

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: P412387

Luminaire Tested: **22PD-35-PB1-L940**

Issue Date: 9/15/2020



**Test Information**

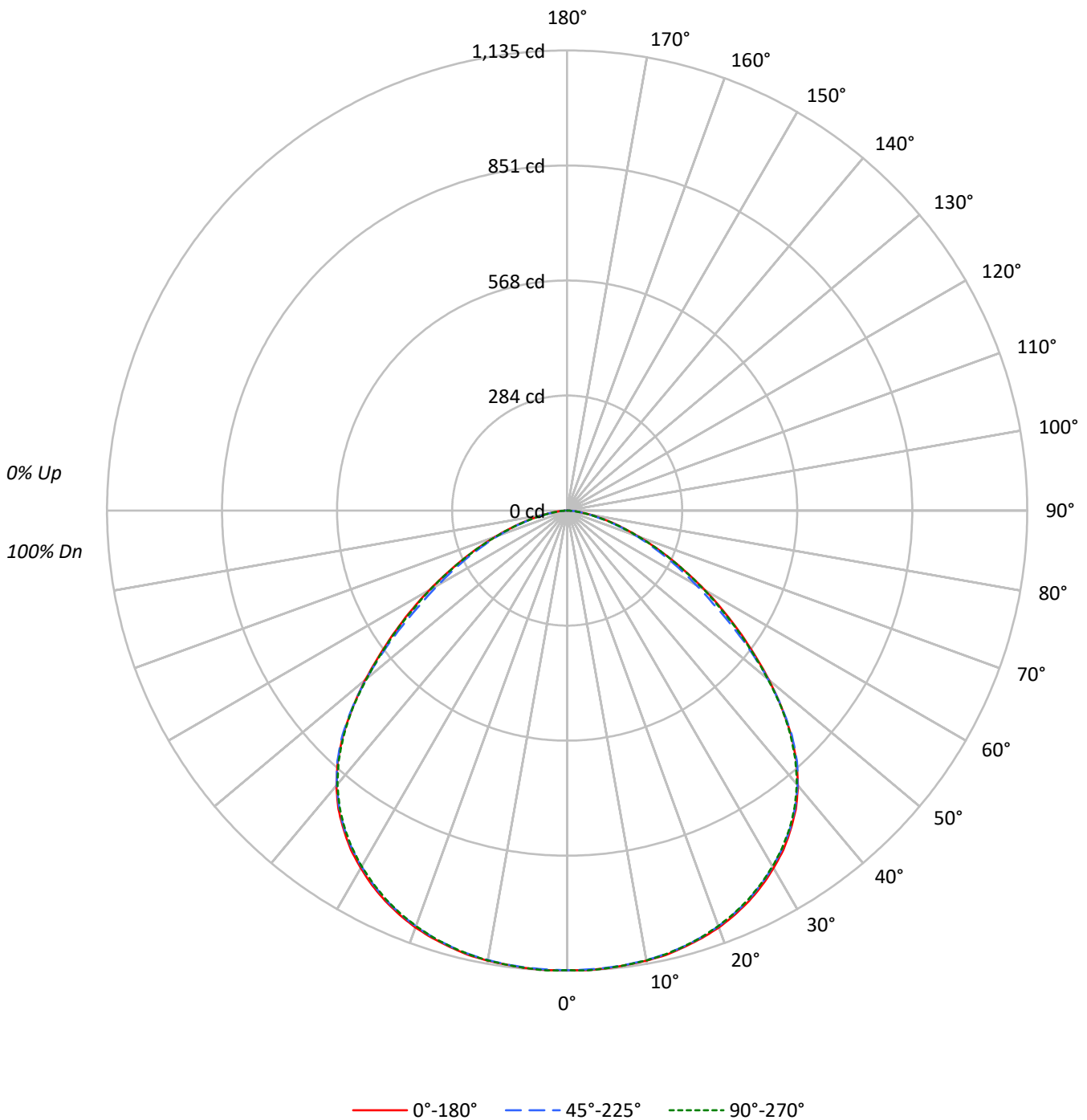
Test Method: LM-79-08  
Report Number: P412387  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-35-PB1-L940  
Description: 3500 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2976.0 lumens  
Efficiency: N/A  
Efficacy: 101.9 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

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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	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°	3050	3050	3050
5°	3060	3057	3061
10°	3080	3076	3078
15°	3105	3100	3100
20°	3134	3125	3123
25°	3154	3144	3141
30°	3164	3151	3149
35°	3157	3148	3142
40°	3110	3106	3097
45°	2973	2982	2960
50°	2722	2707	2704
55°	2419	2334	2403
60°	2109	1981	2096
65°	1788	1692	1779
70°	1478	1418	1464
75°	1196	1119	1148
80°	863	837	831
85°	562	562	540



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.9	3.6
10°-20°	314.6	10.6
20°-30°	488.1	16.4
30°-40°	598.6	20.1
40°-50°	598.4	20.1
50°-60°	453.2	15.2
60°-70°	271.8	9.1
70°-80°	119.7	4.0
80°-90°	23.7	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°	910.5	30.6
0°-40°	1509.1	50.7
0°-60°	2560.7	86.0
0°-90°	2976.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2976.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1134	1134	1134	1134	1134	
5°	1133	1132	1132	1132	1133	108
15°	1115	1114	1113	1112	1113	315
25°	1062	1060	1059	1057	1058	490
35°	961	961	958	958	956	600
45°	781	782	784	782	778	598
55°	516	504	497	504	512	462
65°	281	271	266	270	279	281
75°	115	112	108	109	110	123
85°	18	19	18	18	18	24
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1133.6	1133.6	1133.6	1133.6	<i>1133.6</i>
2.5°	<i>1134.6</i>	<i>1132.9</i>	<i>1133.2</i>	<i>1133.2</i>	<i>1135.3</i>
5°	1132.9	1131.5	1131.8	1131.5	<i>1133.2</i>
7.5°	1130.4	1129.0	1129.3	1129.0	<i>1130.1</i>
10°	1127.2	1125.8	1125.8	1125.1	<i>1126.5</i>
12.5°	1123.0	1121.3	1120.6	1120.2	<i>1121.3</i>
15°	1114.6	1113.6	1112.9	1112.2	<i>1112.9</i>
17.5°	1105.5	1103.8	1103.1	1101.7	<i>1103.1</i>
20°	1094.3	1091.8	1091.1	1090.1	<i>1090.4</i>
22.5°	1079.6	1077.5	1076.4	1074.7	<i>1075.4</i>
25°	1062.1	1059.9	1058.9	1057.1	<i>1057.8</i>
27.5°	1041.7	1040.3	1037.9	1036.5	<i>1036.8</i>
30°	1018.2	1016.8	1014.0	1013.3	<i>1013.3</i>
32.5°	992.3	990.5	988.1	987.4	<i>987.0</i>
35°	961.1	960.8	958.3	957.6	<i>956.5</i>
37.5°	927.1	926.4	923.6	922.9	<i>921.8</i>
40°	885.4	884.7	884.3	882.9	<i>881.5</i>
42.5°	837.0	838.1	838.8	836.0	<i>833.2</i>
45°	781.3	782.3	783.7	781.6	<i>777.8</i>
47.5°	716.1	720.3	718.2	719.6	<i>715.7</i>
50°	650.2	650.2	646.7	648.1	<i>646.0</i>
52.5°	581.1	575.5	571.3	574.1	<i>576.9</i>
55°	515.6	504.4	497.4	504.0	<i>512.1</i>
57.5°	452.9	439.5	426.6	437.1	<i>446.9</i>
60°	391.9	376.4	368.0	375.7	<i>389.4</i>
62.5°	334.0	322.8	314.4	320.4	<i>331.9</i>
65°	280.8	270.9	265.7	270.2	<i>279.4</i>
67.5°	232.0	225.4	220.1	224.0	<i>231.0</i>
70°	187.9	186.1	180.2	181.9	<i>186.1</i>
72.5°	147.6	147.2	142.0	143.4	<i>145.8</i>
75°	115.0	112.5	107.6	109.4	<i>110.4</i>
77.5°	81.3	82.4	77.8	78.9	<i>78.9</i>
80°	55.7	57.5	54.0	53.3	<i>53.6</i>
82.5°	35.4	35.4	35.1	34.7	<i>33.6</i>
85°	18.2	18.9	18.2	17.5	<i>17.5</i>
87.5°	7.0	7.0	7.0	6.7	<i>6.3</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)