

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: P412943

Luminaire Tested: **24PD-90-PP3-L930**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412943
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-90-PP3-L930
Description: 9000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

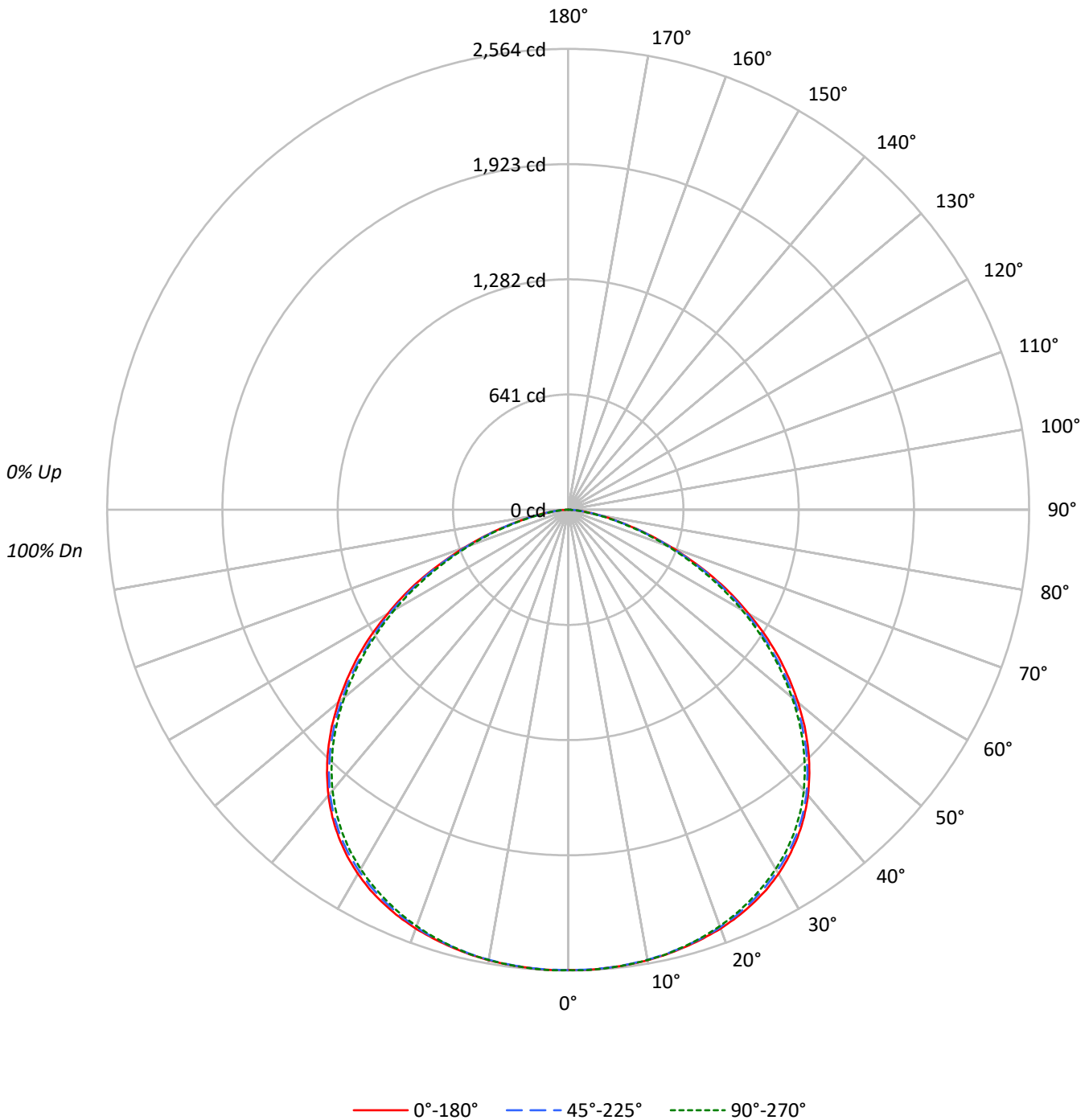
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7454.0 lumens
Efficiency: N/A
Efficacy: 108.5 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): 68.7
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°	3447	3447	3447
5°	3456	3455	3457
10°	3478	3474	3477
15°	3508	3503	3501
20°	3551	3539	3530
25°	3595	3576	3560
30°	3635	3610	3587
35°	3655	3633	3600
40°	3645	3623	3582
45°	3593	3558	3518
50°	3494	3438	3402
55°	3350	3269	3227
60°	3121	3067	3005
65°	2829	2772	2692
70°	2415	2371	2295
75°	1886	1866	1777
80°	1391	1333	1258
85°	840	840	783



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.7	3.3
10°-20°	711.2	9.5
20°-30°	1111.6	14.9
30°-40°	1381.5	18.5
40°-50°	1439.4	19.3
50°-60°	1249.1	16.8
60°-70°	858.9	11.5
70°-80°	387.6	5.2
80°-90°	71.0	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°	2066.5	27.7
0°-40°	3448.0	46.3
0°-60°	6136.5	82.3
0°-90°	7454.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7454.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2562	2562	2562	2562	2562	
5°	2559	2560	2558	2556	2560	244
15°	2518	2518	2515	2513	2513	712
25°	2422	2421	2409	2399	2398	1117
35°	2225	2225	2212	2199	2192	1390
45°	1888	1889	1870	1856	1849	1453
55°	1428	1420	1394	1377	1376	1273
65°	889	885	871	850	846	877
75°	363	364	359	349	342	395
85°	54	54	54	54	51	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2561.7	2561.7	2561.7	2561.7	2561.7
2.5°	2562.5	2562.5	2561.0	2558.7	2564.0
5°	2558.7	2559.5	2558.0	2555.8	2559.5
7.5°	2553.5	2554.3	2552.0	2549.8	2552.8
10°	2545.3	2544.6	2542.4	2540.9	2544.6
12.5°	2533.4	2532.7	2530.4	2528.9	2531.9
15°	2518.5	2518.5	2514.8	2512.6	2513.3
17.5°	2500.6	2500.6	2495.4	2490.2	2491.7
20°	2479.8	2479.0	2471.6	2466.4	2465.6
22.5°	2453.7	2453.7	2443.3	2436.6	2434.3
25°	2421.7	2420.9	2409.0	2399.3	2397.8
27.5°	2385.2	2383.7	2369.5	2359.9	2356.1
30°	2339.7	2338.3	2323.4	2312.9	2308.5
32.5°	2286.1	2288.3	2271.2	2259.3	2254.8
35°	2225.0	2225.0	2211.6	2199.0	2191.5
37.5°	2155.0	2155.0	2142.3	2129.7	2120.7
40°	2075.3	2076.0	2062.6	2047.0	2039.5
42.5°	1985.9	1987.4	1969.5	1956.9	1948.7
45°	1888.3	1889.1	1869.7	1855.6	1848.9
47.5°	1782.6	1781.1	1759.5	1747.5	1740.8
50°	1669.3	1666.3	1642.5	1631.3	1625.4
52.5°	1550.9	1544.9	1524.1	1507.7	1502.5
55°	1428.0	1419.8	1393.7	1377.3	1375.8
57.5°	1299.9	1290.2	1268.6	1252.9	1247.0
60°	1159.8	1157.6	1139.7	1121.1	1116.6
62.5°	1028.7	1022.0	1006.4	984.0	981.8
65°	888.7	884.9	870.8	849.9	845.5
67.5°	744.2	747.9	736.0	717.3	711.4
70°	613.8	616.0	602.6	585.5	583.3
72.5°	482.7	486.4	475.2	464.1	461.8
75°	362.8	364.3	359.0	349.4	341.9
77.5°	257.7	263.0	257.0	250.3	244.3
80°	179.5	171.3	172.1	169.1	162.4
82.5°	108.0	104.3	103.5	100.6	97.6
85°	54.4	53.6	54.4	53.6	50.7
87.5°	17.9	19.4	20.1	20.1	18.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)