

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: P413276

Luminaire Tested: **24PD-85-PC3-L930**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413276
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-85-PC3-L930
Description: 8500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

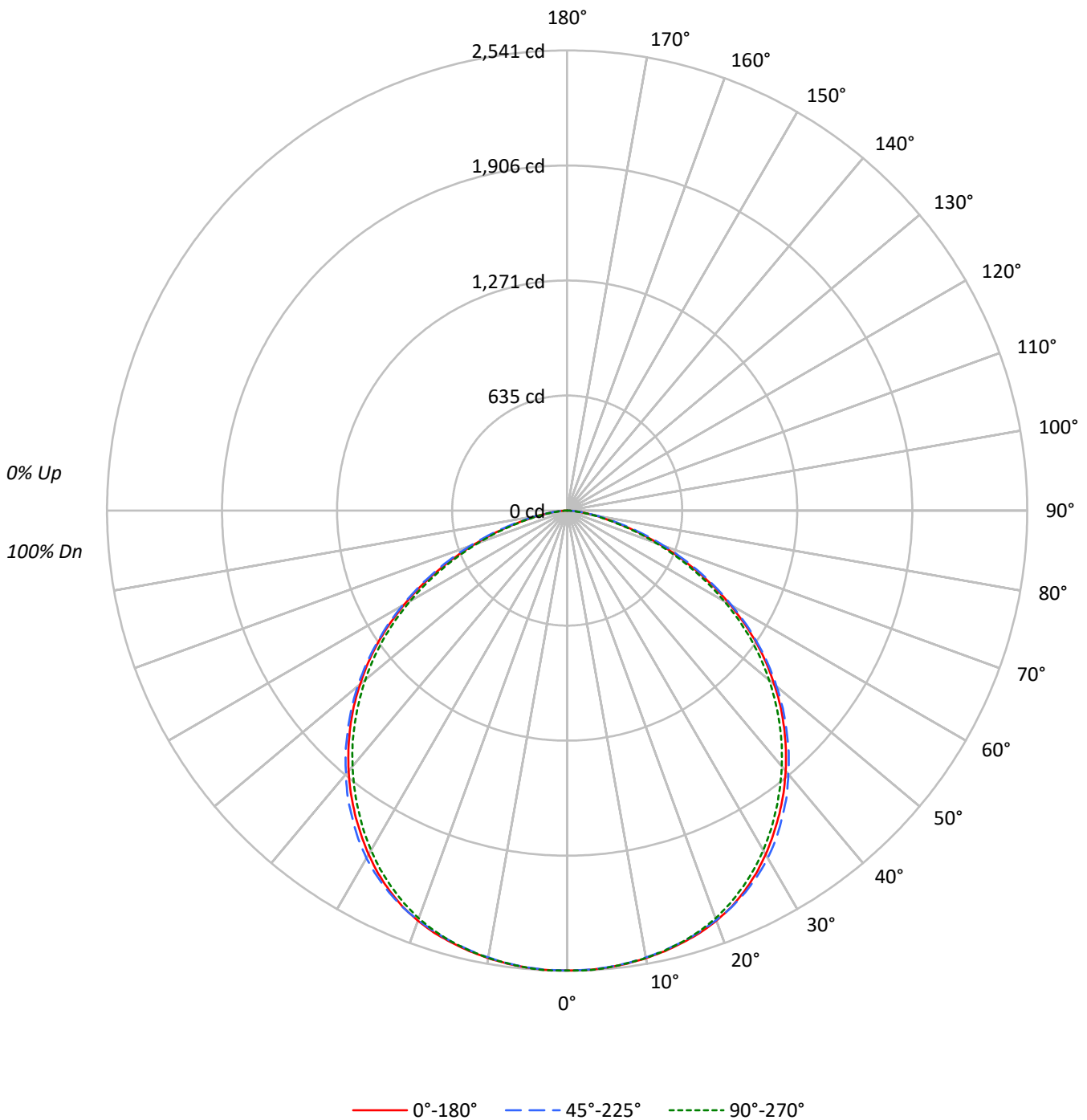
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6942.0 lumens
Efficiency: N/A
Efficacy: 107.6 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): 64.5
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	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°	3417	3417	3417
5°	3422	3420	3423
10°	3429	3424	3427
15°	3440	3433	3434
20°	3451	3446	3431
25°	3441	3454	3406
30°	3407	3443	3364
35°	3357	3400	3306
40°	3298	3338	3239
45°	3224	3258	3157
50°	3123	3159	3047
55°	2995	3022	2906
60°	2796	2828	2700
65°	2520	2583	2421
70°	2139	2233	2054
75°	1657	1777	1580
80°	1232	1286	1117
85°	760	815	706



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.9	3.5
10°-20°	696.5	10.0
20°-30°	1066.6	15.4
30°-40°	1283.2	18.5
40°-50°	1308.5	18.8
50°-60°	1134.4	16.3
60°-70°	786.4	11.3
70°-80°	359.2	5.2
80°-90°	66.3	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°	2004.1	28.9
0°-40°	3287.2	47.4
0°-60°	5730.0	82.5
0°-90°	6942.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6942.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2540	2540	2540	2540	2540	
5°	2533	2533	2532	2531	2534	241
15°	2469	2469	2464	2462	2465	698
25°	2318	2324	2327	2306	2294	1067
35°	2044	2066	2070	2043	2013	1278
45°	1694	1715	1712	1689	1659	1306
55°	1277	1285	1288	1256	1239	1138
65°	792	808	811	784	760	782
75°	319	336	342	331	304	349
85°	49	51	53	50	46	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2539.7	2539.7	2539.7	2539.7	2539.7
2.5°	2539.7	2539.7	2538.3	2536.9	2541.1
5°	2533.4	2533.4	2532.0	2530.6	2534.1
7.5°	2523.6	2522.9	2521.4	2520.0	2522.1
10°	2509.5	2508.8	2506.0	2505.3	2508.1
12.5°	2491.9	2491.2	2487.0	2487.0	2489.1
15°	2469.4	2468.7	2464.5	2462.3	2465.2
17.5°	2444.1	2443.4	2438.4	2432.8	2434.2
20°	2410.3	2410.3	2406.8	2398.3	2396.2
22.5°	2369.5	2371.6	2371.6	2355.4	2349.1
25°	2318.1	2324.5	2326.6	2306.2	2294.2
27.5°	2259.7	2269.6	2275.2	2249.2	2233.7
30°	2192.9	2209.1	2216.1	2188.0	2165.5
32.5°	2119.7	2140.1	2148.6	2121.1	2092.3
35°	2043.8	2065.6	2069.8	2043.0	2012.8
37.5°	1962.8	1985.4	1991.0	1967.1	1929.8
40°	1877.7	1900.2	1900.2	1880.5	1843.9
42.5°	1787.7	1811.6	1810.9	1787.0	1753.9
45°	1694.1	1715.2	1712.4	1689.2	1658.9
47.5°	1597.7	1611.1	1614.6	1587.2	1558.3
50°	1492.2	1505.6	1509.1	1478.1	1455.6
52.5°	1388.1	1396.5	1401.4	1365.5	1349.4
55°	1276.9	1284.6	1288.2	1256.5	1238.9
57.5°	1159.4	1169.3	1173.5	1141.8	1122.1
60°	1039.1	1049.7	1051.1	1021.5	1003.2
62.5°	916.7	930.8	933.6	904.0	882.2
65°	791.5	808.4	811.2	783.7	760.5
67.5°	666.2	688.8	689.5	666.9	639.5
70°	543.8	568.5	567.7	548.8	522.0
72.5°	427.0	449.6	454.5	436.9	410.9
75°	318.7	336.3	341.9	330.7	303.9
77.5°	226.5	242.7	247.6	237.1	217.4
80°	159.0	159.7	166.0	157.6	144.2
82.5°	98.5	97.1	99.2	95.7	87.9
85°	49.2	50.7	52.8	50.0	45.7
87.5°	16.9	17.6	19.0	19.0	16.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)