

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: P412731

Luminaire Tested: **22PD-40-PP3-L830**

Issue Date: 9/15/2020



**Test Information**

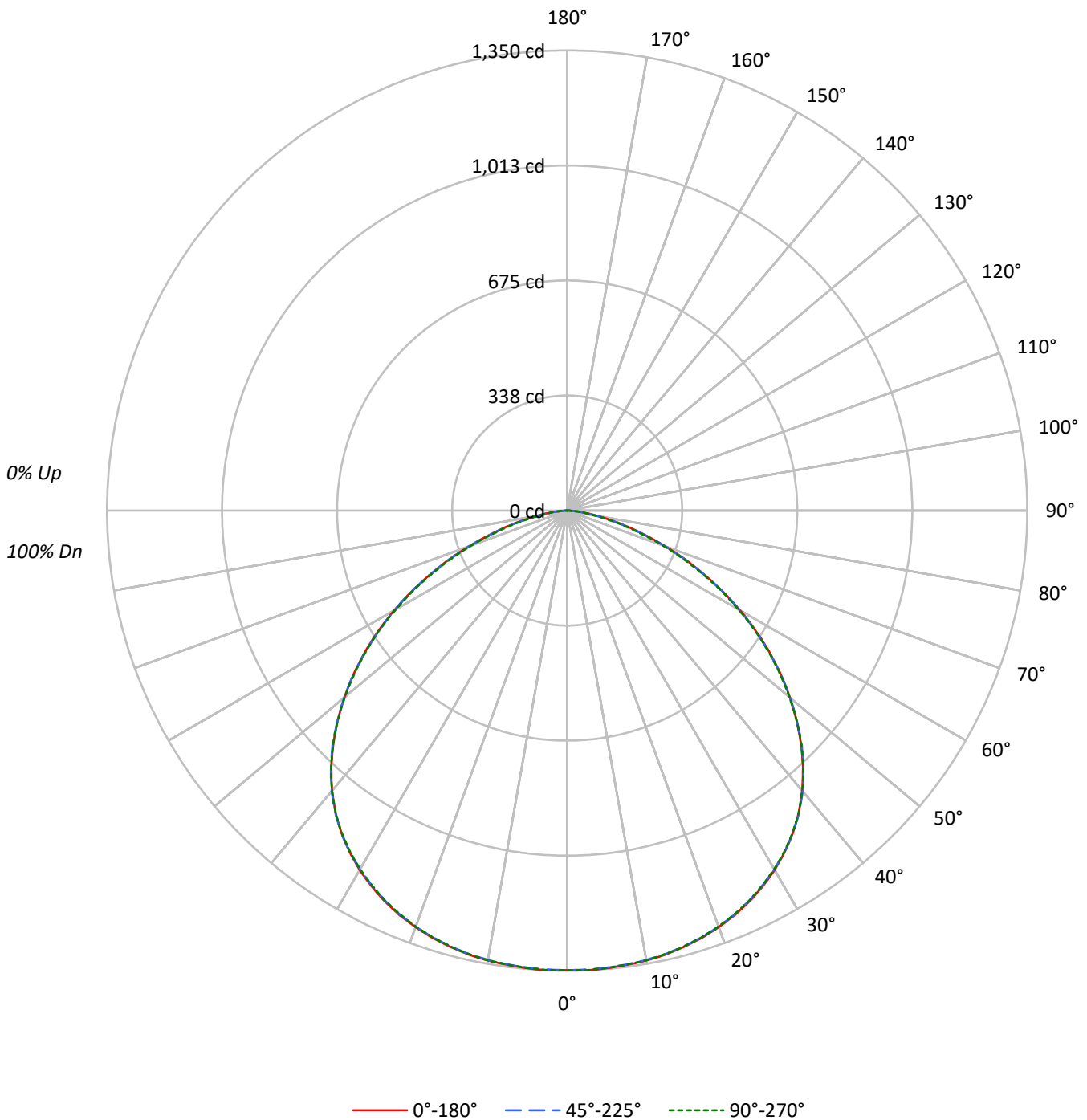
Test Method: LM-79-08  
Report Number: P412731  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-40-PP3-L830  
Description: 4000 LUMEN 2X2 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: 3869.0 lumens  
Efficiency: N/A  
Efficacy: 114.5 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.43  
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	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	87	81	77		83	79	75		80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71	67	63	61
4	84	72	63	57	81	70	62	56	68	61	55		66	60	55		64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48		59	53	47		57	51	47	45
6	71	58	49	43	69	57	48	42	55	48	42		53	47	42		52	46	41	39
7	66	52	44	38	64	52	43	37	50	43	37		49	42	37		47	41	37	35
8	61	48	39	33	60	47	39	33	46	38	33		44	38	33		43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30		41	34	30		40	34	29	28
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°	3629	3629	3629
5°	3640	3635	3638
10°	3663	3658	3660
15°	3692	3688	3688
20°	3724	3720	3718
25°	3757	3750	3750
30°	3783	3776	3775
35°	3794	3794	3790
40°	3769	3777	3769
45°	3694	3705	3699
50°	3570	3576	3566
55°	3399	3391	3384
60°	3155	3148	3124
65°	2818	2816	2784
70°	2409	2395	2341
75°	1919	1863	1807
80°	1368	1339	1269
85°	889	889	861



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.2	3.3
10°-20°	374.1	9.7
20°-30°	582.5	15.1
30°-40°	720.9	18.6
40°-50°	747.6	19.3
50°-60°	644.3	16.7
60°-70°	438.1	11.3
70°-80°	196.0	5.1
80°-90°	37.3	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°	1084.8	28.0
0°-40°	1805.7	46.7
0°-60°	3197.6	82.6
0°-90°	3869.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3869.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1348	1348	1348	1348	1348	
5°	1348	1345	1346	1345	1347	128
15°	1325	1323	1324	1323	1324	375
25°	1265	1263	1263	1262	1263	583
35°	1155	1154	1155	1153	1154	721
45°	971	970	974	971	972	747
55°	724	722	723	721	721	646
65°	443	446	442	441	437	439
75°	185	185	179	178	174	199
85°	29	30	29	28	28	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1348.5	1348.5	1348.5	1348.5	1348.5
2.5°	1350.3	1347.6	1347.6	1348.1	1349.4
5°	1347.6	1344.9	1345.8	1345.4	1346.7
7.5°	1344.0	1341.8	1343.1	1342.2	1343.1
10°	1340.4	1338.2	1338.6	1338.2	1339.5
12.5°	1334.1	1331.4	1332.3	1332.3	1332.8
15°	1325.1	1322.9	1323.8	1322.9	1323.8
17.5°	1314.3	1311.6	1312.0	1311.6	1312.5
20°	1300.3	1298.5	1299.0	1298.1	1298.5
22.5°	1284.6	1282.3	1282.8	1281.9	1281.9
25°	1265.2	1263.4	1263.0	1262.5	1263.0
27.5°	1242.7	1240.5	1240.5	1240.0	1240.0
30°	1217.5	1215.2	1215.2	1214.8	1214.8
32.5°	1187.8	1186.9	1187.3	1186.4	1186.0
35°	1154.9	1153.6	1154.9	1153.1	1153.6
37.5°	1116.6	1114.8	1117.5	1115.7	1116.2
40°	1073.0	1072.1	1075.2	1073.9	1073.0
42.5°	1024.3	1024.3	1025.7	1026.1	1025.2
45°	970.8	969.9	973.5	971.2	972.1
47.5°	913.1	911.8	914.5	914.0	913.6
50°	852.8	851.9	854.1	851.9	851.9
52.5°	790.2	789.8	790.2	787.9	787.5
55°	724.5	721.8	722.7	721.3	721.3
57.5°	656.0	652.9	653.3	652.9	653.3
60°	586.2	585.3	584.9	582.6	580.4
62.5°	514.6	515.5	515.1	511.9	509.7
65°	442.6	446.2	442.2	440.8	437.2
67.5°	374.6	376.0	373.3	370.1	366.1
70°	306.2	308.9	304.4	301.2	297.6
72.5°	240.9	242.7	238.6	236.8	232.3
75°	184.6	185.1	179.2	178.3	173.8
77.5°	131.5	133.3	128.8	128.8	124.3
80°	88.3	91.4	86.4	85.1	81.9
82.5°	55.4	55.8	54.5	53.1	51.8
85°	28.8	29.7	28.8	27.9	27.9
87.5°	10.8	11.3	10.8	10.4	10.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)