

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: P412826

Luminaire Tested: **24PD-100-PP3-L930**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412826
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-100-PP3-L930
Description: 10000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

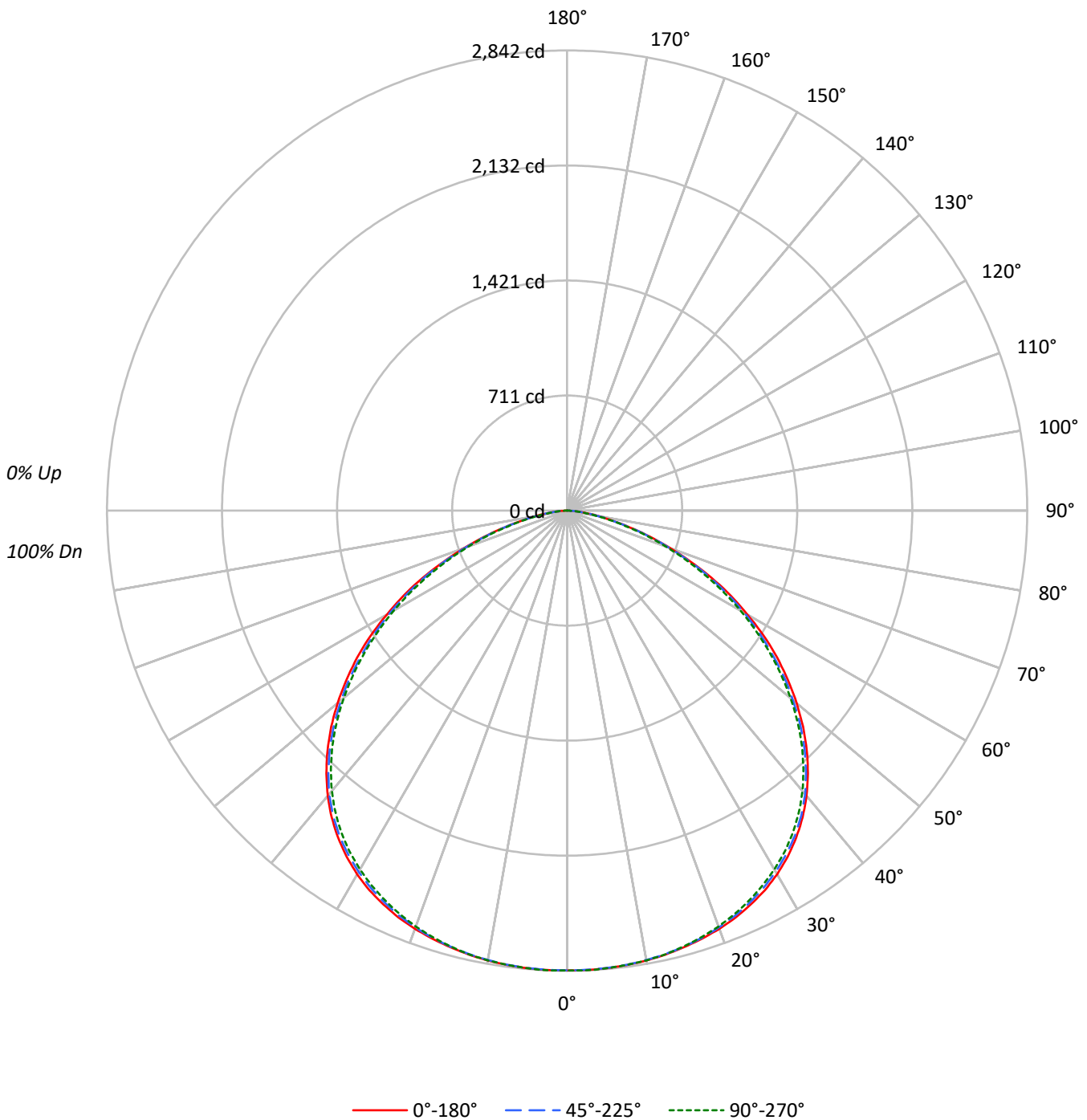
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8263.0 lumens
Efficiency: N/A
Efficacy: 106.8 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): 77.4
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°	3821	3821	3821
5°	3831	3830	3832
10°	3855	3850	3854
15°	3889	3883	3881
20°	3936	3923	3914
25°	3985	3965	3946
30°	4030	4001	3976
35°	4051	4027	3990
40°	4041	4016	3971
45°	3983	3944	3900
50°	3873	3811	3772
55°	3713	3624	3578
60°	3460	3400	3331
65°	3136	3073	2984
70°	2677	2628	2544
75°	2090	2069	1970
80°	1542	1478	1395
85°	931	931	868



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.2	3.3
10°-20°	788.4	9.5
20°-30°	1232.3	14.9
30°-40°	1531.5	18.5
40°-50°	1595.7	19.3
50°-60°	1384.6	16.8
60°-70°	952.1	11.5
70°-80°	429.6	5.2
80°-90°	78.7	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°	2290.8	27.7
0°-40°	3822.3	46.3
0°-60°	6802.6	82.3
0°-90°	8263.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8263.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2840	2840	2840	2840	2840	
5°	2836	2837	2836	2833	2837	270
15°	2792	2792	2788	2785	2786	790
25°	2684	2684	2670	2660	2658	1238
35°	2466	2466	2452	2438	2429	1541
45°	2093	2094	2073	2057	2050	1611
55°	1583	1574	1545	1527	1525	1411
65°	985	981	965	942	937	972
75°	402	404	398	387	379	438
85°	60	60	60	60	56	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2839.8	2839.8	2839.8	2839.8	2839.8
2.5°	2840.6	2840.6	2838.9	2836.4	2842.2
5°	2836.4	2837.3	2835.6	2833.1	2837.3
7.5°	2830.7	2831.5	2829.0	2826.5	2829.8
10°	2821.6	2820.8	2818.3	2816.6	2820.8
12.5°	2808.4	2807.5	2805.1	2803.4	2806.7
15°	2791.9	2791.9	2787.7	2785.3	2786.1
17.5°	2772.0	2772.0	2766.3	2760.5	2762.1
20°	2748.9	2748.1	2739.8	2734.1	2733.2
22.5°	2720.0	2720.0	2708.5	2701.0	2698.5
25°	2684.5	2683.7	2670.5	2659.7	2658.1
27.5°	2644.0	2642.4	2626.7	2616.0	2611.8
30°	2593.7	2592.0	2575.5	2564.0	2559.0
32.5°	2534.2	2536.7	2517.7	2504.5	2499.5
35°	2466.5	2466.5	2451.7	2437.6	2429.4
37.5°	2388.9	2388.9	2374.9	2360.8	2350.9
40°	2300.5	2301.4	2286.5	2269.2	2260.9
42.5°	2201.4	2203.1	2183.3	2169.2	2160.2
45°	2093.3	2094.1	2072.6	2056.9	2049.5
47.5°	1976.0	1974.4	1950.4	1937.2	1929.8
50°	1850.5	1847.2	1820.8	1808.4	1801.8
52.5°	1719.2	1712.6	1689.5	1671.3	1665.5
55°	1583.0	1573.9	1545.0	1526.8	1525.2
57.5°	1440.9	1430.2	1406.3	1388.9	1382.3
60°	1285.7	1283.2	1263.4	1242.8	1237.8
62.5°	1140.4	1132.9	1115.6	1090.8	1088.3
65°	985.1	981.0	965.3	942.2	937.2
67.5°	824.9	829.1	815.8	795.2	788.6
70°	680.4	682.9	668.0	649.0	646.6
72.5°	535.1	539.2	526.8	514.4	512.0
75°	402.1	403.8	398.0	387.3	379.0
77.5°	285.7	291.5	284.9	277.5	270.8
80°	199.0	189.9	190.7	187.4	180.0
82.5°	119.7	115.6	114.8	111.5	108.2
85°	60.3	59.5	60.3	59.5	56.2
87.5°	19.8	21.5	22.3	22.3	20.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)