

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: P413207

Luminaire Tested: **24PD-45-PC3-L950**

Issue Date: 9/15/2020



**Test Information**

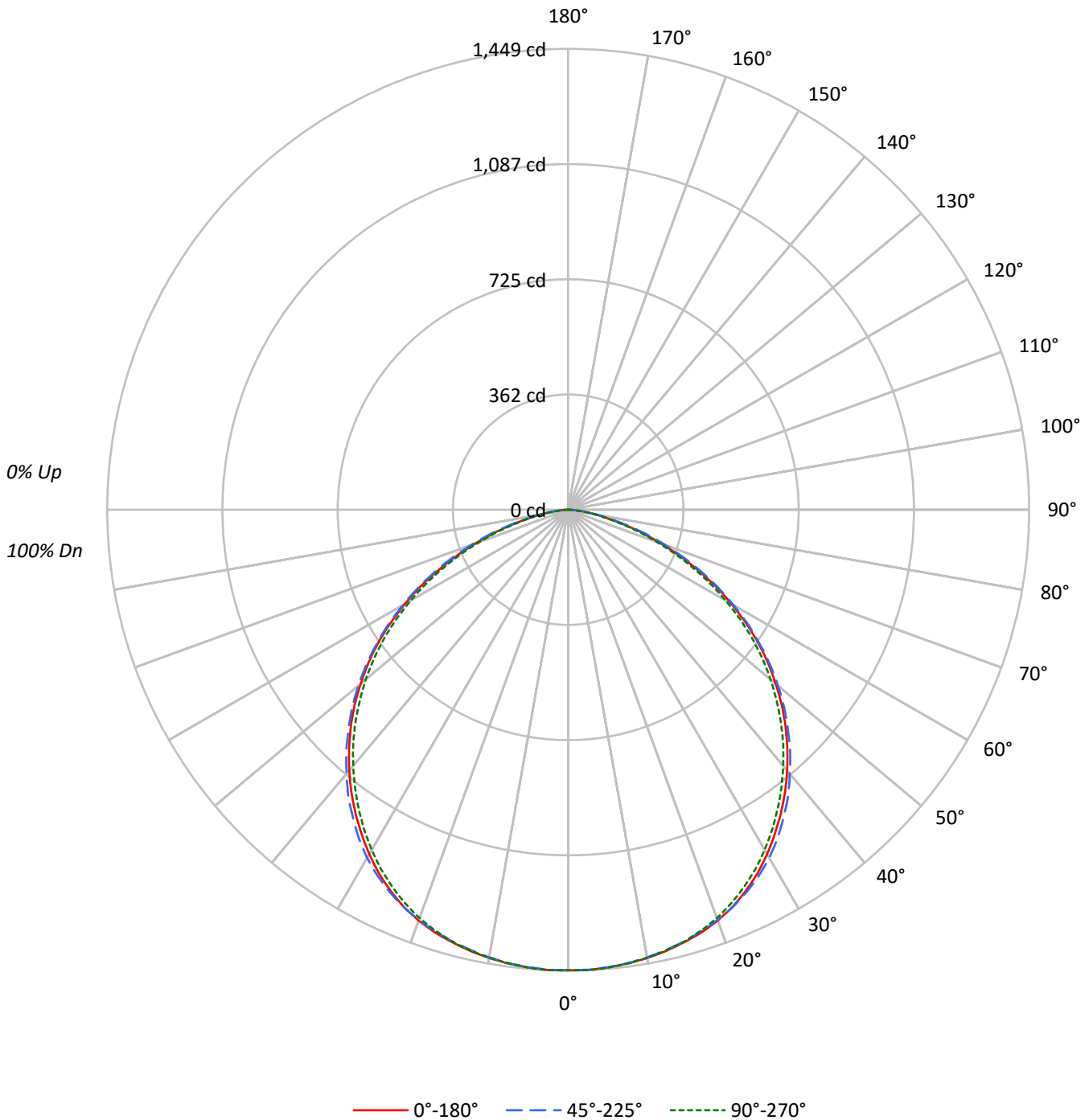
Test Method: LM-79-08  
Report Number: P413207  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-46)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-45-PC3-L950  
Description: 4500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 5000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3959.0 lumens  
Efficiency: N/A  
Efficacy: 118.5 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.38  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 33.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	99	96	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	47	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

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

	0°	45°	90°
0°	1949	1949	1949
5°	1951	1950	1952
10°	1955	1953	1954
15°	1962	1958	1958
20°	1968	1965	1957
25°	1963	1970	1942
30°	1943	1963	1919
35°	1914	1939	1885
40°	1881	1903	1847
45°	1838	1858	1800
50°	1781	1801	1738
55°	1708	1723	1657
60°	1595	1613	1540
65°	1437	1473	1381
70°	1220	1274	1171
75°	945	1014	901
80°	703	734	638
85°	434	465	403



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.4	3.5
10°-20°	397.2	10.0
20°-30°	608.3	15.4
30°-40°	731.8	18.5
40°-50°	746.2	18.8
50°-60°	646.9	16.3
60°-70°	448.5	11.3
70°-80°	204.9	5.2
80°-90°	37.8	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°	1142.9	28.9
0°-40°	1874.7	47.4
0°-60°	3267.8	82.5
0°-90°	3959.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3959.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1448	1448	1448	1448	1448	
5°	1445	1445	1444	1443	1445	137
15°	1408	1408	1406	1404	1406	398
25°	1322	1326	1327	1315	1308	609
35°	1166	1178	1180	1165	1148	729
45°	966	978	977	963	946	745
55°	728	733	735	717	706	649
65°	451	461	463	447	434	446
75°	182	192	195	189	173	199
85°	28	29	30	28	26	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1448.4	1448.4	1448.4	1448.4	1448.4
2.5°	1448.4	1448.4	1447.6	1446.8	1449.2
5°	1444.8	1444.8	1444.0	1443.2	1445.2
7.5°	1439.2	1438.8	1438.0	1437.2	1438.4
10°	1431.2	1430.8	1429.1	1428.7	1430.3
12.5°	1421.1	1420.7	1418.3	1418.3	1419.5
15°	1408.3	1407.9	1405.5	1404.3	1405.9
17.5°	1393.8	1393.4	1390.6	1387.4	1388.2
20°	1374.6	1374.6	1372.6	1367.8	1366.6
22.5°	1351.3	1352.5	1352.5	1343.3	1339.7
25°	1322.0	1325.6	1326.8	1315.2	1308.4
27.5°	1288.7	1294.3	1297.5	1282.7	1273.9
30°	1250.6	1259.8	1263.8	1247.8	1235.0
32.5°	1208.9	1220.5	1225.3	1209.7	1193.2
35°	1165.5	1178.0	1180.4	1165.1	1147.9
37.5°	1119.4	1132.2	1135.5	1121.8	1100.5
40°	1070.9	1083.7	1083.7	1072.5	1051.6
42.5°	1019.5	1033.1	1032.7	1019.1	1000.2
45°	966.1	978.2	976.6	963.3	946.1
47.5°	911.2	918.8	920.8	905.2	888.7
50°	851.0	858.6	860.6	843.0	830.1
52.5°	791.6	796.4	799.2	778.8	769.5
55°	728.2	732.6	734.6	716.6	706.5
57.5°	661.2	666.8	669.2	651.2	639.9
60°	592.6	598.6	599.4	582.6	572.1
62.5°	522.8	530.8	532.4	515.6	503.1
65°	451.4	461.0	462.6	447.0	433.7
67.5°	380.0	392.8	393.2	380.4	364.7
70°	310.1	324.2	323.8	313.0	297.7
72.5°	243.5	256.4	259.2	249.2	234.3
75°	181.8	191.8	195.0	188.6	173.3
77.5°	129.2	138.4	141.2	135.2	124.0
80°	90.7	91.1	94.7	89.9	82.3
82.5°	56.2	55.4	56.6	54.6	50.2
85°	28.1	28.9	30.1	28.5	26.1
87.5°	9.6	10.0	10.8	10.8	9.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)