

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: P412722

Luminaire Tested: **22PD-35-PP3-L830**

Issue Date: 9/15/2020



**Test Information**

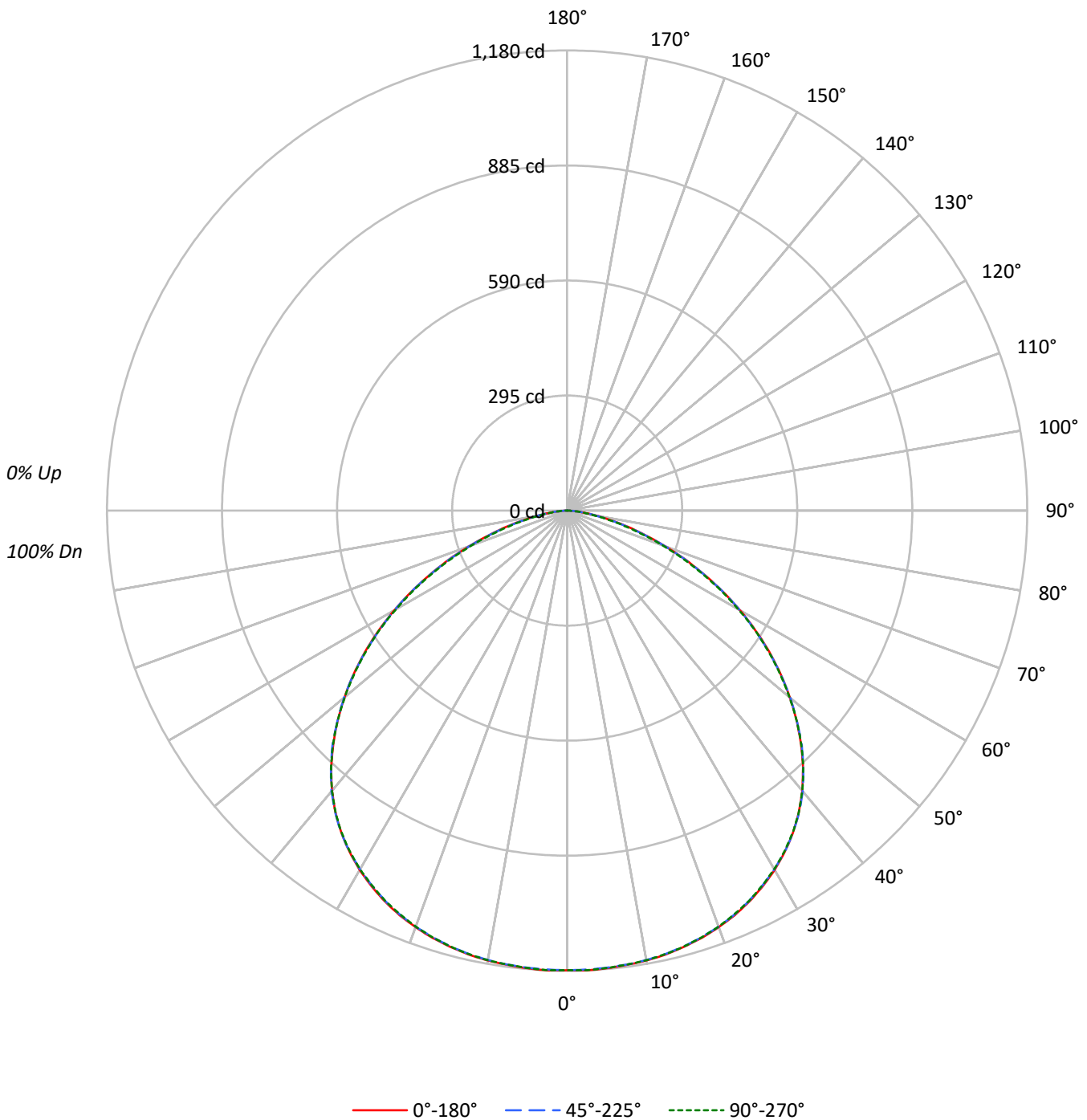
Test Method: LM-79-08  
Report Number: P412722  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-35-PP3-L830  
Description: 3500 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: 3382.0 lumens  
Efficiency: N/A  
Efficacy: 115.8 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): 29.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

TEST NUMBER: P412722  
CATALOG NUMBER: 22PD-35-PP3-L830

### Luminous Intensity Polar Plot





TEST NUMBER: P412722

CATALOG NUMBER: 22PD-35-PP3-L830

**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°	3172	3172	3172
5°	3182	3178	3180
10°	3202	3197	3199
15°	3227	3224	3224
20°	3255	3252	3251
25°	3284	3278	3278
30°	3307	3301	3300
35°	3316	3316	3313
40°	3295	3302	3295
45°	3229	3238	3234
50°	3121	3126	3118
55°	2971	2964	2958
60°	2758	2752	2730
65°	2464	2461	2434
70°	2105	2094	2047
75°	1678	1628	1579
80°	1195	1172	1110
85°	778	778	753



TEST NUMBER: P412722

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.1	3.3
10°-20°	327.0	9.7
20°-30°	509.2	15.1
30°-40°	630.2	18.6
40°-50°	653.5	19.3
50°-60°	563.2	16.7
60°-70°	382.9	11.3
70°-80°	171.4	5.1
80°-90°	32.6	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°	948.2	28.0
0°-40°	1578.4	46.7
0°-60°	2795.1	82.6
0°-90°	3382.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3382.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1179	1179	1179	1179	1179	
5°	1178	1176	1176	1176	1177	112
15°	1158	1156	1157	1156	1157	327
25°	1106	1104	1104	1104	1104	510
35°	1010	1008	1010	1008	1008	631
45°	849	848	851	849	850	653
55°	633	631	632	630	630	565
65°	387	390	386	385	382	384
75°	161	162	157	156	152	174
85°	25	26	25	24	24	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1178.8	1178.8	1178.8	1178.8	1178.8
2.5°	1180.4	1178.0	1178.0	1178.4	1179.6
5°	1178.0	1175.6	1176.4	1176.0	1177.2
7.5°	1174.8	1172.9	1174.1	1173.3	1174.1
10°	1171.7	1169.7	1170.1	1169.7	1170.9
12.5°	1166.2	1163.8	1164.6	1164.6	1165.0
15°	1158.3	1156.3	1157.1	1156.3	1157.1
17.5°	1148.9	1146.5	1146.9	1146.5	1147.3
20°	1136.7	1135.1	1135.5	1134.7	1135.1
22.5°	1122.9	1120.9	1121.3	1120.5	1120.5
25°	1106.0	1104.4	1104.0	1103.6	1104.0
27.5°	1086.3	1084.3	1084.3	1083.9	1083.9
30°	1064.2	1062.3	1062.3	1061.9	1061.9
32.5°	1038.3	1037.5	1037.9	1037.1	1036.7
35°	1009.5	1008.4	1009.5	1008.0	1008.4
37.5°	976.1	974.5	976.9	975.3	975.7
40°	937.9	937.1	939.9	938.7	937.9
42.5°	895.4	895.4	896.6	897.0	896.2
45°	848.6	847.8	850.9	849.0	849.7
47.5°	798.2	797.0	799.4	799.0	798.6
50°	745.4	744.7	746.6	744.7	744.7
52.5°	690.7	690.3	690.7	688.8	688.4
55°	633.3	630.9	631.7	630.5	630.5
57.5°	573.4	570.7	571.1	570.7	571.1
60°	512.4	511.7	511.3	509.3	507.3
62.5°	449.9	450.7	450.3	447.5	445.5
65°	386.9	390.0	386.5	385.3	382.2
67.5°	327.5	328.6	326.3	323.5	320.0
70°	267.6	270.0	266.1	263.3	260.2
72.5°	210.6	212.1	208.6	207.0	203.1
75°	161.4	161.8	156.6	155.9	151.9
77.5°	114.9	116.5	112.6	112.6	108.6
80°	77.1	79.9	75.6	74.4	71.6
82.5°	48.4	48.8	47.6	46.4	45.3
85°	25.2	26.0	25.2	24.4	24.4
87.5°	9.4	9.8	9.4	9.1	9.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)