

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: P413206

Luminaire Tested: **24PD-45-PC3-L940**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413206
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-L940
Description: 4500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

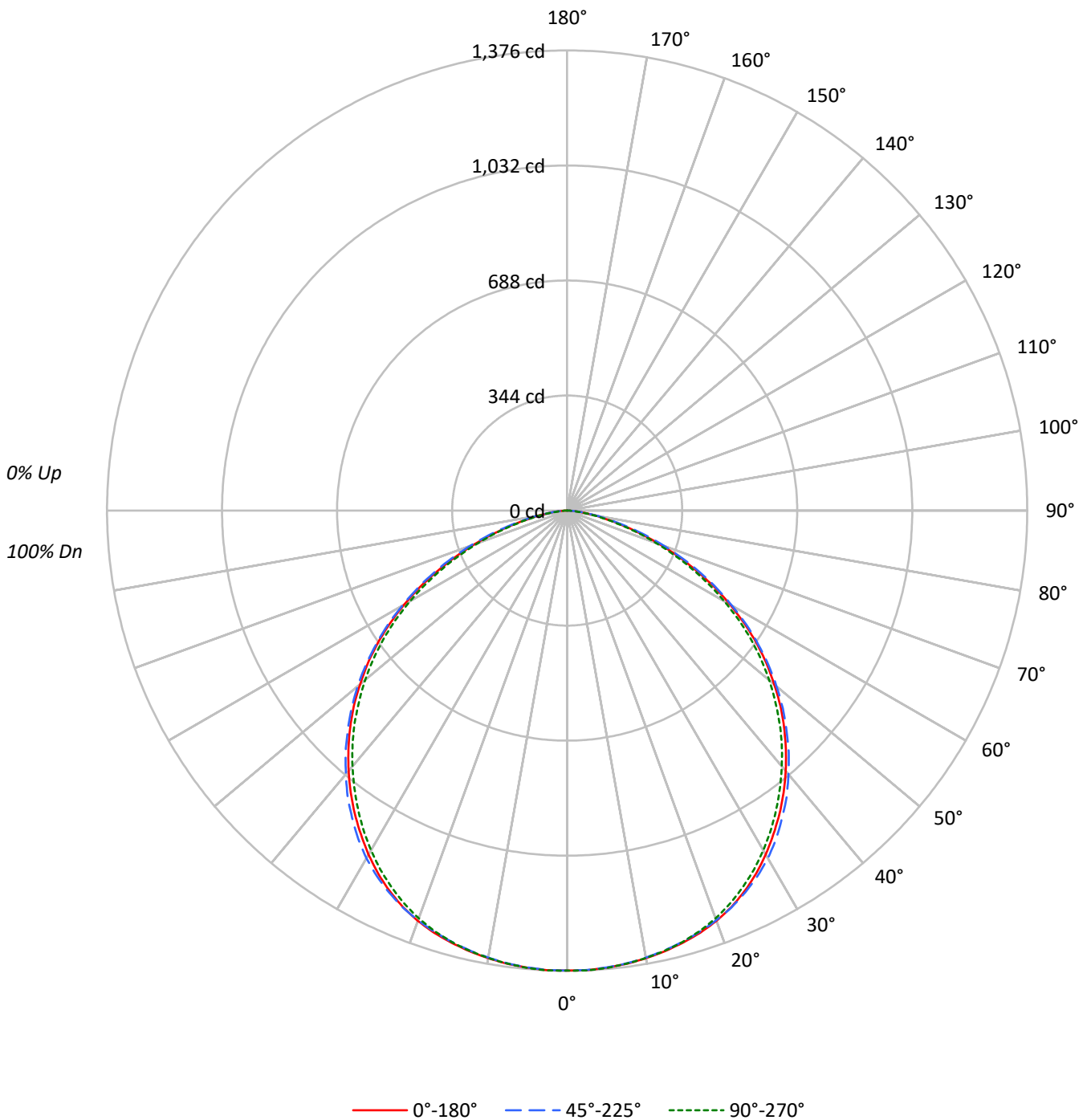
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3760.0 lumens
Efficiency: N/A
Efficacy: 112.6 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 (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	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°	1851	1851	1851
5°	1853	1852	1854
10°	1857	1854	1856
15°	1863	1859	1860
20°	1869	1867	1858
25°	1864	1871	1845
30°	1845	1865	1822
35°	1818	1841	1791
40°	1786	1808	1754
45°	1746	1765	1710
50°	1692	1711	1650
55°	1622	1637	1574
60°	1514	1532	1462
65°	1365	1399	1311
70°	1159	1210	1112
75°	897	963	856
80°	667	697	605
85°	412	442	383



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.5	3.5
10°-20°	377.2	10.0
20°-30°	577.7	15.4
30°-40°	695.0	18.5
40°-50°	708.7	18.8
50°-60°	614.4	16.3
60°-70°	426.0	11.3
70°-80°	194.5	5.2
80°-90°	35.9	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°	1085.4	28.9
0°-40°	1780.5	47.4
0°-60°	3103.6	82.5
0°-90°	3760.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3760.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1376	1376	1376	1376	1376	
5°	1372	1372	1371	1371	1373	131
15°	1338	1337	1335	1334	1335	378
25°	1256	1259	1260	1249	1243	578
35°	1107	1119	1121	1107	1090	692
45°	918	929	928	915	898	707
55°	692	696	698	681	671	616
65°	429	438	439	424	412	424
75°	173	182	185	179	165	189
85°	27	27	29	27	25	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1375.6	1375.6	1375.6	1375.6	1375.6
2.5°	1375.6	1375.6	1374.8	1374.1	1376.4
5°	1372.2	1372.2	1371.4	1370.6	1372.6
7.5°	1366.8	1366.5	1365.7	1364.9	1366.1
10°	1359.2	1358.8	1357.3	1356.9	1358.5
12.5°	1349.7	1349.3	1347.0	1347.0	1348.2
15°	1337.5	1337.1	1334.8	1333.7	1335.2
17.5°	1323.8	1323.4	1320.7	1317.7	1318.4
20°	1305.5	1305.5	1303.6	1299.0	1297.9
22.5°	1283.4	1284.5	1284.5	1275.8	1272.3
25°	1255.6	1259.0	1260.1	1249.1	1242.6
27.5°	1223.9	1229.3	1232.3	1218.2	1209.8
30°	1187.7	1196.5	1200.3	1185.1	1172.9
32.5°	1148.1	1159.2	1163.7	1148.9	1133.3
35°	1107.0	1118.8	1121.1	1106.6	1090.2
37.5°	1063.1	1075.3	1078.4	1065.4	1045.2
40°	1017.0	1029.2	1029.2	1018.6	998.7
42.5°	968.3	981.2	980.8	967.9	950.0
45°	917.6	929.0	927.5	914.9	898.5
47.5°	865.4	872.6	874.5	859.7	844.0
50°	808.2	815.5	817.4	800.6	788.4
52.5°	751.8	756.4	759.1	739.6	730.9
55°	691.6	695.8	697.7	680.6	671.0
57.5°	628.0	633.3	635.6	618.4	607.8
60°	562.8	568.5	569.3	553.3	543.4
62.5°	496.5	504.1	505.7	489.7	477.8
65°	428.7	437.8	439.4	424.5	411.9
67.5°	360.9	373.1	373.4	361.2	346.4
70°	294.6	307.9	307.5	297.2	282.7
72.5°	231.3	243.5	246.2	236.6	222.5
75°	172.6	182.1	185.2	179.1	164.6
77.5°	122.7	131.5	134.1	128.4	117.7
80°	86.1	86.5	89.9	85.4	78.1
82.5°	53.3	52.6	53.7	51.8	47.6
85°	26.7	27.4	28.6	27.1	24.8
87.5°	9.1	9.5	10.3	10.3	9.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)