

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: P412944

Luminaire Tested: **24PD-90-PP3-L935**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412944
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-L935
Description: 9000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

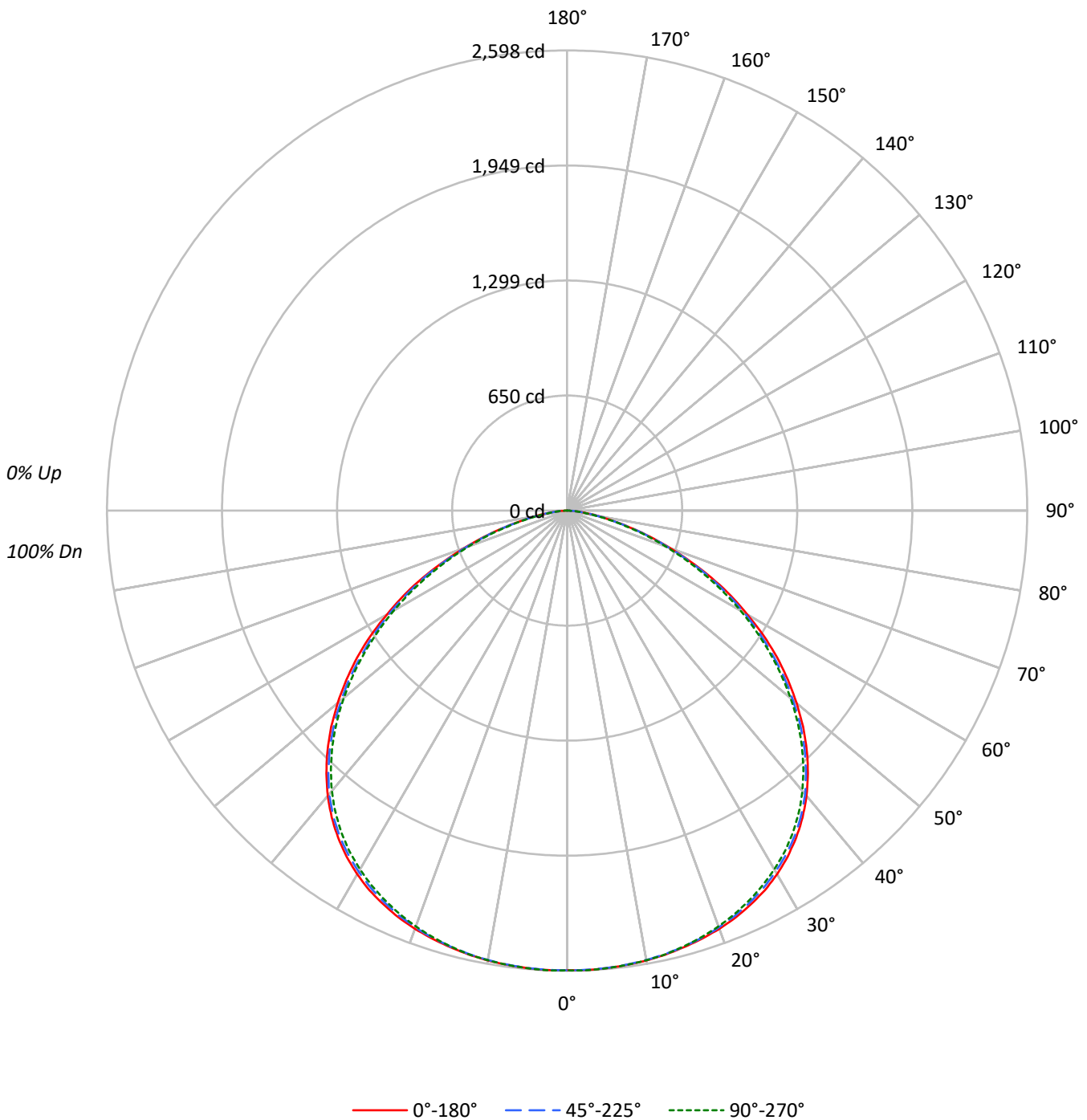
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7553.0 lumens
Efficiency: N/A
Efficacy: 109.9 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°	3492	3492	3492
5°	3502	3501	3503
10°	3524	3520	3523
15°	3555	3550	3547
20°	3598	3586	3577
25°	3643	3624	3607
30°	3683	3658	3634
35°	3703	3681	3647
40°	3694	3671	3630
45°	3641	3605	3565
50°	3541	3484	3448
55°	3394	3313	3270
60°	3162	3108	3045
65°	2867	2809	2727
70°	2447	2402	2325
75°	1911	1891	1801
80°	1409	1351	1275
85°	851	851	792



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.0	3.3
10°-20°	720.6	9.5
20°-30°	1126.4	14.9
30°-40°	1399.9	18.5
40°-50°	1458.6	19.3
50°-60°	1265.6	16.8
60°-70°	870.3	11.5
70°-80°	392.7	5.2
80°-90°	72.0	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°	2094.0	27.7
0°-40°	3493.8	46.3
0°-60°	6218.0	82.3
0°-90°	7553.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7553.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2596	2596	2596	2596	2596	
5°	2593	2594	2592	2590	2594	247
15°	2552	2552	2548	2546	2547	722
25°	2454	2453	2441	2431	2430	1132
35°	2255	2255	2241	2228	2221	1409
45°	1913	1914	1894	1880	1873	1473
55°	1447	1439	1412	1396	1394	1290
65°	900	897	882	861	857	889
75°	368	369	364	354	346	400
85°	55	54	55	54	51	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2595.7	2595.7	2595.7	2595.7	2595.7
2.5°	2596.5	2596.5	2595.0	2592.7	2598.0
5°	2592.7	2593.5	2592.0	2589.7	2593.5
7.5°	2587.4	2588.2	2585.9	2583.7	2586.7
10°	2579.1	2578.4	2576.1	2574.6	2578.4
12.5°	2567.1	2566.3	2564.0	2562.5	2565.6
15°	2552.0	2552.0	2548.2	2545.9	2546.7
17.5°	2533.9	2533.9	2528.6	2523.3	2524.8
20°	2512.7	2512.0	2504.4	2499.1	2498.4
22.5°	2486.3	2486.3	2475.7	2468.9	2466.7
25°	2453.8	2453.1	2441.0	2431.2	2429.7
27.5°	2416.9	2415.3	2401.0	2391.2	2387.4
30°	2370.8	2369.3	2354.2	2343.6	2339.1
32.5°	2316.5	2318.7	2301.4	2289.3	2284.8
35°	2254.6	2254.6	2241.0	2228.2	2220.6
37.5°	2183.6	2183.6	2170.8	2158.0	2148.9
40°	2102.9	2103.6	2090.0	2074.2	2066.6
42.5°	2012.3	2013.8	1995.7	1982.9	1974.5
45°	1913.4	1914.2	1894.5	1880.2	1873.4
47.5°	1806.2	1804.7	1782.8	1770.8	1764.0
50°	1691.5	1688.5	1664.3	1653.0	1647.0
52.5°	1571.5	1565.4	1544.3	1527.7	1522.4
55°	1446.9	1438.6	1412.2	1395.6	1394.1
57.5°	1317.1	1307.3	1285.4	1269.6	1263.5
60°	1175.2	1173.0	1154.8	1136.0	1131.4
62.5°	1042.4	1035.6	1019.7	997.1	994.8
65°	900.5	896.7	882.4	861.2	856.7
67.5°	754.0	757.8	745.7	726.9	720.8
70°	622.0	624.2	610.6	593.3	591.0
72.5°	489.1	492.9	481.6	470.2	468.0
75°	367.6	369.1	363.8	354.0	346.5
77.5°	261.2	266.4	260.4	253.6	247.6
80°	181.9	173.6	174.4	171.3	164.5
82.5°	109.4	105.7	104.9	101.9	98.9
85°	55.1	54.3	55.1	54.3	51.3
87.5°	18.1	19.6	20.4	20.4	18.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)