

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: P412473

Luminaire Tested: **22PD-85-PB1-L850**

Issue Date: 9/15/2020



**Test Information**

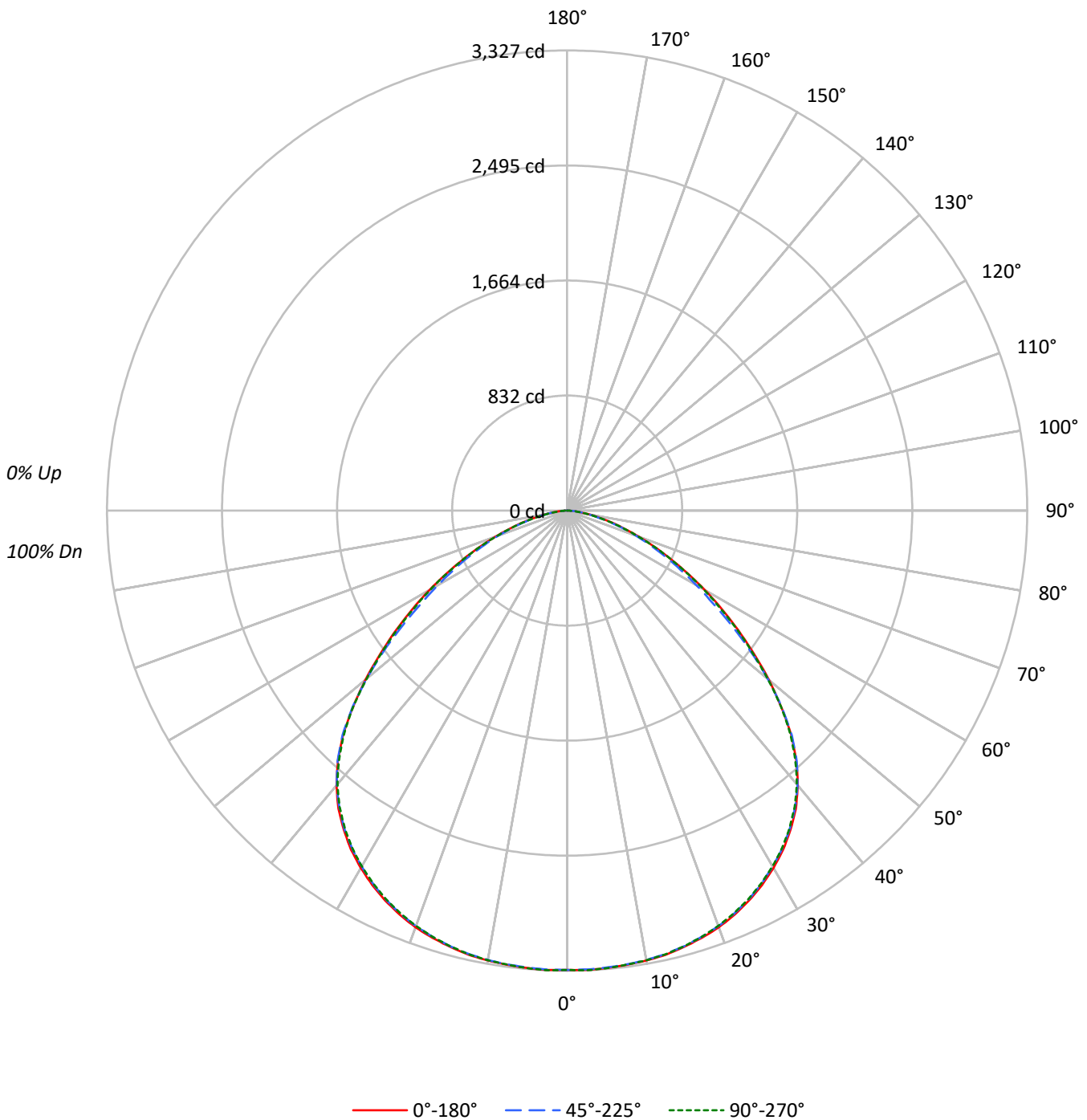
Test Method: LM-79-08  
Report Number: P412473  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-85-PB1-L850  
Description: 8500 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8720.0 lumens  
Efficiency: N/A  
Efficacy: 112.8 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 (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

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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°	8938	8938	8938
5°	8967	8958	8969
10°	9025	9014	9020
15°	9099	9084	9084
20°	9182	9156	9150
25°	9240	9212	9203
30°	9271	9232	9226
35°	9251	9224	9207
40°	9113	9102	9074
45°	8712	8740	8673
50°	7976	7933	7924
55°	7088	6838	7040
60°	6180	5804	6141
65°	5238	4957	5212
70°	4331	4153	4291
75°	3503	3278	3363
80°	2531	2452	2435
85°	1649	1649	1587



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	316.0	3.6
10°-20°	921.7	10.6
20°-30°	1430.2	16.4
30°-40°	1753.9	20.1
40°-50°	1753.2	20.1
50°-60°	1328.1	15.2
60°-70°	796.5	9.1
70°-80°	350.7	4.0
80°-90°	69.6	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°	2668.0	30.6
0°-40°	4421.9	50.7
0°-60°	7503.2	86.0
0°-90°	8720.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8720.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3321	3321	3321	3321	3321	
5°	3319	3315	3316	3315	3320	316
15°	3266	3263	3261	3259	3261	923
25°	3112	3106	3103	3098	3100	1434
35°	2816	2815	2808	2806	2803	1759
45°	2289	2292	2296	2290	2279	1753
55°	1511	1478	1457	1477	1500	1354
65°	823	794	778	792	818	823
75°	337	330	315	320	324	359
85°	53	56	53	51	51	70
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3321.4	3321.4	3321.4	3321.4	3321.4
2.5°	3324.5	3319.4	3320.4	3320.4	3326.6
5°	3319.4	3315.3	3316.3	3315.3	3320.4
7.5°	3312.2	3308.1	3309.1	3308.1	3311.2
10°	3303.0	3298.8	3298.8	3296.8	3300.9
12.5°	3290.6	3285.5	3283.4	3282.4	3285.5
15°	3266.0	3262.9	3260.8	3258.8	3260.8
17.5°	3239.3	3234.1	3232.1	3228.0	3232.1
20°	3206.4	3199.2	3197.2	3194.1	3195.1
22.5°	3163.3	3157.1	3154.0	3148.9	3151.0
25°	3111.9	3105.8	3102.7	3097.5	3099.6
27.5°	3052.4	3048.2	3041.1	3036.9	3038.0
30°	2983.5	2979.4	2971.2	2969.2	2969.2
32.5°	2907.5	2902.4	2895.2	2893.2	2892.1
35°	2816.1	2815.1	2807.9	2805.9	2802.8
37.5°	2716.5	2714.5	2706.2	2704.2	2701.1
40°	2594.3	2592.2	2591.2	2587.1	2583.0
42.5°	2452.6	2455.6	2457.7	2449.5	2441.3
45°	2289.3	2292.3	2296.5	2290.3	2279.0
47.5°	2098.2	2110.6	2104.4	2108.5	2097.2
50°	1905.2	1905.2	1894.9	1899.0	1892.8
52.5°	1702.8	1686.4	1674.1	1682.3	1690.5
55°	1510.8	1477.9	1457.4	1476.9	1500.5
57.5°	1326.9	1287.9	1249.9	1280.7	1309.5
60°	1148.2	1103.0	1078.4	1101.0	1141.0
62.5°	978.8	945.9	921.3	938.7	972.6
65°	822.7	793.9	778.5	791.8	818.5
67.5°	679.9	660.4	645.0	656.3	676.8
70°	550.5	545.4	527.9	533.0	545.4
72.5°	432.4	431.4	416.0	420.1	427.2
75°	336.9	329.7	315.3	320.4	323.5
77.5°	238.3	241.4	228.0	231.1	231.1
80°	163.3	168.4	158.2	156.1	157.1
82.5°	103.7	103.7	102.7	101.7	98.6
85°	53.4	55.5	53.4	51.4	51.4
87.5°	20.5	20.5	20.5	19.5	18.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)