

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: P412803

Luminaire Tested: **22PD-80-PP3-L830**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412803
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-80-PP3-L830
Description: 8000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

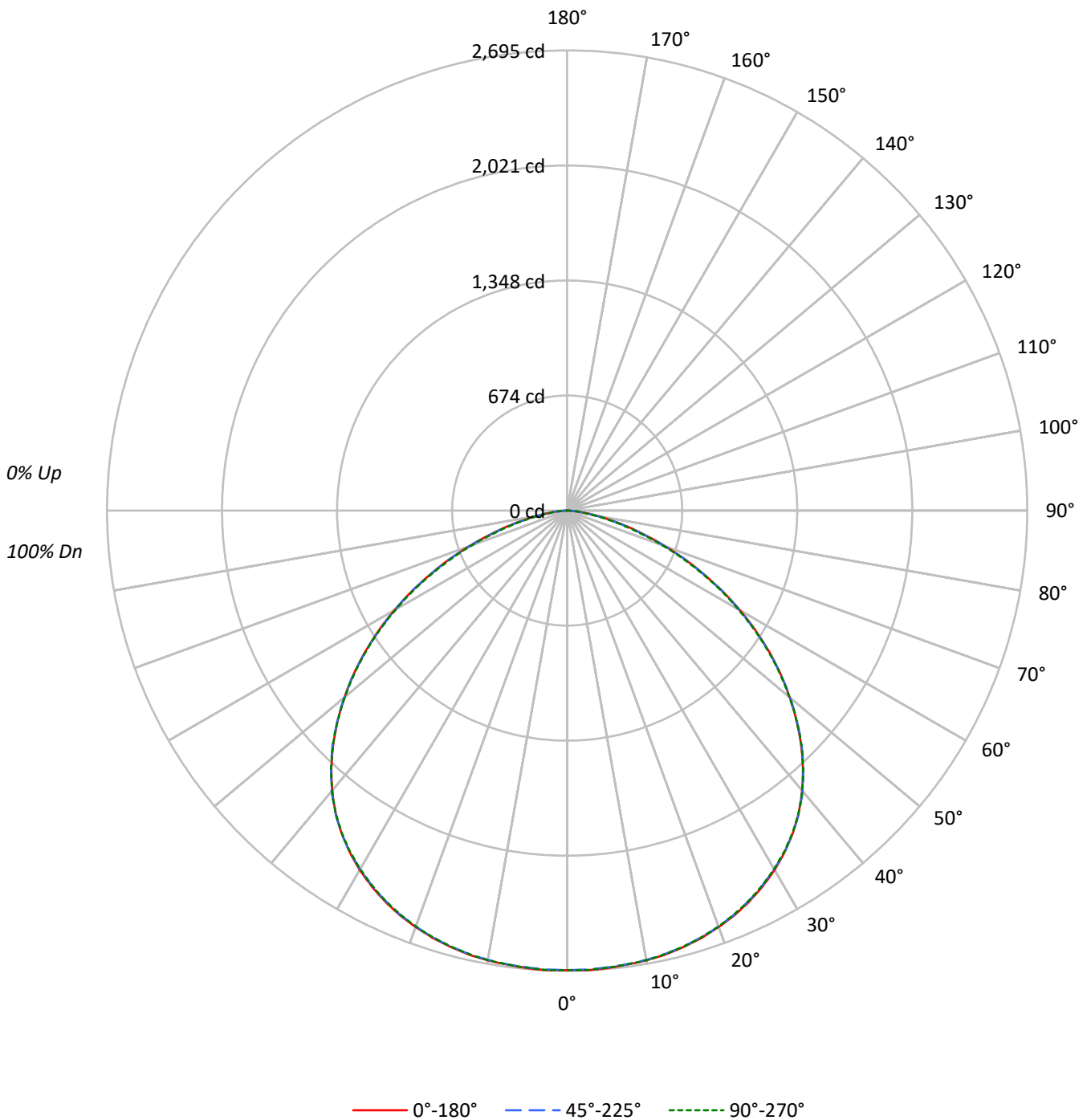
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7722.0 lumens
Efficiency: N/A
Efficacy: 106.4 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): 72.6
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°	7243	7243	7243
5°	7266	7256	7261
10°	7310	7300	7305
15°	7368	7360	7360
20°	7432	7424	7422
25°	7498	7484	7484
30°	7551	7537	7534
35°	7572	7572	7563
40°	7523	7539	7523
45°	7373	7394	7384
50°	7125	7137	7118
55°	6784	6767	6754
60°	6297	6282	6234
65°	5625	5619	5556
70°	4808	4780	4674
75°	3830	3719	3607
80°	2729	2673	2535
85°	1775	1775	1720



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.0	3.3
10°-20°	746.6	9.7
20°-30°	1162.5	15.1
30°-40°	1438.8	18.6
40°-50°	1492.0	19.3
50°-60°	1286.0	16.7
60°-70°	874.3	11.3
70°-80°	391.2	5.1
80°-90°	74.5	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°	2165.1	28.0
0°-40°	3604.0	46.7
0°-60°	6381.9	82.6
0°-90°	7722.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7722.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2692	2692	2692	2692	2692	
5°	2690	2684	2686	2685	2688	256
15°	2645	2640	2642	2640	2642	748
25°	2525	2522	2521	2520	2521	1164
35°	2305	2302	2305	2301	2302	1440
45°	1938	1936	1943	1938	1940	1491
55°	1446	1440	1442	1440	1440	1289
65°	883	891	882	880	873	877
75°	368	369	358	356	347	396
85°	58	59	58	56	56	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2691.5	2691.5	2691.5	2691.5	2691.5
2.5°	2695.1	2689.7	2689.7	2690.6	2693.3
5°	2689.7	2684.3	2686.1	2685.2	2687.9
7.5°	2682.5	2678.0	2680.7	2678.9	2680.7
10°	2675.3	2670.8	2671.7	2670.8	2673.5
12.5°	2662.7	2657.3	2659.1	2659.1	2660.0
15°	2644.7	2640.2	2642.0	2640.2	2642.0
17.5°	2623.2	2617.8	2618.7	2617.8	2619.6
20°	2595.3	2591.7	2592.6	2590.8	2591.7
22.5°	2563.9	2559.4	2560.3	2558.5	2558.5
25°	2525.2	2521.6	2520.7	2519.8	2520.7
27.5°	2480.3	2475.8	2475.8	2474.9	2474.9
30°	2430.0	2425.5	2425.5	2424.6	2424.6
32.5°	2370.6	2368.8	2369.7	2367.9	2367.0
35°	2305.0	2302.3	2305.0	2301.4	2302.3
37.5°	2228.7	2225.1	2230.5	2226.9	2227.8
40°	2141.5	2139.7	2146.0	2143.3	2141.5
42.5°	2044.4	2044.4	2047.1	2048.0	2046.2
45°	1937.5	1935.7	1942.9	1938.4	1940.2
47.5°	1822.5	1819.8	1825.2	1824.3	1823.4
50°	1702.0	1700.2	1704.7	1700.2	1700.2
52.5°	1577.1	1576.2	1577.1	1572.6	1571.7
55°	1445.9	1440.5	1442.3	1439.6	1439.6
57.5°	1309.3	1303.0	1303.9	1303.0	1303.9
60°	1170.0	1168.2	1167.3	1162.9	1158.4
62.5°	1027.2	1029.0	1028.1	1021.8	1017.3
65°	883.4	890.6	882.5	879.8	872.6
67.5°	747.7	750.4	745.0	738.7	730.6
70°	611.1	616.5	607.5	601.2	594.0
72.5°	480.8	484.4	476.3	472.7	463.7
75°	368.4	369.3	357.7	355.9	346.9
77.5°	262.4	266.0	257.0	257.0	248.0
80°	176.1	182.4	172.5	169.8	163.6
82.5°	110.5	111.4	108.7	106.0	103.3
85°	57.5	59.3	57.5	55.7	55.7
87.5°	21.6	22.5	21.6	20.7	21.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)