

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: P412947

Luminaire Tested: **24PD-95-PP3-L830**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412947
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-95-PP3-L830
Description: 9500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

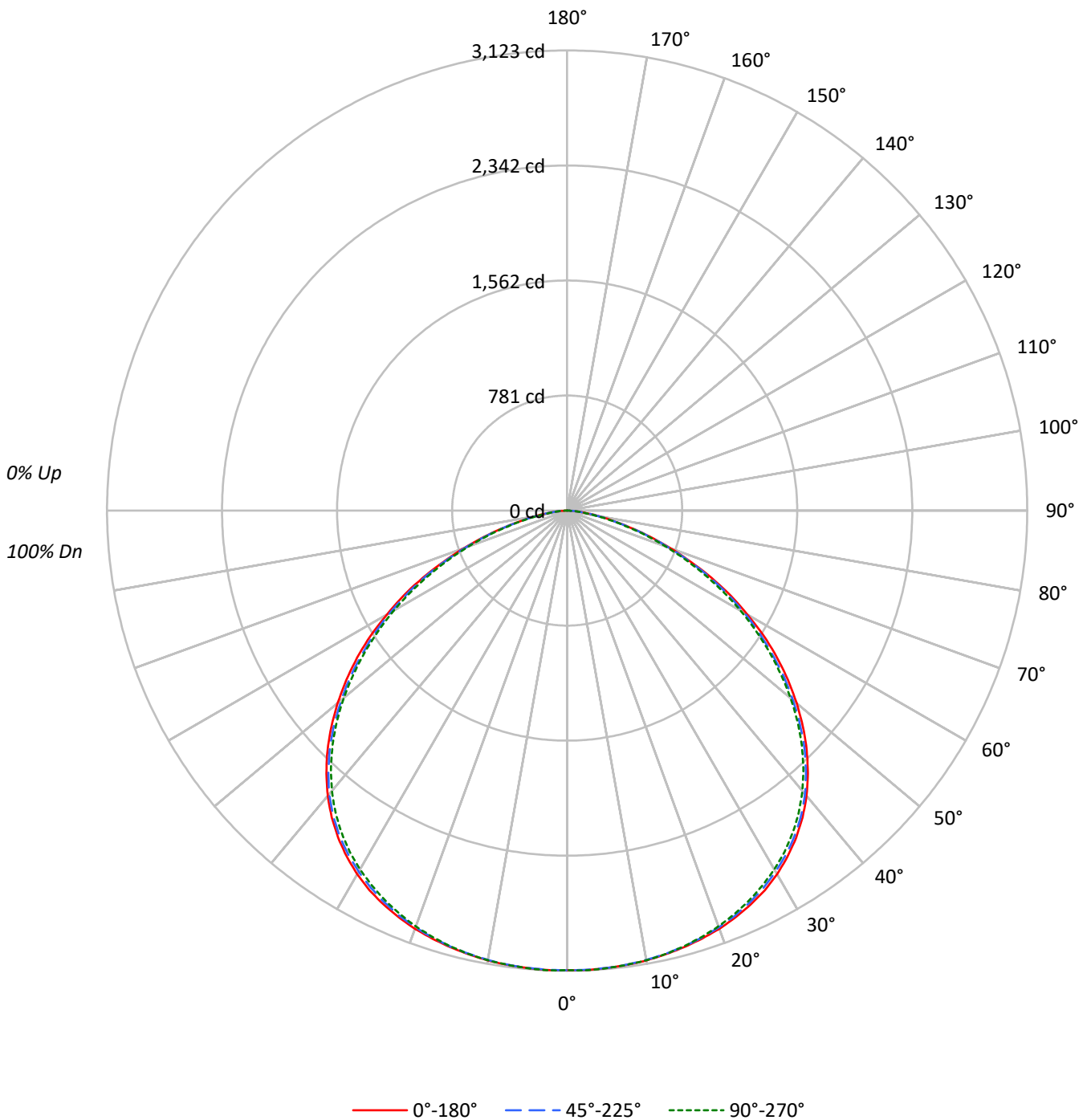
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9078.0 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.33 / 1.43
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 73
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	86	81	77		83	79	75		80	77	74	71
3	91	81	73	66	89	79	72	66	76	70	65		73	68	64		71	66	63	60
4	83	72	63	56	81	70	62	56	68	61	55		65	59	54		63	58	54	52
5	77	64	55	49	75	63	54	48	61	53	48		59	52	47		57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42		53	46	41		52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37		48	42	37		47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33		44	38	33		43	37	32	31
9	57	44	35	30	55	43	35	30	42	35	30		41	34	29		40	34	29	27
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°	4198	4198	4198
5°	4209	4208	4210
10°	4235	4230	4234
15°	4272	4266	4264
20°	4324	4310	4300
25°	4378	4356	4335
30°	4427	4396	4368
35°	4451	4424	4384
40°	4439	4412	4363
45°	4376	4333	4285
50°	4255	4187	4144
55°	4080	3982	3931
60°	3801	3735	3659
65°	3446	3376	3278
70°	2941	2887	2794
75°	2297	2273	2165
80°	1694	1624	1533
85°	1022	1022	953



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.8	3.3
10°-20°	866.1	9.5
20°-30°	1353.8	14.9
30°-40°	1682.5	18.5
40°-50°	1753.0	19.3
50°-60°	1521.2	16.8
60°-70°	1046.0	11.5
70°-80°	472.0	5.2
80°-90°	86.5	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°	2516.8	27.7
0°-40°	4199.3	46.3
0°-60°	7473.5	82.3
0°-90°	9078.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9078.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3120	3120	3120	3120	3120	
5°	3116	3117	3115	3113	3117	297
15°	3067	3067	3063	3060	3061	868
25°	2949	2948	2934	2922	2920	1361
35°	2710	2710	2694	2678	2669	1693
45°	2300	2301	2277	2260	2252	1770
55°	1739	1729	1697	1677	1676	1550
65°	1082	1078	1060	1035	1030	1068
75°	442	444	437	426	416	481
85°	66	65	66	65	62	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3119.8	3119.8	3119.8	3119.8	3119.8
2.5°	3120.8	3120.8	3118.9	3116.2	3122.6
5°	3116.2	3117.1	3115.3	3112.6	3117.1
7.5°	3109.9	3110.8	3108.1	3105.3	3109.0
10°	3099.9	3099.0	3096.3	3094.4	3099.0
12.5°	3085.4	3084.5	3081.7	3079.9	3083.6
15°	3067.2	3067.2	3062.7	3060.0	3060.9
17.5°	3045.5	3045.5	3039.1	3032.8	3034.6
20°	3020.1	3019.1	3010.1	3003.7	3002.8
22.5°	2988.3	2988.3	2975.6	2967.4	2964.7
25°	2949.3	2948.4	2933.9	2922.1	2920.3
27.5°	2904.8	2903.0	2885.8	2874.0	2869.5
30°	2849.5	2847.7	2829.5	2816.8	2811.4
32.5°	2784.2	2786.9	2766.0	2751.5	2746.1
35°	2709.8	2709.8	2693.5	2678.0	2669.0
37.5°	2624.5	2624.5	2609.1	2593.7	2582.8
40°	2527.4	2528.4	2512.0	2493.0	2483.9
42.5°	2418.6	2420.4	2398.6	2383.2	2373.2
45°	2299.7	2300.6	2277.1	2259.8	2251.7
47.5°	2170.9	2169.1	2142.8	2128.3	2120.1
50°	2033.0	2029.4	2000.4	1986.8	1979.5
52.5°	1888.8	1881.5	1856.1	1836.2	1829.8
55°	1739.1	1729.1	1697.4	1677.4	1675.6
57.5°	1583.1	1571.3	1545.0	1525.9	1518.6
60°	1412.5	1409.8	1388.0	1365.3	1359.9
62.5°	1252.8	1244.7	1225.6	1198.4	1195.7
65°	1082.3	1077.7	1060.5	1035.1	1029.7
67.5°	906.3	910.8	896.3	873.6	866.4
70°	747.5	750.3	733.9	713.1	710.3
72.5°	587.9	592.4	578.8	565.2	562.5
75°	441.8	443.6	437.3	425.5	416.4
77.5°	313.9	320.2	313.0	304.8	297.6
80°	218.6	208.7	209.6	205.9	197.8
82.5°	131.5	127.0	126.1	122.5	118.8
85°	66.2	65.3	66.2	65.3	61.7
87.5°	21.8	23.6	24.5	24.5	22.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)