

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: P413163

Luminaire Tested: **24PD-10-PC3-L830**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413163
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-10-PC3-L830
Description: 10000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

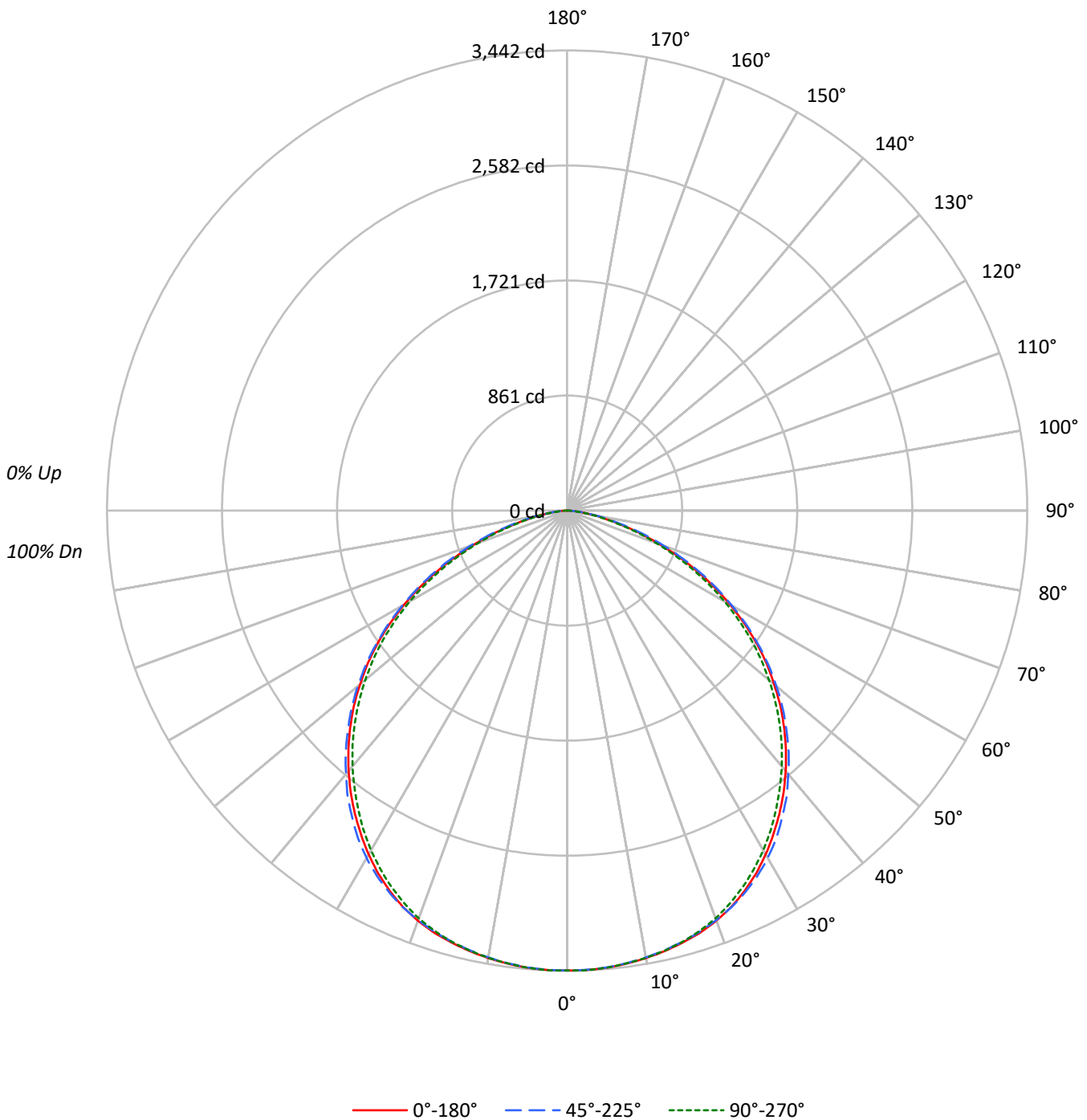
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9402.0 lumens
Efficiency: N/A
Efficacy: 121.5 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): 77.4
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°	4628	4628	4628
5°	4634	4632	4635
10°	4644	4637	4641
15°	4659	4649	4651
20°	4674	4667	4647
25°	4661	4678	4613
30°	4614	4663	4557
35°	4547	4604	4478
40°	4467	4520	4386
45°	4366	4413	4275
50°	4230	4278	4127
55°	4057	4092	3936
60°	3787	3831	3656
65°	3413	3498	3279
70°	2897	3025	2781
75°	2244	2407	2140
80°	1668	1743	1513
85°	1030	1104	956



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.3	3.5
10°-20°	943.3	10.0
20°-30°	1444.6	15.4
30°-40°	1737.9	18.5
40°-50°	1772.1	18.8
50°-60°	1536.3	16.3
60°-70°	1065.1	11.3
70°-80°	486.5	5.2
80°-90°	89.8	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°	2714.2	28.9
0°-40°	4452.1	47.4
0°-60°	7760.5	82.5
0°-90°	9402.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9402.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3440	3440	3440	3440	3440	
5°	3431	3431	3429	3427	3432	326
15°	3344	3344	3338	3335	3339	945
25°	3140	3148	3151	3123	3107	1446
35°	2768	2798	2803	2767	2726	1731
45°	2294	2323	2319	2288	2247	1768
55°	1729	1740	1745	1702	1678	1541
65°	1072	1095	1099	1062	1030	1060
75°	432	456	463	448	412	472
85°	67	69	72	68	62	90
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3439.7	3439.7	3439.7	3439.7	3439.7
2.5°	3439.7	3439.7	3437.8	3435.9	3441.6
5°	3431.2	3431.2	3429.3	3427.3	3432.1
7.5°	3417.8	3416.9	3415.0	3413.1	3415.9
10°	3398.8	3397.8	3394.0	3393.0	3396.9
12.5°	3374.9	3374.0	3368.3	3368.3	3371.1
15°	3344.4	3343.5	3337.8	3334.9	3338.7
17.5°	3310.1	3309.2	3302.5	3294.9	3296.8
20°	3264.4	3264.4	3259.6	3248.2	3245.4
22.5°	3209.1	3212.0	3212.0	3190.1	3181.5
25°	3139.6	3148.2	3151.0	3123.4	3107.2
27.5°	3060.5	3073.8	3081.5	3046.2	3025.2
30°	2970.0	2991.9	3001.4	2963.3	2932.8
32.5°	2870.9	2898.5	2910.0	2872.8	2833.7
35°	2768.0	2797.5	2803.2	2767.0	2726.1
37.5°	2658.4	2688.9	2696.5	2664.1	2613.6
40°	2543.1	2573.6	2573.6	2546.9	2497.4
42.5°	2421.2	2453.5	2452.6	2420.2	2375.4
45°	2294.4	2323.0	2319.2	2287.8	2246.8
47.5°	2163.9	2182.0	2186.8	2149.6	2110.5
50°	2021.0	2039.1	2043.8	2001.9	1971.4
52.5°	1879.9	1891.4	1898.0	1849.5	1827.5
55°	1729.4	1739.9	1744.6	1701.8	1677.9
57.5°	1570.3	1583.6	1589.3	1546.5	1519.8
60°	1407.3	1421.6	1423.5	1383.5	1358.7
62.5°	1241.5	1260.6	1264.4	1224.4	1194.9
65°	1071.9	1094.8	1098.6	1061.5	1030.0
67.5°	902.3	932.8	933.8	903.3	866.1
70°	736.5	769.9	768.9	743.2	707.0
72.5°	578.4	608.9	615.5	591.7	556.5
75°	431.6	455.5	463.1	447.8	411.6
77.5°	306.8	328.7	335.4	321.1	294.4
80°	215.3	216.3	224.9	213.4	195.3
82.5°	133.4	131.5	134.3	129.6	119.1
85°	66.7	68.6	71.5	67.7	61.9
87.5°	22.9	23.8	25.7	25.7	22.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)