

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: P413247

Luminaire Tested: **24PD-70-PC3-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413247
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-46)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-70-PC3-L850
Description: 7000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

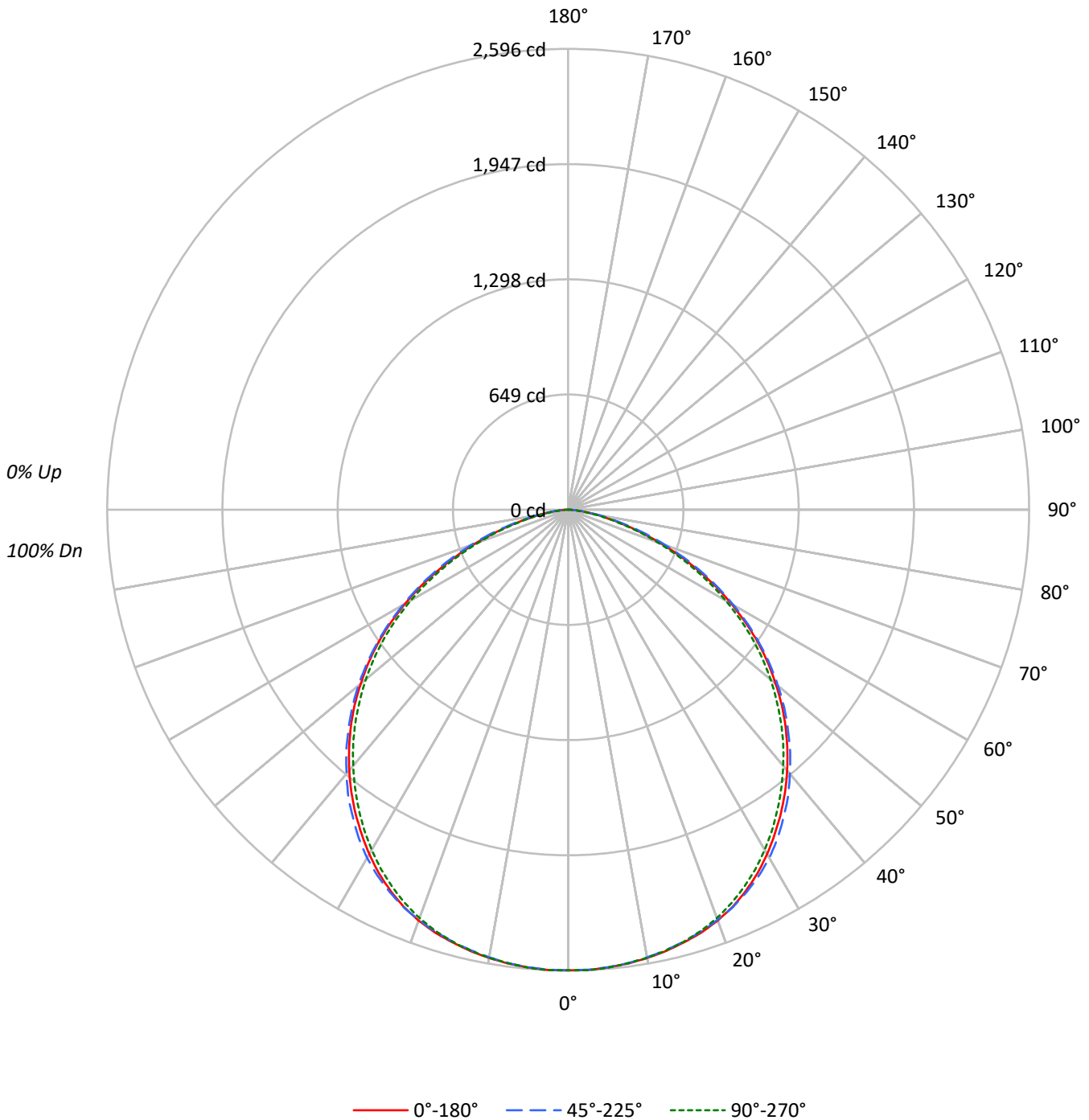
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7093.0 lumens
Efficiency: N/A
Efficacy: 135.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 52.3
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	99	96	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	47	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3492	3492	3492
5°	3496	3494	3497
10°	3503	3498	3501
15°	3515	3508	3509
20°	3526	3521	3506
25°	3516	3529	3480
30°	3481	3518	3438
35°	3430	3474	3378
40°	3370	3410	3309
45°	3294	3329	3225
50°	3191	3228	3113
55°	3061	3088	2970
60°	2857	2890	2759
65°	2575	2639	2474
70°	2186	2282	2098
75°	1693	1816	1614
80°	1259	1314	1142
85°	777	832	721



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.2	3.5
10°-20°	711.6	10.0
20°-30°	1089.8	15.4
30°-40°	1311.1	18.5
40°-50°	1336.9	18.8
50°-60°	1159.0	16.3
60°-70°	803.5	11.3
70°-80°	367.0	5.2
80°-90°	67.8	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°	2047.6	28.9
0°-40°	3358.7	47.4
0°-60°	5854.7	82.5
0°-90°	7093.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7093.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2595	2595	2595	2595	2595	
5°	2588	2588	2587	2586	2589	246
15°	2523	2522	2518	2516	2519	713
25°	2368	2375	2377	2356	2344	1091
35°	2088	2110	2115	2088	2057	1306
45°	1731	1752	1750	1726	1695	1334
55°	1305	1313	1316	1284	1266	1162
65°	809	826	829	801	777	799
75°	326	344	349	338	310	356
85°	50	52	54	51	47	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2595.0	2595.0	2595.0	2595.0	2595.0
2.5°	2595.0	2595.0	2593.5	2592.1	2596.4
5°	2588.5	2588.5	2587.1	2585.6	2589.2
7.5°	2578.4	2577.7	2576.3	2574.9	2577.0
10°	2564.1	2563.4	2560.5	2559.8	2562.6
12.5°	2546.1	2545.4	2541.1	2541.1	2543.2
15°	2523.1	2522.4	2518.1	2515.9	2518.8
17.5°	2497.2	2496.5	2491.5	2485.7	2487.2
20°	2462.7	2462.7	2459.1	2450.5	2448.3
22.5°	2421.0	2423.2	2423.2	2406.6	2400.2
25°	2368.5	2375.0	2377.2	2356.3	2344.1
27.5°	2308.9	2319.0	2324.7	2298.1	2282.3
30°	2240.6	2257.1	2264.3	2235.6	2212.6
32.5°	2165.8	2186.7	2195.3	2167.3	2137.8
35°	2088.2	2110.5	2114.8	2087.5	2056.6
37.5°	2005.5	2028.5	2034.3	2009.9	1971.8
40°	1918.6	1941.6	1941.6	1921.4	1884.1
42.5°	1826.6	1851.0	1850.3	1825.8	1792.0
45°	1730.9	1752.5	1749.6	1725.9	1695.0
47.5°	1632.5	1646.1	1649.7	1621.7	1592.2
50°	1524.6	1538.3	1541.9	1510.3	1487.3
52.5°	1418.3	1426.9	1431.9	1395.3	1378.7
55°	1304.7	1312.6	1316.2	1283.8	1265.9
57.5°	1184.6	1194.7	1199.0	1166.7	1146.5
60°	1061.7	1072.5	1073.9	1043.7	1025.1
62.5°	936.6	951.0	953.9	923.7	901.4
65°	808.7	825.9	828.8	800.8	777.1
67.5°	680.7	703.7	704.5	681.5	653.4
70°	555.7	580.8	580.1	560.7	533.4
72.5°	436.3	459.3	464.4	446.4	419.8
75°	325.6	343.6	349.4	337.9	310.5
77.5°	231.5	248.0	253.0	242.2	222.1
80°	162.5	163.2	169.6	161.0	147.4
82.5°	100.6	99.2	101.4	97.8	89.9
85°	50.3	51.8	53.9	51.0	46.7
87.5°	17.3	18.0	19.4	19.4	17.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)