

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: P412848

Luminaire Tested: **24PD-40-PP3-L830**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412848
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-40-PP3-L830
Description: 4000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

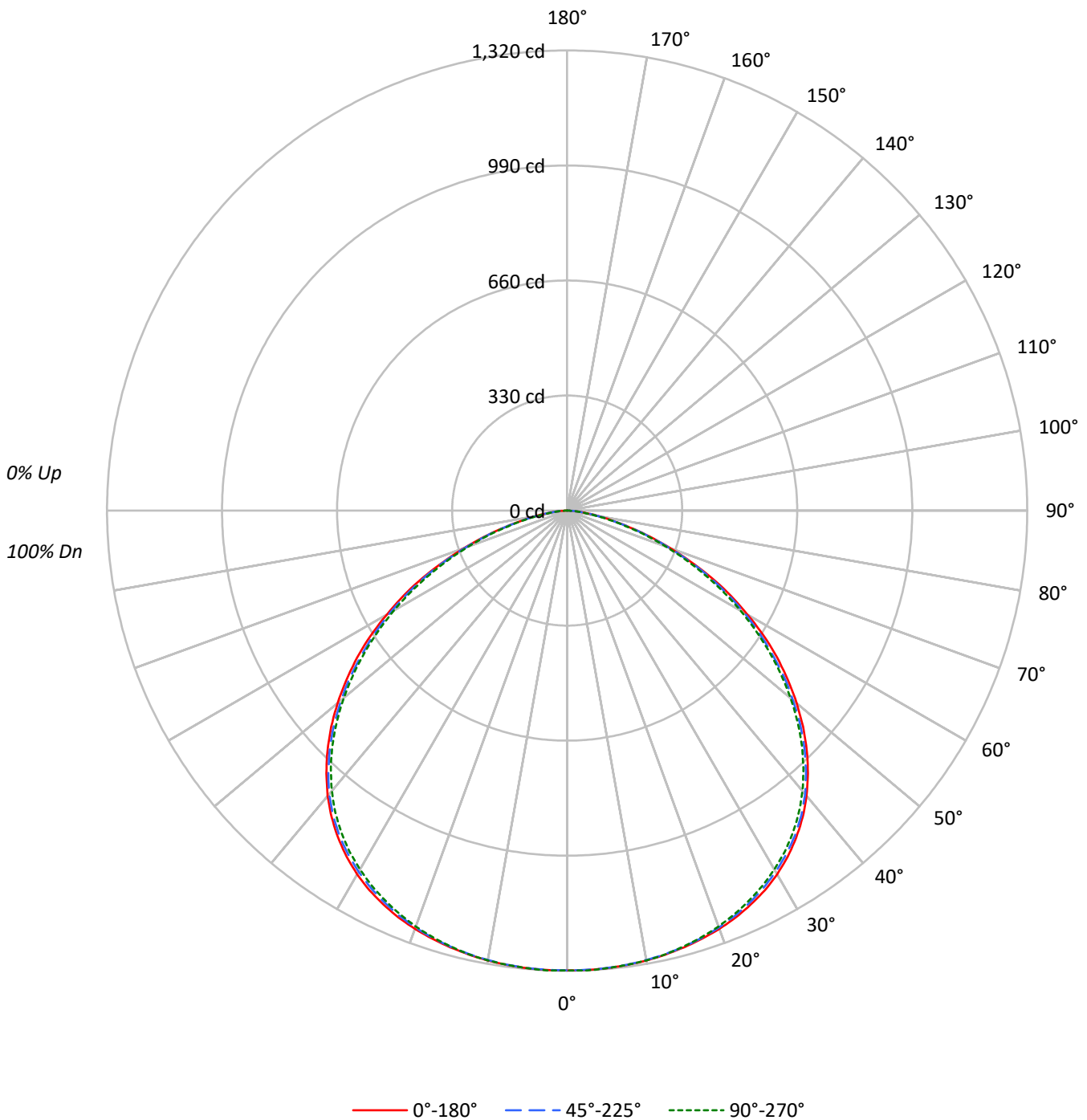
Lumens per Lamp: N/A
Luminaire Lumens: 3838.0 lumens
Efficiency: N/A
Efficacy: 129.2 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.33 / 1.43
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 29.7
Input Voltage (V): NR
Input Current (A_{in}): 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	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					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°	1775	1775	1775
5°	1779	1779	1780
10°	1791	1788	1790
15°	1806	1804	1803
20°	1828	1822	1818
25°	1851	1841	1833
30°	1872	1859	1847
35°	1882	1870	1853
40°	1877	1865	1844
45°	1850	1832	1811
50°	1799	1770	1752
55°	1725	1683	1662
60°	1607	1579	1547
65°	1457	1428	1386
70°	1243	1221	1181
75°	971	961	915
80°	716	687	648
85°	432	432	403



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.5	3.3
10°-20°	366.2	9.5
20°-30°	572.4	14.9
30°-40°	711.3	18.5
40°-50°	741.2	19.3
50°-60°	643.1	16.8
60°-70°	442.2	11.5
70°-80°	199.6	5.2
80°-90°	36.6	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°	1064.0	27.7
0°-40°	1775.4	46.3
0°-60°	3159.6	82.3
0°-90°	3838.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3838.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1319	1319	1319	1319	1319	
5°	1318	1318	1317	1316	1318	126
15°	1297	1297	1295	1294	1294	367
25°	1247	1246	1240	1235	1235	575
35°	1146	1146	1139	1132	1128	716
45°	972	973	963	955	952	748
55°	735	731	718	709	708	655
65°	458	456	448	438	435	452
75°	187	188	185	180	176	203
85°	28	28	28	28	26	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1319.0	1319.0	1319.0	1319.0	1319.0
2.5°	1319.4	1319.4	1318.6	1317.5	1320.2
5°	1317.5	1317.9	1317.1	1315.9	1317.9
7.5°	1314.8	1315.2	1314.0	1312.9	1314.4
10°	1310.6	1310.2	1309.0	1308.3	1310.2
12.5°	1304.4	1304.1	1302.9	1302.1	1303.7
15°	1296.8	1296.8	1294.8	1293.7	1294.1
17.5°	1287.6	1287.6	1284.9	1282.2	1283.0
20°	1276.8	1276.4	1272.6	1269.9	1269.5
22.5°	1263.4	1263.4	1258.0	1254.6	1253.4
25°	1246.9	1246.5	1240.4	1235.4	1234.6
27.5°	1228.1	1227.3	1220.1	1215.1	1213.2
30°	1204.7	1203.9	1196.3	1190.9	1188.6
32.5°	1177.1	1178.2	1169.4	1163.3	1161.0
35°	1145.6	1145.6	1138.7	1132.2	1128.4
37.5°	1109.6	1109.6	1103.1	1096.6	1092.0
40°	1068.6	1068.9	1062.0	1054.0	1050.1
42.5°	1022.5	1023.3	1014.1	1007.6	1003.4
45°	972.3	972.7	962.7	955.4	952.0
47.5°	917.8	917.1	905.9	899.8	896.3
50°	859.5	858.0	845.7	840.0	836.9
52.5°	798.5	795.5	784.7	776.3	773.6
55°	735.3	731.0	717.6	709.2	708.4
57.5°	669.3	664.3	653.2	645.1	642.1
60°	597.2	596.0	586.8	577.2	574.9
62.5°	529.7	526.2	518.2	506.7	505.5
65°	457.6	455.7	448.4	437.6	435.3
67.5°	383.2	385.1	378.9	369.4	366.3
70°	316.0	317.2	310.3	301.5	300.3
72.5°	248.5	250.5	244.7	238.9	237.8
75°	186.8	187.6	184.9	179.9	176.0
77.5°	132.7	135.4	132.3	128.9	125.8
80°	92.4	88.2	88.6	87.1	83.6
82.5°	55.6	53.7	53.3	51.8	50.2
85°	28.0	27.6	28.0	27.6	26.1
87.5°	9.2	10.0	10.4	10.4	9.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)