.5°	2144.6	2143.2	2130.5	2121.8	2118.4
30°	2103.7	2102.4	2089.0	2079.6	2075.6
32.5°	2055.5	2057.5	2042.1	2031.4	2027.3
35°	2000.6	2000.6	1988.5	1977.1	1970.4
37.5°	1937.6	1937.6	1926.2	1914.8	1906.8
40°	1865.9	1866.6	1854.5	1840.5	1833.8
42.5°	1785.6	1786.9	1770.8	1759.4	1752.1
45°	1697.8	1698.5	1681.1	1668.4	1662.3
47.5°	1602.7	1601.4	1582.0	1571.2	1565.2
50°	1500.9	1498.2	1476.8	1466.8	1461.4
52.5°	1394.4	1389.1	1370.3	1355.6	1350.9
55°	1283.9	1276.6	1253.1	1238.4	1237.0
57.5°	1168.7	1160.0	1140.6	1126.5	1121.2
60°	1042.8	1040.8	1024.7	1008.0	1004.0
62.5°	924.9	918.9	904.8	884.7	882.7
65°	799.0	795.7	782.9	764.2	760.2
67.5°	669.1	672.4	661.7	645.0	639.6
70°	551.9	553.9	541.8	526.4	524.4
72.5°	434.0	437.3	427.3	417.3	415.2
75°	326.2	327.5	322.8	314.1	307.4
77.5°	231.7	236.4	231.1	225.0	219.7
80°	161.4	154.0	154.7	152.0	146.0
82.5°	97.1	93.8	93.1	90.4	87.7
85°	48.9	48.2	48.9	48.2	45.5
87.5°	16.1	17.4	18.1	18.1	16.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)