

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: P412600

Luminaire Tested: **24PD-90-PB1-L927**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412600
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-45)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-90-PB1-L927
Description: 9000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS
Light Source: -
Ballast/Driver: -

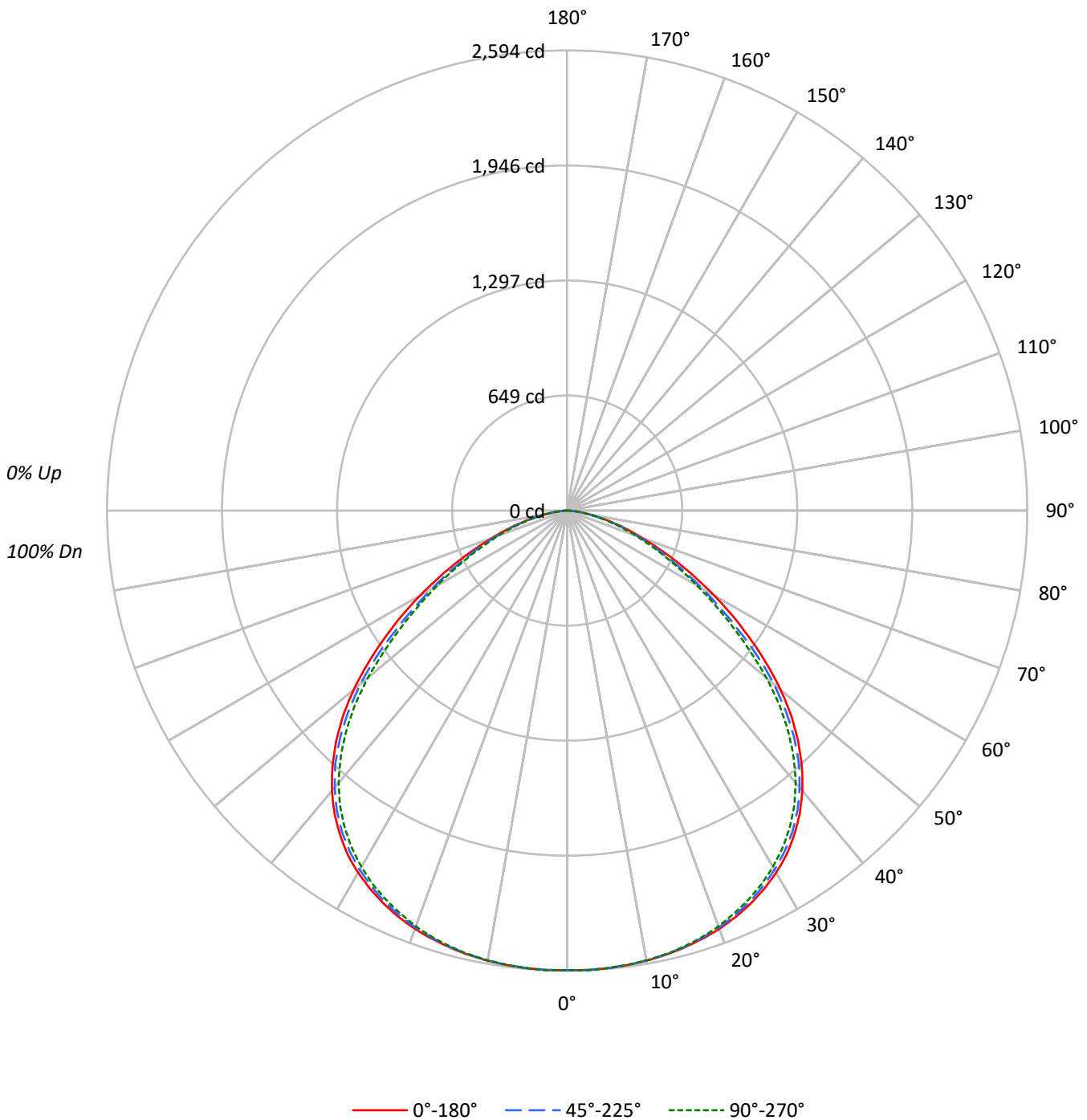
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6894.0 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.32 / 1.41
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 (A_{in}): 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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	70	59	51	45	57	50	44	55	49	44	54	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3486	3486	3486
5°	3497	3497	3497
10°	3521	3517	3518
15°	3552	3548	3545
20°	3593	3581	3571
25°	3630	3612	3592
30°	3661	3632	3604
35°	3666	3634	3589
40°	3623	3581	3521
45°	3506	3442	3353
50°	3287	3185	3069
55°	2954	2779	2664
60°	2572	2367	2277
65°	2164	2003	1915
70°	1764	1675	1607
75°	1413	1364	1306
80°	1086	1000	974
85°	678	658	658



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.7	3.6
10°-20°	720.0	10.4
20°-30°	1121.7	16.3
30°-40°	1379.8	20.0
40°-50°	1386.0	20.1
50°-60°	1068.2	15.5
60°-70°	634.2	9.2
70°-80°	282.3	4.1
80°-90°	55.1	0.8
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°	2088.3	30.3
0°-40°	3468.1	50.3
0°-60°	5922.3	85.9
0°-90°	6894.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6894.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2591	2591	2591	2591	2591	
5°	2590	2590	2590	2587	2590	247
15°	2550	2550	2547	2543	2545	721
25°	2445	2445	2433	2422	2419	1128
35°	2232	2228	2212	2194	2185	1394
45°	1842	1838	1809	1778	1762	1414
55°	1259	1235	1184	1149	1136	1126
65°	680	650	629	605	602	679
75°	272	266	262	253	251	294
85°	44	42	43	40	43	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2590.9	2590.9	2590.9	2590.9	2590.9
2.5°	2592.2	2591.5	2591.5	2588.8	2594.3
5°	2589.5	2590.2	2589.5	2586.7	2589.5
7.5°	2584.0	2584.7	2583.3	2580.6	2583.3
10°	2577.1	2577.1	2574.4	2573.0	2575.1
12.5°	2565.4	2565.4	2562.7	2560.6	2562.7
15°	2550.3	2550.3	2546.9	2542.8	2544.8
17.5°	2531.8	2531.8	2526.3	2520.8	2522.2
20°	2509.1	2508.5	2500.9	2493.3	2494.0
22.5°	2480.3	2479.6	2470.0	2461.1	2458.3
25°	2445.3	2444.6	2432.9	2421.9	2419.2
27.5°	2404.8	2402.0	2389.0	2376.6	2373.9
30°	2356.7	2354.6	2337.5	2325.1	2319.6
32.5°	2301.1	2295.6	2279.8	2264.7	2257.1
35°	2231.7	2228.3	2212.5	2194.0	2185.0
37.5°	2153.4	2150.0	2132.8	2112.2	2101.9
40°	2062.8	2060.0	2038.8	2017.5	2004.4
42.5°	1958.4	1956.4	1933.7	1904.2	1890.4
45°	1842.4	1837.6	1808.7	1778.5	1762.0
47.5°	1713.3	1705.0	1670.0	1641.2	1623.3
50°	1570.4	1559.5	1521.7	1484.6	1466.1
52.5°	1415.9	1396.7	1357.6	1315.0	1297.1
55°	1259.4	1235.3	1184.5	1148.8	1135.8
57.5°	1106.2	1071.2	1023.2	997.7	984.7
60°	955.9	917.4	879.6	854.9	846.0
62.5°	812.3	780.1	747.8	723.1	717.6
65°	679.8	650.3	629.0	605.0	601.5
67.5°	556.2	542.5	523.3	502.7	499.9
70°	448.4	442.9	425.7	413.4	408.6
72.5°	357.8	352.3	339.9	331.0	329.6
75°	271.9	266.4	262.3	253.4	251.3
77.5°	193.6	194.3	190.9	186.1	187.5
80°	140.1	131.8	129.1	126.3	125.7
82.5°	85.8	81.0	79.0	78.3	79.7
85°	43.9	41.9	42.6	40.5	42.6
87.5°	15.1	15.1	15.8	15.1	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)