

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: P413074

Luminaire Tested: **22PD-40-PC3-L835**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413074
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-L835
Description: 4000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

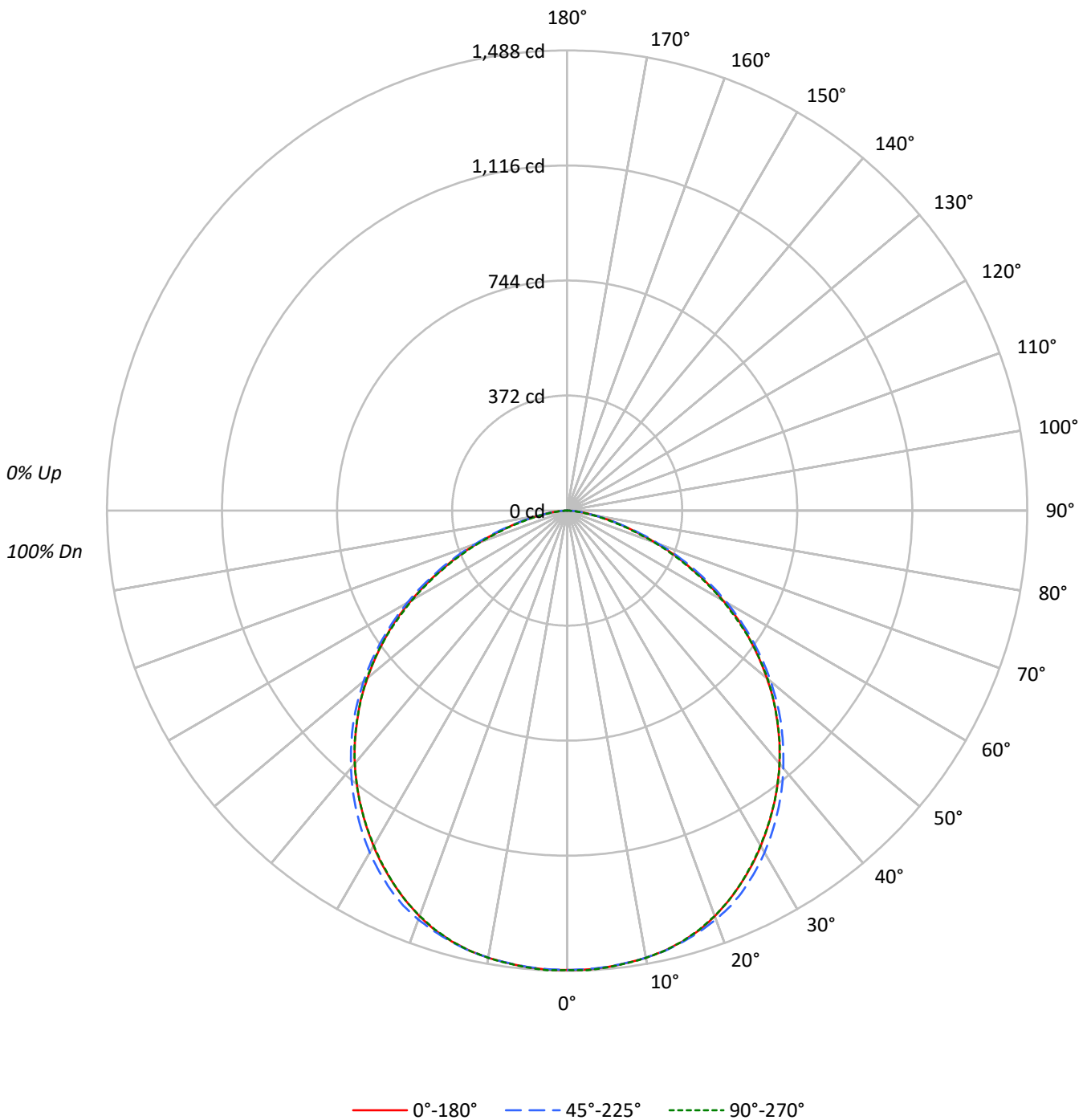
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3991.0 lumens
Efficiency: N/A
Efficacy: 118.1 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°	3998	3998	3998
5°	4003	4000	4005
10°	4013	4012	4013
15°	4018	4023	4016
20°	3997	4030	3995
25°	3951	4016	3948
30°	3892	3969	3887
35°	3825	3901	3825
40°	3753	3819	3753
45°	3654	3726	3659
50°	3529	3598	3543
55°	3365	3432	3365
60°	3138	3217	3118
65°	2816	2916	2780
70°	2409	2495	2338
75°	1911	1965	1813
80°	1370	1421	1303
85°	905	932	846



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.0	3.5
10°-20°	407.1	10.2
20°-30°	617.7	15.5
30°-40°	737.7	18.5
40°-50°	750.2	18.8
50°-60°	648.9	16.3
60°-70°	446.5	11.2
70°-80°	202.7	5.1
80°-90°	39.2	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°	1165.8	29.2
0°-40°	1903.5	47.7
0°-60°	3302.6	82.8
0°-90°	3991.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3991.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1486	1486	1486	1486	1486	
5°	1482	1480	1481	1481	1483	141
15°	1442	1443	1444	1442	1442	407
25°	1331	1342	1352	1340	1330	613
35°	1164	1185	1187	1183	1164	728
45°	960	978	979	978	962	740
55°	717	730	732	730	717	641
65°	442	455	458	454	437	439
75°	184	191	189	187	174	198
85°	29	31	30	29	27	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1485.6	1485.6	1485.6	1485.6	1485.6
2.5°	1485.6	1483.7	1484.2	1484.7	1487.5
5°	1481.8	1480.4	1480.9	1480.9	1482.8
7.5°	1475.7	1475.2	1475.2	1474.7	1476.2
10°	1468.6	1467.6	1468.1	1467.6	1468.6
12.5°	1457.7	1457.7	1458.2	1456.8	1457.7
15°	1442.1	1443.1	1444.0	1441.7	1441.7
17.5°	1422.3	1424.6	1427.0	1422.8	1420.4
20°	1395.8	1401.5	1407.2	1400.6	1394.9
22.5°	1365.1	1374.6	1383.1	1372.7	1365.1
25°	1330.6	1342.4	1352.4	1340.1	1329.7
27.5°	1293.3	1306.5	1316.0	1305.6	1291.4
30°	1252.7	1268.7	1277.2	1267.3	1250.8
32.5°	1209.2	1228.1	1233.3	1227.1	1208.2
35°	1164.3	1185.1	1187.4	1183.2	1164.3
37.5°	1117.5	1137.4	1139.2	1136.9	1117.5
40°	1068.4	1086.8	1087.3	1087.3	1068.4
42.5°	1015.9	1033.9	1033.9	1033.4	1017.3
45°	960.2	977.6	979.1	978.1	961.6
47.5°	904.9	918.1	920.5	918.6	903.9
50°	843.0	856.7	859.5	857.6	846.3
52.5°	781.5	794.3	797.1	795.7	783.0
55°	717.3	729.6	731.5	730.0	717.3
57.5°	655.4	663.4	665.3	662.5	646.4
60°	583.1	594.4	597.7	594.4	579.3
62.5°	513.2	525.4	528.3	523.6	507.5
65°	442.3	454.6	457.9	454.1	436.6
67.5°	375.2	384.2	387.0	382.7	366.7
70°	306.2	317.5	317.1	311.4	297.2
72.5°	238.2	253.7	250.9	247.6	232.0
75°	183.8	190.9	189.0	187.1	174.4
77.5°	131.4	139.9	135.1	135.6	124.7
80°	88.4	96.4	91.7	89.8	84.1
82.5°	56.2	59.5	58.6	57.6	52.4
85°	29.3	31.2	30.2	29.3	27.4
87.5°	11.3	12.3	11.3	11.3	10.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)