

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: P412472

Luminaire Tested: **22PD-85-PB1-L840**

Issue Date: 9/15/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P412472  
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-85-PB1-L840  
Description: 8500 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

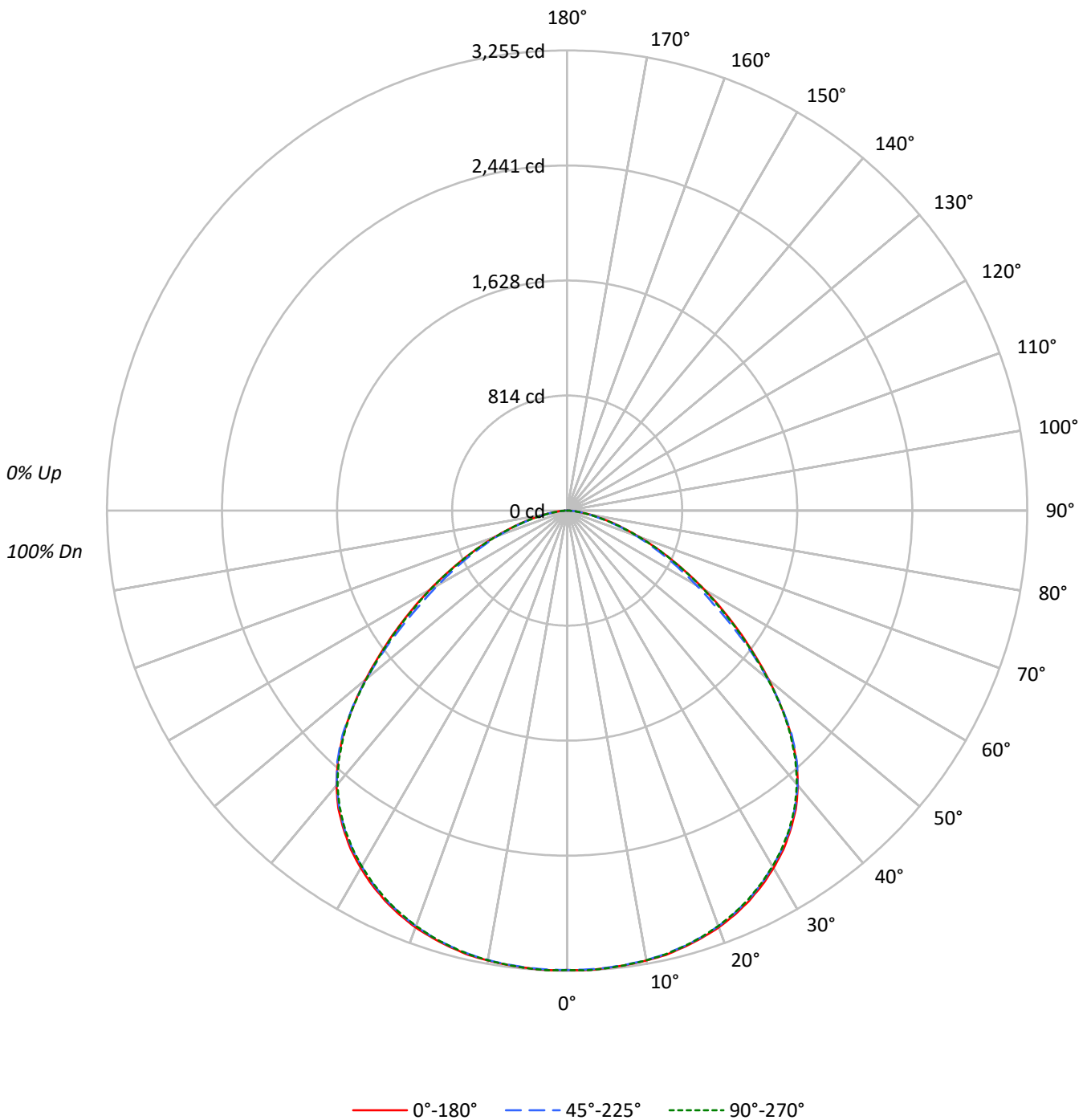
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8533.0 lumens  
Efficiency: N/A  
Efficacy: 110.4 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): 77.3  
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°	8746	8746	8746
5°	8774	8766	8777
10°	8832	8821	8826
15°	8903	8890	8890
20°	8985	8959	8954
25°	9042	9015	9006
30°	9072	9034	9028
35°	9053	9026	9010
40°	8918	8907	8879
45°	8525	8552	8487
50°	7805	7762	7754
55°	6936	6691	6889
60°	6047	5680	6009
65°	5126	4851	5100
70°	4238	4065	4199
75°	3427	3208	3292
80°	2476	2399	2383
85°	1615	1615	1553



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	309.3	3.6
10°-20°	902.0	10.6
20°-30°	1399.6	16.4
30°-40°	1716.3	20.1
40°-50°	1715.6	20.1
50°-60°	1299.6	15.2
60°-70°	779.4	9.1
70°-80°	343.2	4.0
80°-90°	68.1	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°	2610.8	30.6
0°-40°	4327.1	50.7
0°-60°	7342.3	86.0
0°-90°	8533.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8533.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3250	3250	3250	3250	3250	
5°	3248	3244	3245	3244	3249	310
15°	3196	3193	3191	3189	3191	904
25°	3045	3039	3036	3031	3033	1404
35°	2756	2755	2748	2746	2743	1721
45°	2240	2243	2247	2241	2230	1715
55°	1478	1446	1426	1445	1468	1325
65°	805	777	762	775	801	805
75°	330	323	308	314	317	352
85°	52	54	52	50	50	69
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3250.2	3250.2	3250.2	3250.2	3250.2
2.5°	3253.2	3248.2	3249.2	3249.2	3255.2
5°	3248.2	3244.2	3245.2	3244.2	3249.2
7.5°	3241.2	3237.1	3238.2	3237.1	3240.2
10°	3232.1	3228.1	3228.1	3226.1	3230.1
12.5°	3220.1	3215.0	3213.0	3212.0	3215.0
15°	3195.9	3192.9	3190.9	3188.9	3190.9
17.5°	3169.8	3164.8	3162.8	3158.8	3162.8
20°	3137.6	3130.6	3128.6	3125.6	3126.6
22.5°	3095.4	3089.4	3086.4	3081.4	3083.4
25°	3045.2	3039.2	3036.1	3031.1	3033.1
27.5°	2986.9	2982.9	2975.8	2971.8	2972.8
30°	2919.6	2915.5	2907.5	2905.5	2905.5
32.5°	2845.2	2840.2	2833.1	2831.1	2830.1
35°	2755.7	2754.7	2747.7	2745.7	2742.7
37.5°	2658.3	2656.2	2648.2	2646.2	2643.2
40°	2538.7	2536.7	2535.6	2531.6	2527.6
42.5°	2400.0	2403.0	2405.0	2397.0	2388.9
45°	2240.2	2243.2	2247.2	2241.2	2230.1
47.5°	2053.2	2065.3	2059.3	2063.3	2052.2
50°	1864.3	1864.3	1854.2	1858.3	1852.2
52.5°	1666.3	1650.2	1638.2	1646.2	1654.3
55°	1478.4	1446.2	1426.1	1445.2	1468.3
57.5°	1298.5	1260.3	1223.1	1253.3	1281.4
60°	1123.6	1079.4	1055.3	1077.4	1116.6
62.5°	957.8	925.6	901.5	918.6	951.7
65°	805.0	776.9	761.8	774.9	801.0
67.5°	665.3	646.2	631.1	642.2	662.3
70°	538.7	533.7	516.6	521.6	533.7
72.5°	423.1	422.1	407.0	411.1	418.1
75°	329.6	322.6	308.5	313.6	316.6
77.5°	233.2	236.2	223.1	226.1	226.1
80°	159.8	164.8	154.8	152.8	153.8
82.5°	101.5	101.5	100.5	99.5	96.5
85°	52.3	54.3	52.3	50.3	50.3
87.5°	20.1	20.1	20.1	19.1	18.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)