

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: P412381

Luminaire Tested: **22PD-35-PB1-L835**

Issue Date: 9/15/2020



**Test Information**

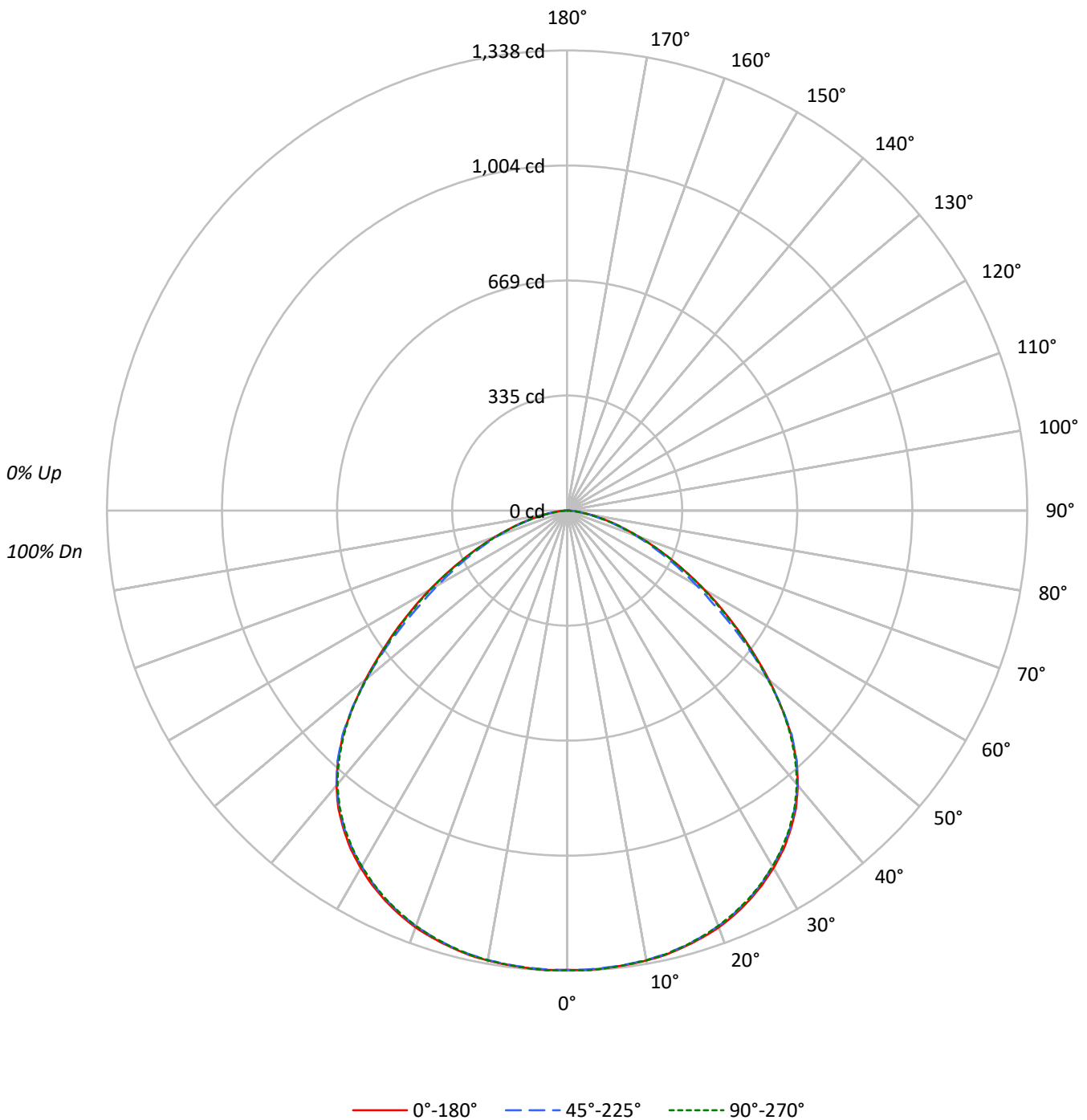
Test Method: LM-79-08  
Report Number: P412381  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-35-PB1-L835  
Description: 3500 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3507.0 lumens  
Efficiency: N/A  
Efficacy: 120.1 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.32 / 1.4  
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 (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

TEST NUMBER: P412381  
CATALOG NUMBER: 22PD-35-PB1-L835

### Luminous Intensity Polar Plot





TEST NUMBER: P412381

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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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88					86				
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	76					73				
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65					63				
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	66	61	56					54				
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49					47				
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44					42				
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39					37				
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35					33				
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32					30				
10	55	42	34	29	54	41	34	29	41	34	29	40	33	29	39	33	29					27				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3595	3595	3595
5°	3606	3603	3607
10°	3630	3625	3628
15°	3659	3653	3653
20°	3693	3682	3680
25°	3716	3705	3701
30°	3728	3713	3710
35°	3721	3710	3703
40°	3665	3661	3649
45°	3504	3515	3488
50°	3208	3190	3187
55°	2851	2750	2831
60°	2485	2334	2470
65°	2107	1994	2096
70°	1742	1670	1725
75°	1409	1318	1353
80°	1018	986	979
85°	664	664	639



TEST NUMBER: P412381

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.1	3.6
10°-20°	370.7	10.6
20°-30°	575.2	16.4
30°-40°	705.4	20.1
40°-50°	705.1	20.1
50°-60°	534.1	15.2
60°-70°	320.3	9.1
70°-80°	141.0	4.0
80°-90°	28.0	0.8
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°	1073.0	30.6
0°-40°	1778.4	50.7
0°-60°	3017.6	86.0
0°-90°	3507.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3507.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1336	1336	1336	1336	1336	
5°	1335	1333	1334	1333	1335	127
15°	1314	1312	1311	1311	1311	371
25°	1252	1249	1248	1246	1247	577
35°	1133	1132	1129	1128	1127	707
45°	921	922	924	921	917	705
55°	608	594	586	594	604	545
65°	331	319	313	318	329	331
75°	136	133	127	129	130	145
85°	22	22	22	21	21	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1335.8	1335.8	1335.8	1335.8	1335.8
2.5°	1337.1	1335.0	1335.4	1335.4	1337.9
5°	1335.0	1333.3	1333.7	1333.3	1335.4
7.5°	1332.1	1330.4	1330.9	1330.4	1331.7
10°	1328.4	1326.7	1326.7	1325.9	1327.6
12.5°	1323.4	1321.4	1320.5	1320.1	1321.4
15°	1313.5	1312.3	1311.4	1310.6	1311.4
17.5°	1302.8	1300.7	1299.9	1298.2	1299.9
20°	1289.6	1286.7	1285.8	1284.6	1285.0
22.5°	1272.2	1269.7	1268.5	1266.4	1267.2
25°	1251.5	1249.1	1247.8	1245.8	1246.6
27.5°	1227.6	1225.9	1223.0	1221.4	1221.8
30°	1199.9	1198.3	1195.0	1194.1	1194.1
32.5°	1169.4	1167.3	1164.4	1163.6	1163.2
35°	1132.6	1132.2	1129.3	1128.5	1127.2
37.5°	1092.5	1091.7	1088.4	1087.6	1086.3
40°	1043.4	1042.5	1042.1	1040.5	1038.8
42.5°	986.4	987.6	988.4	985.1	981.8
45°	920.7	921.9	923.6	921.1	916.6
47.5°	843.9	848.8	846.3	848.0	843.5
50°	766.2	766.2	762.1	763.7	761.3
52.5°	684.8	678.2	673.3	676.6	679.9
55°	607.6	594.4	586.1	594.0	603.5
57.5°	533.7	518.0	502.7	515.1	526.6
60°	461.8	443.6	433.7	442.8	458.9
62.5°	393.6	380.4	370.5	377.5	391.2
65°	330.9	319.3	313.1	318.5	329.2
67.5°	273.4	265.6	259.4	263.9	272.2
70°	221.4	219.3	212.3	214.4	219.3
72.5°	173.9	173.5	167.3	168.9	171.8
75°	135.5	132.6	126.8	128.9	130.1
77.5°	95.8	97.1	91.7	92.9	92.9
80°	65.7	67.7	63.6	62.8	63.2
82.5°	41.7	41.7	41.3	40.9	39.7
85°	21.5	22.3	21.5	20.7	20.7
87.5°	8.3	8.3	8.3	7.8	7.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)