

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: P413168

Luminaire Tested: **24PD-10-PC3-L930**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413168
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-L930
Description: 10000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

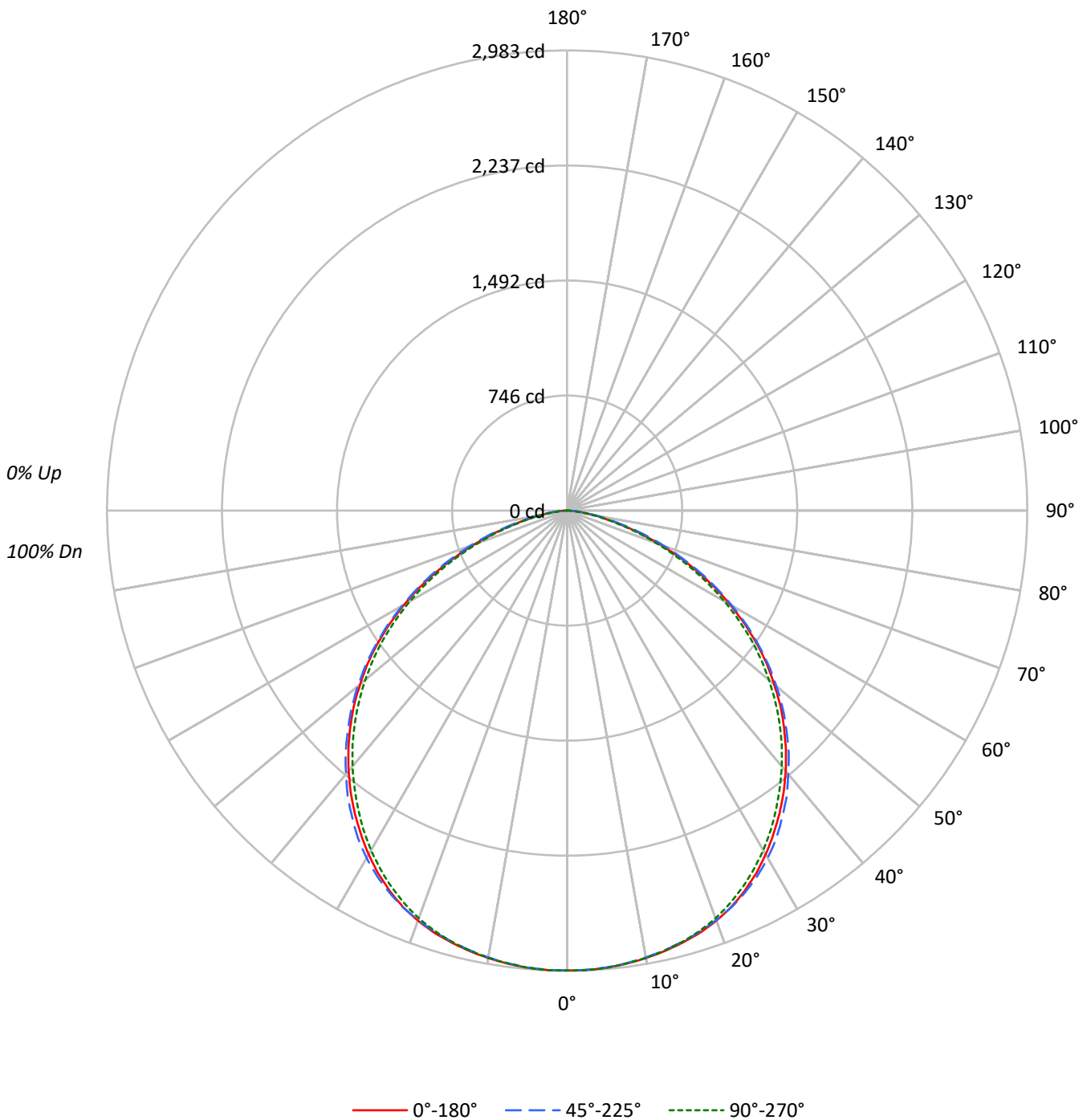
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8148.0 lumens
Efficiency: N/A
Efficacy: 105.3 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°	4011	4011	4011
5°	4016	4014	4017
10°	4024	4019	4022
15°	4037	4029	4030
20°	4051	4045	4027
25°	4039	4054	3998
30°	3999	4041	3949
35°	3940	3990	3880
40°	3871	3917	3801
45°	3784	3824	3705
50°	3666	3707	3576
55°	3516	3547	3411
60°	3282	3320	3169
65°	2958	3031	2842
70°	2511	2622	2410
75°	1945	2086	1854
80°	1446	1510	1312
85°	892	956	829



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.8	3.5
10°-20°	817.5	10.0
20°-30°	1251.9	15.4
30°-40°	1506.1	18.5
40°-50°	1535.8	18.8
50°-60°	1331.4	16.3
60°-70°	923.1	11.3
70°-80°	421.6	5.2
80°-90°	77.9	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°	2352.2	28.9
0°-40°	3858.3	47.4
0°-60°	6725.5	82.5
0°-90°	8148.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8148.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2981	2981	2981	2981	2981	
5°	2974	2974	2972	2970	2974	283
15°	2898	2898	2893	2890	2893	819
25°	2721	2728	2731	2707	2693	1253
35°	2399	2424	2429	2398	2362	1500
45°	1988	2013	2010	1983	1947	1532
55°	1499	1508	1512	1475	1454	1335
65°	929	949	952	920	893	918
75°	374	395	401	388	357	409
85°	58	60	62	59	54	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2981.0	2981.0	2981.0	2981.0	2981.0
2.5°	2981.0	2981.0	2979.3	2977.7	2982.6
5°	2973.5	2973.5	2971.9	2970.2	2974.3
7.5°	2962.0	2961.1	2959.5	2957.8	2960.3
10°	2945.4	2944.6	2941.3	2940.5	2943.8
12.5°	2924.8	2924.0	2919.0	2919.0	2921.5
15°	2898.4	2897.6	2892.6	2890.1	2893.4
17.5°	2868.7	2867.8	2862.0	2855.4	2857.1
20°	2829.0	2829.0	2824.9	2815.0	2812.5
22.5°	2781.1	2783.6	2783.6	2764.6	2757.2
25°	2720.8	2728.3	2730.8	2706.8	2692.8
27.5°	2652.3	2663.9	2670.5	2639.9	2621.8
30°	2573.9	2592.9	2601.1	2568.1	2541.7
32.5°	2488.0	2511.9	2521.8	2489.6	2455.8
35°	2398.8	2424.4	2429.4	2398.0	2362.5
37.5°	2303.8	2330.3	2336.9	2308.8	2265.0
40°	2203.9	2230.3	2230.3	2207.2	2164.3
42.5°	2098.2	2126.3	2125.5	2097.4	2058.6
45°	1988.4	2013.2	2009.9	1982.6	1947.1
47.5°	1875.3	1891.0	1895.1	1862.9	1829.0
50°	1751.4	1767.1	1771.2	1734.9	1708.5
52.5°	1629.2	1639.1	1644.9	1602.8	1583.8
55°	1498.7	1507.8	1511.9	1474.8	1454.1
57.5°	1360.8	1372.4	1377.3	1340.2	1317.1
60°	1219.6	1232.0	1233.7	1199.0	1177.5
62.5°	1076.0	1092.5	1095.8	1061.1	1035.5
65°	929.0	948.8	952.1	919.9	892.6
67.5°	782.0	808.4	809.2	782.8	750.6
70°	638.3	667.2	666.4	644.1	612.7
72.5°	501.2	527.7	533.4	512.8	482.2
75°	374.1	394.7	401.3	388.1	356.7
77.5°	265.9	284.9	290.7	278.3	255.2
80°	186.6	187.4	194.9	185.0	169.3
82.5°	115.6	114.0	116.4	112.3	103.2
85°	57.8	59.5	61.9	58.6	53.7
87.5°	19.8	20.6	22.3	22.3	19.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)