

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: P413073

Luminaire Tested: **22PD-40-PC3-L830**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413073
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-15)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22PD-40-PC3-L830
Description: 4000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

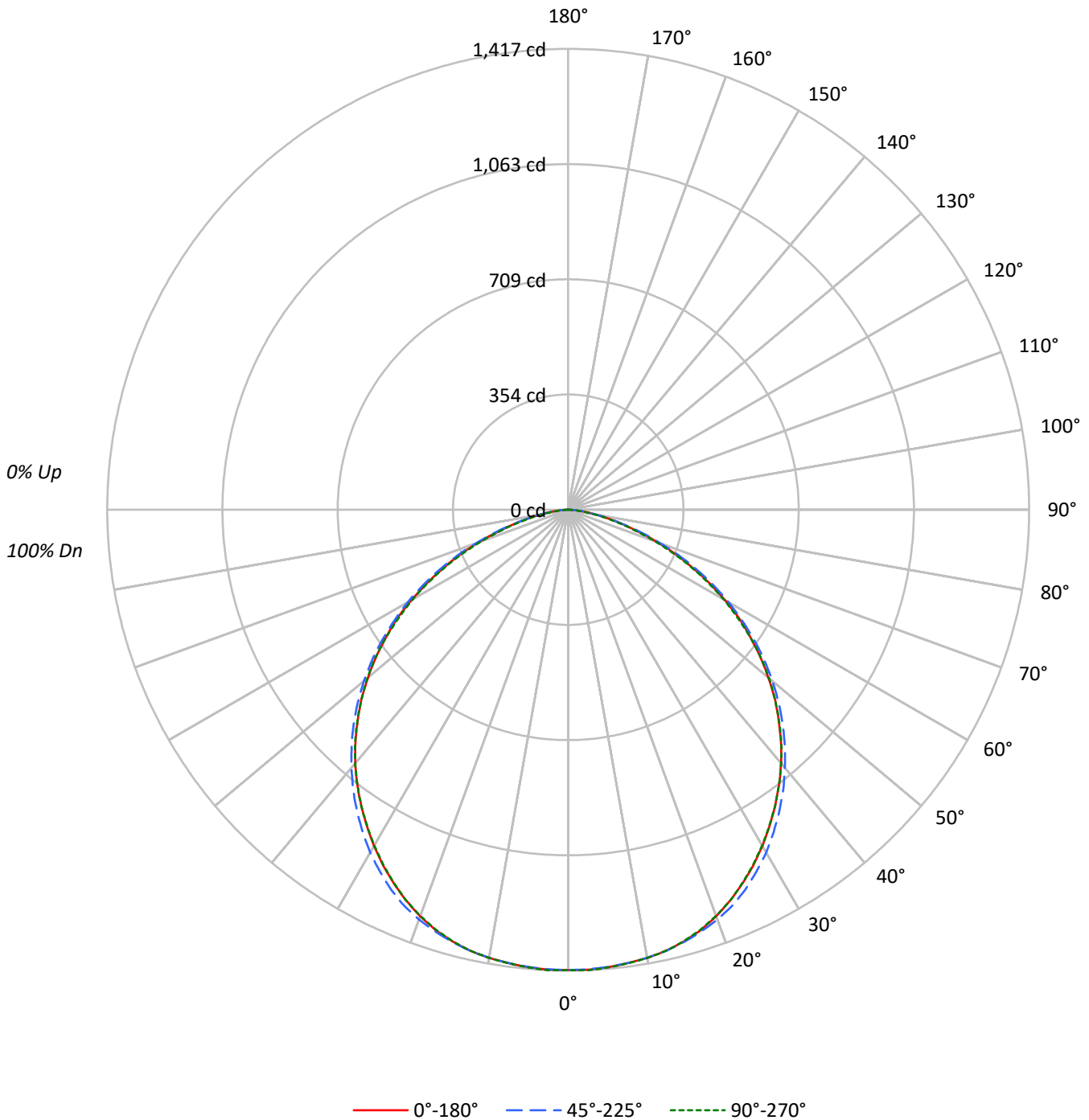
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3803.0 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.8
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	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	110	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	76	80	77	74	72
3	91	81	73	67	89	80	72	67	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	49	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3809	3809	3809
5°	3814	3812	3817
10°	3824	3823	3824
15°	3828	3833	3827
20°	3809	3840	3806
25°	3765	3826	3762
30°	3709	3782	3703
35°	3644	3717	3644
40°	3576	3640	3576
45°	3482	3550	3487
50°	3363	3429	3376
55°	3207	3270	3207
60°	2990	3066	2971
65°	2683	2778	2649
70°	2296	2377	2228
75°	1822	1873	1727
80°	1305	1354	1241
85°	861	889	806



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.3	3.5
10°-20°	388.0	10.2
20°-30°	588.6	15.5
30°-40°	702.9	18.5
40°-50°	714.9	18.8
50°-60°	618.4	16.3
60°-70°	425.5	11.2
70°-80°	193.1	5.1
80°-90°	37.4	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°	1110.9	29.2
0°-40°	1813.8	47.7
0°-60°	3147.0	82.8
0°-90°	3803.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3803.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1416	1416	1416	1416	1416	
5°	1412	1411	1411	1411	1413	134
15°	1374	1375	1376	1374	1374	388
25°	1268	1279	1289	1277	1267	584
35°	1109	1129	1132	1128	1109	694
45°	915	932	933	932	916	706
55°	684	695	697	696	684	611
65°	421	433	436	433	416	418
75°	175	182	180	178	166	188
85°	28	30	29	28	26	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1415.6	1415.6	1415.6	1415.6	1415.6
2.5°	1415.6	1413.8	1414.3	1414.7	1417.4
5°	1412.0	1410.7	1411.1	1411.1	1412.9
7.5°	1406.2	1405.7	1405.7	1405.3	1406.6
10°	1399.4	1398.5	1399.0	1398.5	1399.4
12.5°	1389.1	1389.1	1389.5	1388.2	1389.1
15°	1374.2	1375.1	1376.0	1373.7	1373.7
17.5°	1355.3	1357.5	1359.8	1355.7	1353.5
20°	1330.1	1335.5	1340.9	1334.6	1329.2
22.5°	1300.8	1309.8	1317.9	1308.0	1300.8
25°	1267.9	1279.2	1288.6	1276.9	1267.0
27.5°	1232.4	1245.0	1254.0	1244.1	1230.6
30°	1193.6	1209.0	1217.1	1207.6	1191.8
32.5°	1152.2	1170.2	1175.2	1169.3	1151.3
35°	1109.4	1129.3	1131.5	1127.5	1109.4
37.5°	1064.9	1083.8	1085.6	1083.3	1064.9
40°	1018.0	1035.6	1036.1	1036.1	1018.0
42.5°	968.1	985.2	985.2	984.7	969.4
45°	914.9	931.6	932.9	932.0	916.3
47.5°	862.3	874.9	877.1	875.3	861.4
50°	803.3	816.3	819.0	817.2	806.4
52.5°	744.7	756.9	759.6	758.2	746.1
55°	683.5	695.2	697.0	695.7	683.5
57.5°	624.5	632.2	634.0	631.3	616.0
60°	555.6	566.4	569.6	566.4	552.0
62.5°	489.0	500.7	503.4	498.9	483.6
65°	421.4	433.2	436.3	432.7	416.0
67.5°	357.5	366.1	368.8	364.7	349.4
70°	291.8	302.6	302.1	296.7	283.2
72.5°	226.9	241.8	239.1	235.9	221.1
75°	175.2	181.9	180.1	178.3	166.1
77.5°	125.2	133.3	128.8	129.2	118.9
80°	84.2	91.9	87.4	85.5	80.1
82.5°	53.6	56.7	55.8	54.9	50.0
85°	27.9	29.7	28.8	27.9	26.1
87.5°	10.8	11.7	10.8	10.8	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)