

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: P412812

Luminaire Tested: **22PD-85-PP3-L830**

Issue Date: 9/15/2020



**Test Information**

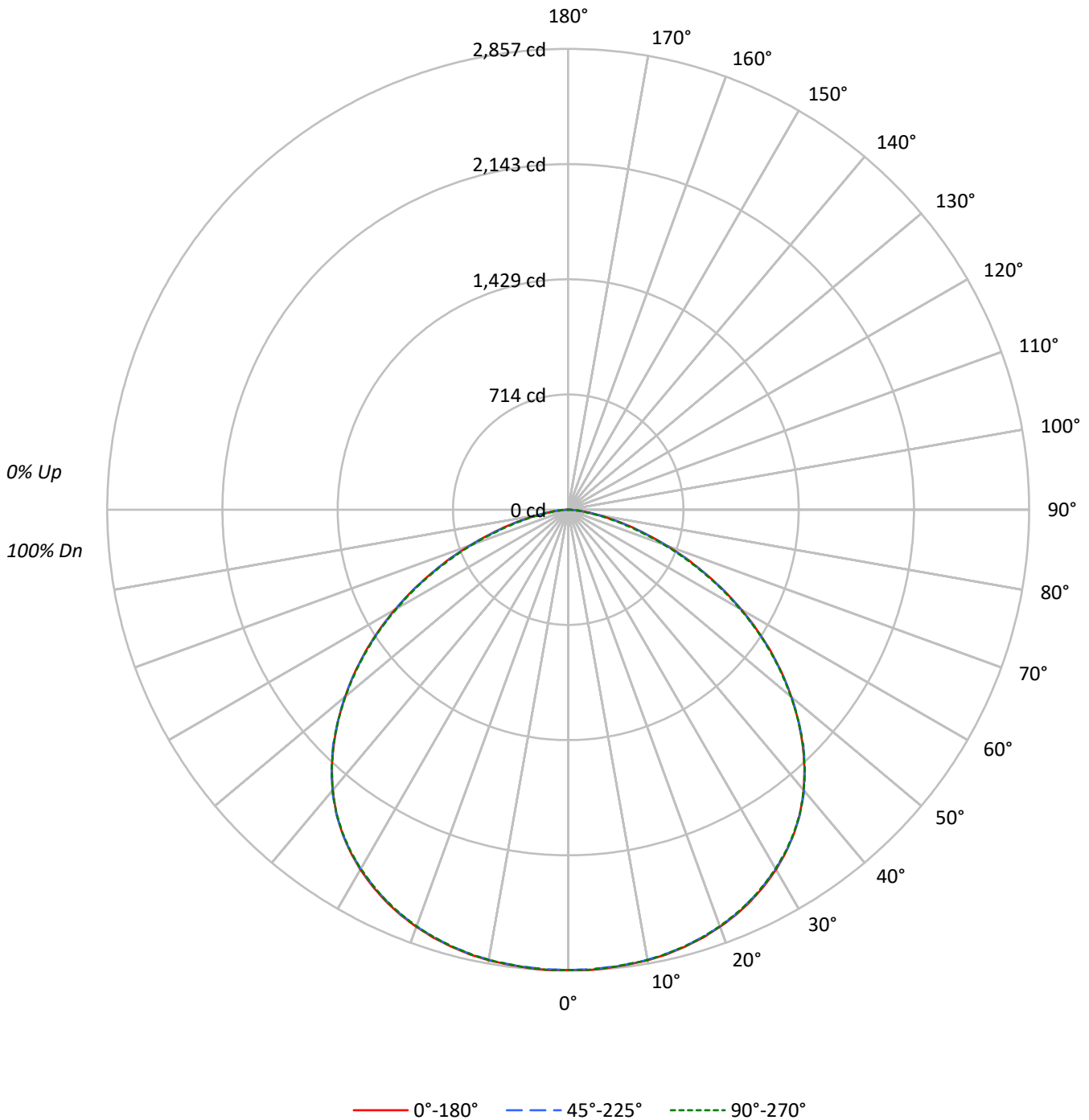
Test Method: LM-79-08  
Report Number: P412812  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-85-PP3-L830  
Description: 8500 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: 8187.0 lumens  
Efficiency: N/A  
Efficacy: 105.9 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): 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	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°	7679	7679	7679
5°	7703	7693	7698
10°	7750	7740	7745
15°	7812	7804	7804
20°	7880	7871	7869
25°	7949	7935	7935
30°	8005	7990	7988
35°	8028	8028	8019
40°	7976	7992	7976
45°	7818	7839	7828
50°	7554	7567	7546
55°	7192	7174	7161
60°	6676	6661	6610
65°	5964	5957	5890
70°	5098	5068	4955
75°	4061	3943	3824
80°	2893	2834	2687
85°	1883	1883	1825



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	271.4	3.3
10°-20°	791.6	9.7
20°-30°	1232.5	15.1
30°-40°	1525.5	18.6
40°-50°	1581.8	19.3
50°-60°	1363.4	16.7
60°-70°	927.0	11.3
70°-80°	414.8	5.1
80°-90°	79.0	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°	2295.5	28.0
0°-40°	3821.0	46.7
0°-60°	6766.2	82.6
0°-90°	8187.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8187.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2854	2854	2854	2854	2854	
5°	2852	2846	2848	2847	2850	272
15°	2804	2799	2801	2799	2801	793
25°	2677	2674	2672	2672	2672	1235
35°	2444	2441	2444	2440	2441	1526
45°	2054	2052	2060	2055	2057	1581
55°	1533	1527	1529	1526	1526	1367
65°	937	944	936	933	925	930
75°	391	392	379	377	368	420
85°	61	63	61	59	59	80
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2853.5	2853.5	2853.5	2853.5	2853.5
2.5°	2857.3	2851.6	2851.6	2852.6	2855.4
5°	2851.6	2845.9	2847.8	2846.9	2849.7
7.5°	2844.0	2839.2	2842.1	2840.2	2842.1
10°	2836.4	2831.6	2832.6	2831.6	2834.5
12.5°	2823.0	2817.3	2819.2	2819.2	2820.2
15°	2804.0	2799.2	2801.1	2799.2	2801.1
17.5°	2781.1	2775.4	2776.4	2775.4	2777.3
20°	2751.6	2747.8	2748.7	2746.8	2747.8
22.5°	2718.2	2713.5	2714.4	2712.5	2712.5
25°	2677.3	2673.5	2672.5	2671.6	2672.5
27.5°	2629.6	2624.9	2624.9	2623.9	2623.9
30°	2576.3	2571.5	2571.5	2570.6	2570.6
32.5°	2513.4	2511.5	2512.4	2510.5	2509.6
35°	2443.8	2441.0	2443.8	2440.0	2441.0
37.5°	2362.9	2359.0	2364.8	2361.0	2361.9
40°	2270.4	2268.5	2275.2	2272.3	2270.4
42.5°	2167.5	2167.5	2170.4	2171.4	2169.4
45°	2054.2	2052.3	2059.9	2055.1	2057.0
47.5°	1932.2	1929.4	1935.1	1934.1	1933.2
50°	1804.5	1802.6	1807.4	1802.6	1802.6
52.5°	1672.1	1671.2	1672.1	1667.3	1666.4
55°	1533.0	1527.3	1529.2	1526.3	1526.3
57.5°	1388.2	1381.5	1382.5	1381.5	1382.5
60°	1240.5	1238.6	1237.6	1232.9	1228.1
62.5°	1089.0	1090.9	1090.0	1083.3	1078.5
65°	936.6	944.2	935.6	932.8	925.1
67.5°	792.7	795.6	789.8	783.2	774.6
70°	647.9	653.6	644.1	637.4	629.8
72.5°	509.7	513.5	505.0	501.2	491.6
75°	390.6	391.6	379.2	377.3	367.8
77.5°	278.2	282.0	272.5	272.5	263.0
80°	186.7	193.4	182.9	180.1	173.4
82.5°	117.2	118.1	115.3	112.4	109.6
85°	61.0	62.9	61.0	59.1	59.1
87.5°	22.9	23.8	22.9	21.9	22.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)