

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: P412865

Luminaire Tested: **24PD-45-PP3-L950**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412865
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-45-PP3-L950
Description: 4500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

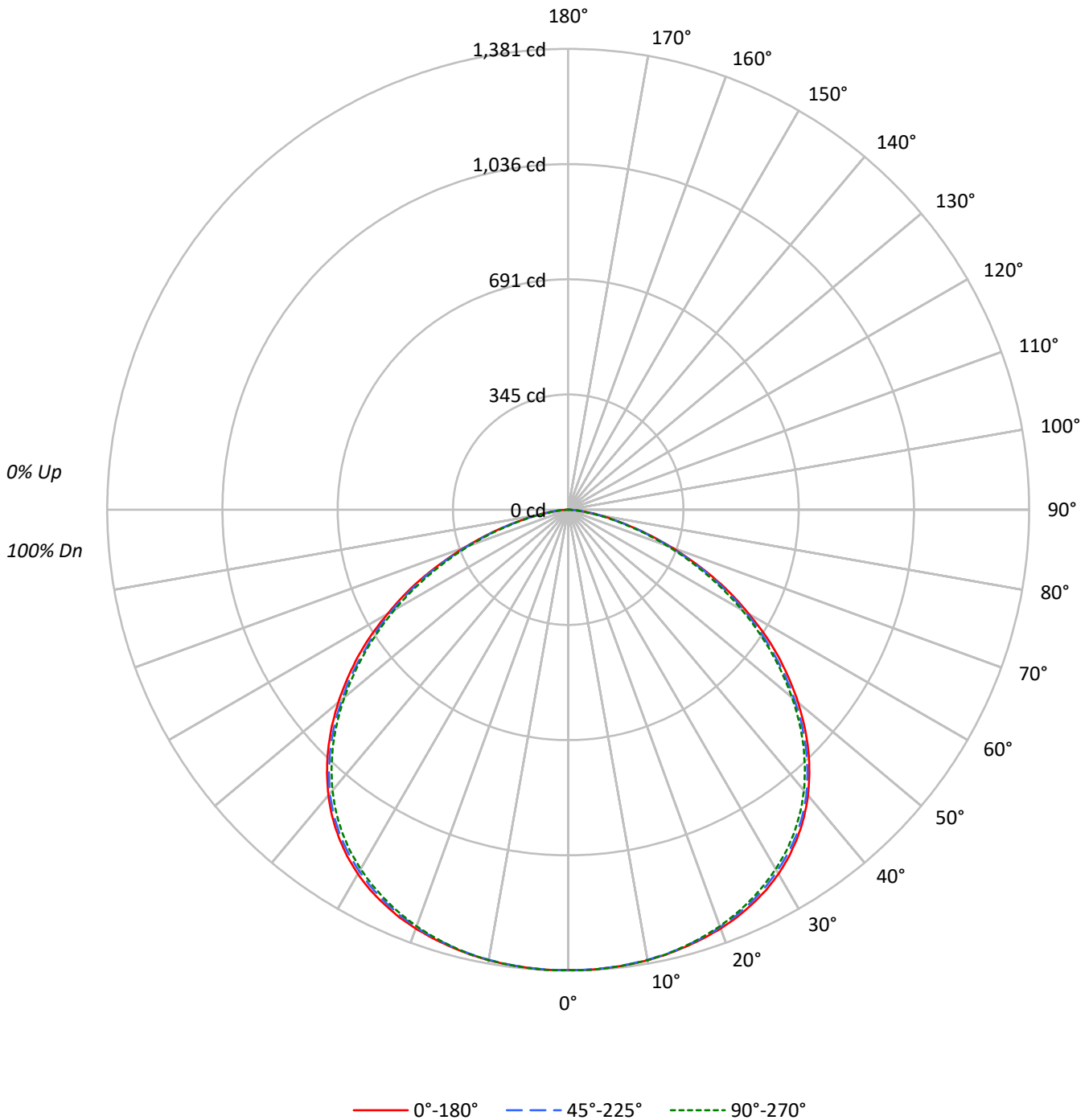
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4015.0 lumens
Efficiency: N/A
Efficacy: 120.2 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): 33.4
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: P412865
CATALOG NUMBER: 24PD-45-PP3-L950

Luminous Intensity Polar Plot





TEST NUMBER: P412865

CATALOG NUMBER: 24PD-45-PP3-L950

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°	1857	1857	1857
5°	1861	1861	1862
10°	1873	1871	1873
15°	1890	1887	1886
20°	1913	1906	1902
25°	1936	1926	1917
30°	1958	1944	1932
35°	1969	1957	1939
40°	1963	1951	1930
45°	1935	1916	1895
50°	1882	1852	1833
55°	1804	1761	1738
60°	1681	1652	1618
65°	1524	1493	1450
70°	1301	1277	1236
75°	1016	1005	958
80°	749	718	678
85°	452	452	421



TEST NUMBER: P412865

CATALOG NUMBER: 24PD-45-PP3-L950

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.3	3.3
10°-20°	383.1	9.5
20°-30°	598.8	14.9
30°-40°	744.1	18.5
40°-50°	775.3	19.3
50°-60°	672.8	16.8
60°-70°	462.6	11.5
70°-80°	208.8	5.2
80°-90°	38.3	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°	1113.1	27.7
0°-40°	1857.2	46.3
0°-60°	3305.4	82.3
0°-90°	4015.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4015.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1380	1380	1380	1380	1380	
5°	1378	1379	1378	1377	1379	131
15°	1357	1357	1355	1353	1354	384
25°	1304	1304	1298	1292	1292	602
35°	1198	1198	1191	1184	1180	749
45°	1017	1018	1007	1000	996	783
55°	769	765	751	742	741	686
65°	479	477	469	458	455	472
75°	195	196	193	188	184	213
85°	29	29	29	29	27	40
90°	0	0	0	0	0	



TEST NUMBER: P412865

CATALOG NUMBER: 24PD-45-PP3-L950

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1379.8	1379.8	1379.8	1379.8	1379.8
2.5°	1380.2	1380.2	1379.4	1378.2	1381.0
5°	1378.2	1378.6	1377.8	1376.6	1378.6
7.5°	1375.4	1375.8	1374.6	1373.4	1375.0
10°	1371.0	1370.6	1369.4	1368.6	1370.6
12.5°	1364.6	1364.2	1363.0	1362.2	1363.8
15°	1356.6	1356.6	1354.6	1353.4	1353.8
17.5°	1346.9	1346.9	1344.1	1341.3	1342.1
20°	1335.7	1335.3	1331.3	1328.5	1328.1
22.5°	1321.7	1321.7	1316.0	1312.4	1311.2
25°	1304.4	1304.0	1297.6	1292.4	1291.6
27.5°	1284.7	1283.9	1276.3	1271.1	1269.1
30°	1260.3	1259.5	1251.4	1245.8	1243.4
32.5°	1231.4	1232.6	1223.4	1216.9	1214.5
35°	1198.5	1198.5	1191.3	1184.4	1180.4
37.5°	1160.8	1160.8	1153.9	1147.1	1142.3
40°	1117.8	1118.2	1111.0	1102.6	1098.6
42.5°	1069.7	1070.5	1060.9	1054.0	1049.6
45°	1017.1	1017.5	1007.1	999.5	995.9
47.5°	960.1	959.3	947.7	941.3	937.7
50°	899.2	897.6	884.7	878.7	875.5
52.5°	835.4	832.2	820.9	812.1	809.3
55°	769.2	764.7	750.7	741.9	741.1
57.5°	700.2	694.9	683.3	674.9	671.7
60°	624.7	623.5	613.9	603.9	601.4
62.5°	554.1	550.5	542.1	530.0	528.8
65°	478.7	476.7	469.0	457.8	455.4
67.5°	400.8	402.8	396.4	386.4	383.2
70°	330.6	331.8	324.6	315.4	314.2
72.5°	260.0	262.0	256.0	250.0	248.8
75°	195.4	196.2	193.4	188.2	184.2
77.5°	138.8	141.6	138.4	134.8	131.6
80°	96.7	92.3	92.7	91.1	87.5
82.5°	58.2	56.2	55.8	54.2	52.6
85°	29.3	28.9	29.3	28.9	27.3
87.5°	9.6	10.4	10.8	10.8	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)