

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: P413184

Luminaire Tested: **24PD-35-PC3-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413184
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-35-PC3-L850
Description: 3500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

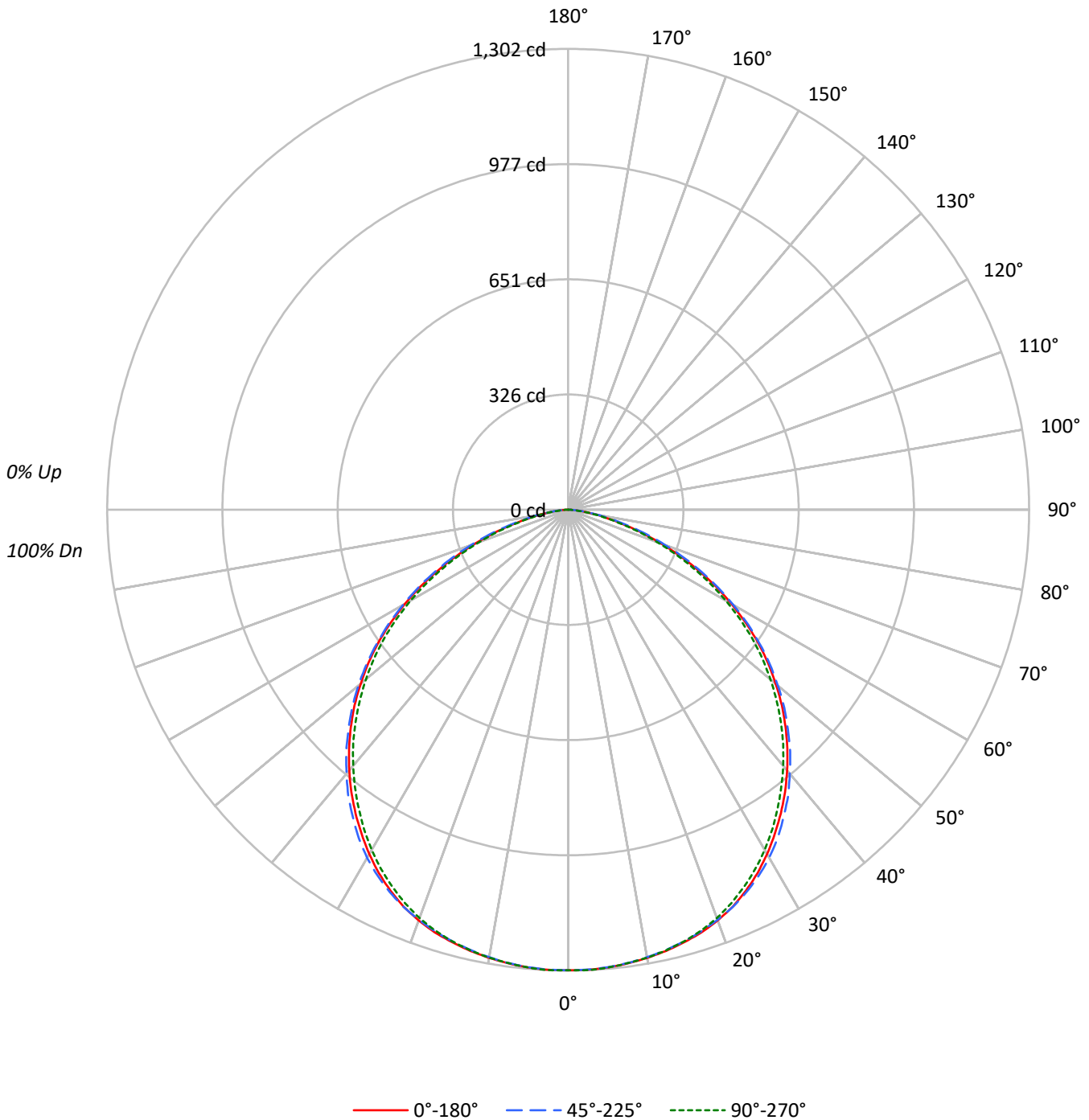
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3557.0 lumens
Efficiency: N/A
Efficacy: 137.9 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): 25.8
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87
2	100	92	86	80	97	90	84	79	87	82	77	83	79	75	80	77	74
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	47	42	37
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1751	1751	1751
5°	1753	1752	1754
10°	1757	1754	1756
15°	1763	1759	1759
20°	1768	1766	1758
25°	1763	1770	1745
30°	1746	1764	1724
35°	1720	1742	1694
40°	1690	1710	1659
45°	1652	1670	1617
50°	1600	1618	1561
55°	1535	1548	1489
60°	1433	1449	1383
65°	1291	1323	1241
70°	1096	1144	1052
75°	849	911	809
80°	631	659	573
85°	389	417	361



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.4	3.5
10°-20°	356.9	10.0
20°-30°	546.5	15.4
30°-40°	657.5	18.5
40°-50°	670.4	18.8
50°-60°	581.2	16.3
60°-70°	403.0	11.3
70°-80°	184.0	5.2
80°-90°	34.0	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°	1026.9	28.9
0°-40°	1684.3	47.4
0°-60°	2936.0	82.5
0°-90°	3557.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3557.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1301	1301	1301	1301	1301	
5°	1298	1298	1297	1297	1298	124
15°	1265	1265	1263	1262	1263	357
25°	1188	1191	1192	1182	1176	547
35°	1047	1058	1060	1047	1031	655
45°	868	879	877	866	850	669
55°	654	658	660	644	635	583
65°	406	414	416	402	390	401
75°	163	172	175	169	156	179
85°	25	26	27	26	23	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1301.3	1301.3	1301.3	1301.3	1301.3
2.5°	1301.3	1301.3	1300.6	1299.9	1302.1
5°	1298.1	1298.1	1297.4	1296.6	1298.4
7.5°	1293.0	1292.7	1292.0	1291.2	1292.3
10°	1285.8	1285.5	1284.0	1283.7	1285.1
12.5°	1276.8	1276.5	1274.3	1274.3	1275.4
15°	1265.3	1264.9	1262.8	1261.7	1263.1
17.5°	1252.3	1251.9	1249.4	1246.5	1247.3
20°	1235.0	1235.0	1233.2	1228.9	1227.8
22.5°	1214.1	1215.2	1215.2	1206.9	1203.6
25°	1187.8	1191.0	1192.1	1181.7	1175.5
27.5°	1157.9	1162.9	1165.8	1152.5	1144.5
30°	1123.6	1131.9	1135.5	1121.1	1109.6
32.5°	1086.1	1096.6	1100.9	1086.8	1072.1
35°	1047.2	1058.4	1060.5	1046.8	1031.3
37.5°	1005.7	1017.3	1020.2	1007.9	988.8
40°	962.1	973.7	973.7	963.6	944.8
42.5°	916.0	928.2	927.9	915.6	898.7
45°	868.0	878.8	877.4	865.5	850.0
47.5°	818.6	825.5	827.3	813.2	798.5
50°	764.6	771.4	773.2	757.4	745.8
52.5°	711.2	715.6	718.1	699.7	691.4
55°	654.3	658.2	660.0	643.8	634.8
57.5°	594.1	599.1	601.3	585.1	575.0
60°	532.4	537.8	538.6	523.4	514.0
62.5°	469.7	476.9	478.4	463.2	452.0
65°	405.5	414.2	415.6	401.6	389.7
67.5°	341.4	352.9	353.3	341.7	327.7
70°	278.7	291.3	290.9	281.2	267.5
72.5°	218.8	230.3	232.9	223.9	210.5
75°	163.3	172.3	175.2	169.4	155.7
77.5°	116.1	124.4	126.9	121.5	111.4
80°	81.5	81.8	85.1	80.7	73.9
82.5°	50.5	49.7	50.8	49.0	45.1
85°	25.2	26.0	27.0	25.6	23.4
87.5°	8.7	9.0	9.7	9.7	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)