

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: P413205

Luminaire Tested: **24PD-45-PC3-L935**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413205
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-L935
Description: 4500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

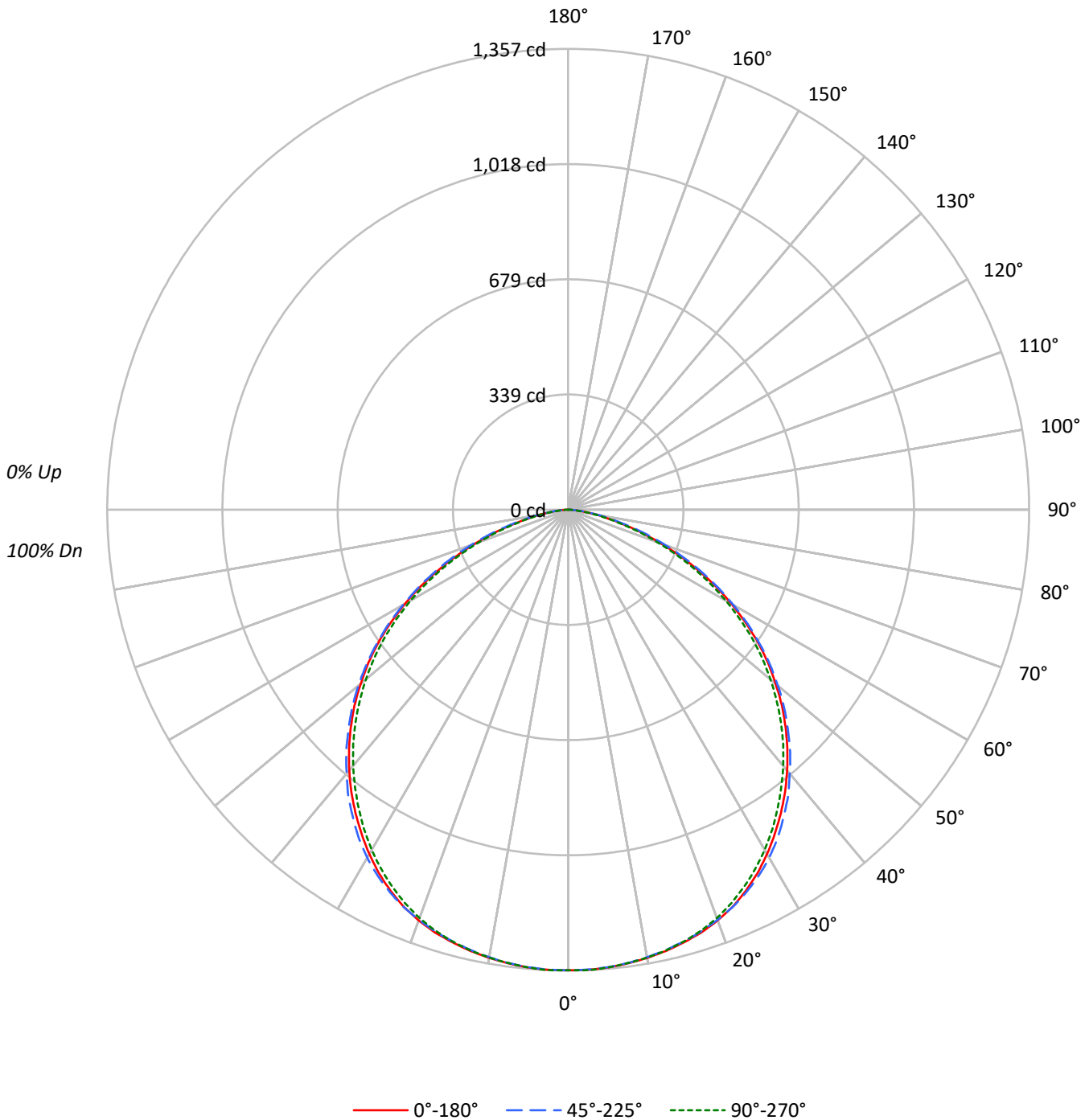
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3707.0 lumens
Efficiency: N/A
Efficacy: 111.0 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°	1825	1825	1825
5°	1827	1826	1828
10°	1831	1828	1830
15°	1837	1833	1834
20°	1843	1840	1832
25°	1838	1844	1819
30°	1819	1839	1796
35°	1793	1815	1765
40°	1761	1782	1730
45°	1721	1740	1686
50°	1668	1687	1627
55°	1600	1614	1552
60°	1493	1510	1442
65°	1345	1379	1293
70°	1142	1193	1097
75°	885	949	844
80°	658	687	597
85°	406	435	377



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.7	3.5
10°-20°	371.9	10.0
20°-30°	569.6	15.4
30°-40°	685.2	18.5
40°-50°	698.7	18.8
50°-60°	605.7	16.3
60°-70°	420.0	11.3
70°-80°	191.8	5.2
80°-90°	35.4	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°	1070.2	28.9
0°-40°	1755.4	47.4
0°-60°	3059.8	82.5
0°-90°	3707.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3707.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1356	1356	1356	1356	1356	
5°	1353	1353	1352	1351	1353	129
15°	1319	1318	1316	1315	1316	373
25°	1238	1241	1242	1232	1225	570
35°	1091	1103	1105	1091	1075	682
45°	905	916	914	902	886	697
55°	682	686	688	671	662	608
65°	423	432	433	418	406	418
75°	170	180	183	177	162	186
85°	26	27	28	27	24	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1356.2	1356.2	1356.2	1356.2	1356.2
2.5°	1356.2	1356.2	1355.5	1354.7	1357.0
5°	1352.8	1352.8	1352.1	1351.3	1353.2
7.5°	1347.6	1347.2	1346.4	1345.7	1346.8
10°	1340.1	1339.7	1338.2	1337.8	1339.3
12.5°	1330.7	1330.3	1328.0	1328.0	1329.2
15°	1318.6	1318.3	1316.0	1314.9	1316.4
17.5°	1305.1	1304.7	1302.1	1299.1	1299.9
20°	1287.1	1287.1	1285.2	1280.7	1279.6
22.5°	1265.3	1266.4	1266.4	1257.8	1254.4
25°	1237.9	1241.3	1242.4	1231.5	1225.1
27.5°	1206.7	1211.9	1215.0	1201.1	1192.8
30°	1171.0	1179.6	1183.4	1168.4	1156.3
32.5°	1131.9	1142.8	1147.3	1132.7	1117.3
35°	1091.4	1103.0	1105.3	1091.0	1074.8
37.5°	1048.2	1060.2	1063.2	1050.4	1030.5
40°	1002.7	1014.7	1014.7	1004.2	984.7
42.5°	954.6	967.4	967.0	954.2	936.6
45°	904.6	915.9	914.4	902.0	885.9
47.5°	853.2	860.3	862.2	847.5	832.1
50°	796.8	804.0	805.8	789.3	777.3
52.5°	741.2	745.7	748.4	729.2	720.6
55°	681.9	686.0	687.9	671.0	661.6
57.5°	619.1	624.4	626.6	609.7	599.2
60°	554.9	560.5	561.3	545.5	535.7
62.5°	489.5	497.0	498.5	482.8	471.1
65°	422.6	431.7	433.2	418.5	406.1
67.5°	355.8	367.8	368.2	356.1	341.5
70°	290.4	303.6	303.2	293.0	278.8
72.5°	228.0	240.1	242.7	233.3	219.4
75°	170.2	179.6	182.6	176.6	162.3
77.5°	121.0	129.6	132.2	126.6	116.1
80°	84.9	85.3	88.7	84.2	77.0
82.5°	52.6	51.8	53.0	51.1	47.0
85°	26.3	27.0	28.2	26.7	24.4
87.5°	9.0	9.4	10.1	10.1	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)