

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: P413256

Luminaire Tested: **24PD-75-PC3-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413256
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-75-PC3-L850
Description: 7500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

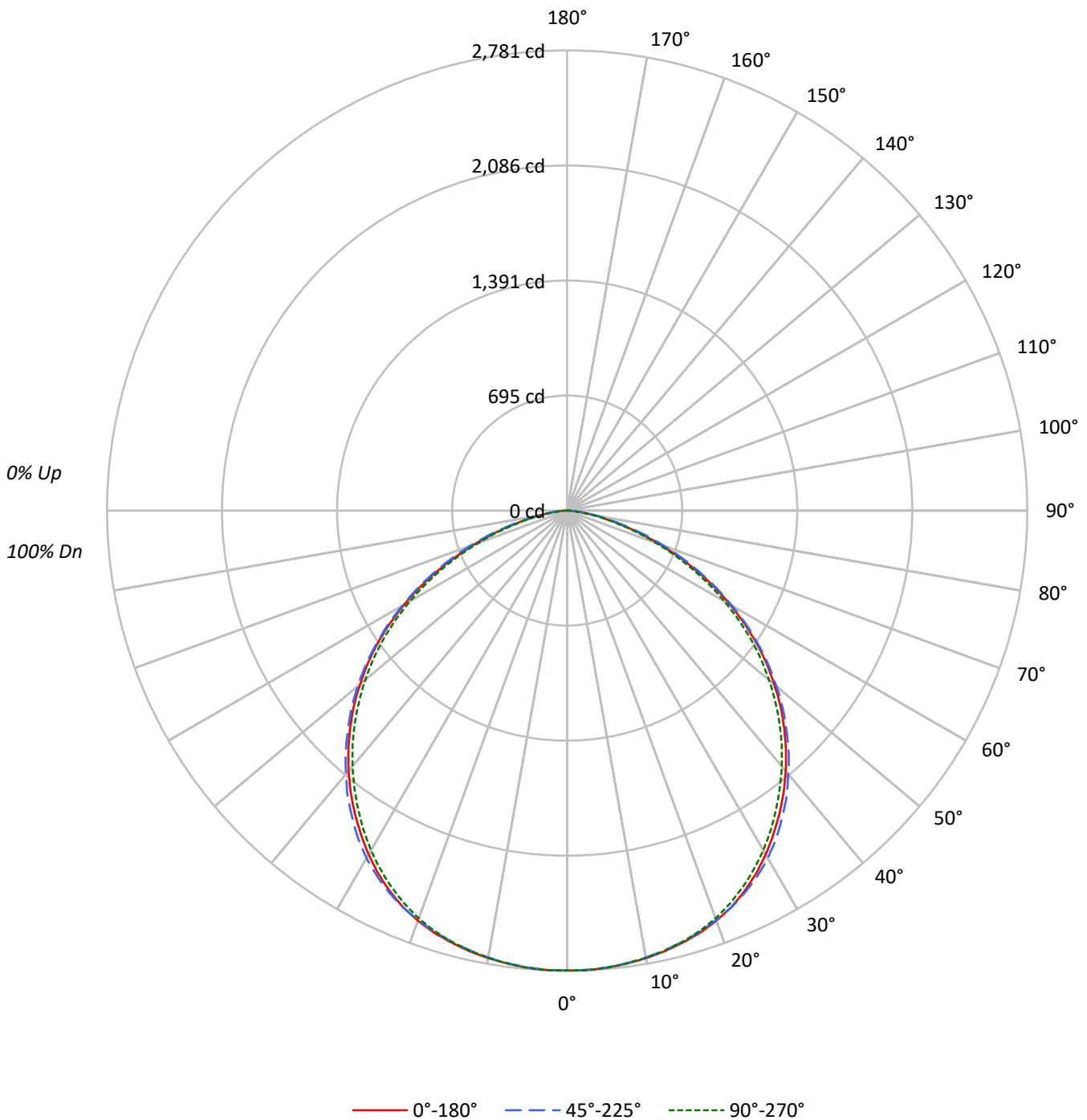
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7597.0 lumens
Efficiency: N/A
Efficacy: 134.9 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): 56.3
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°	3740	3740	3740
5°	3744	3742	3746
10°	3752	3747	3750
15°	3764	3757	3758
20°	3777	3771	3755
25°	3766	3780	3727
30°	3728	3768	3682
35°	3674	3721	3618
40°	3609	3652	3544
45°	3528	3566	3454
50°	3418	3457	3334
55°	3278	3307	3180
60°	3060	3095	2954
65°	2757	2826	2650
70°	2341	2444	2247
75°	1813	1945	1729
80°	1348	1408	1223
85°	832	891	772



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.7	3.5
10°-20°	762.2	10.0
20°-30°	1167.3	15.4
30°-40°	1404.2	18.5
40°-50°	1431.9	18.8
50°-60°	1241.4	16.3
60°-70°	860.6	11.3
70°-80°	393.1	5.2
80°-90°	72.6	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°	2193.1	28.9
0°-40°	3597.4	47.4
0°-60°	6270.7	82.5
0°-90°	7597.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7597.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2779	2779	2779	2779	2779	
5°	2772	2772	2771	2769	2773	264
15°	2702	2702	2697	2695	2698	764
25°	2537	2544	2546	2524	2511	1168
35°	2237	2260	2265	2236	2203	1399
45°	1854	1877	1874	1849	1815	1429
55°	1397	1406	1410	1375	1356	1245
65°	866	885	888	858	832	856
75°	349	368	374	362	333	381
85°	54	55	58	55	50	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2779.4	2779.4	2779.4	2779.4	2779.4
2.5°	2779.4	2779.4	2777.8	2776.3	2780.9
5°	2772.4	2772.4	2770.9	2769.4	2773.2
7.5°	2761.7	2760.9	2759.4	2757.8	2760.1
10°	2746.3	2745.5	2742.4	2741.6	2744.7
12.5°	2727.0	2726.2	2721.6	2721.6	2723.9
15°	2702.4	2701.6	2697.0	2694.7	2697.8
17.5°	2674.7	2673.9	2668.5	2662.3	2663.9
20°	2637.7	2637.7	2633.9	2624.6	2622.3
22.5°	2593.1	2595.4	2595.4	2577.7	2570.7
25°	2536.8	2543.8	2546.1	2523.8	2510.7
27.5°	2472.9	2483.7	2489.9	2461.4	2444.5
30°	2399.8	2417.5	2425.2	2394.4	2369.8
32.5°	2319.7	2342.1	2351.3	2321.3	2289.7
35°	2236.6	2260.5	2265.1	2235.8	2202.7
37.5°	2148.0	2172.7	2178.8	2152.7	2111.9
40°	2054.9	2079.5	2079.5	2058.0	2017.9
42.5°	1956.3	1982.5	1981.7	1955.6	1919.4
45°	1853.9	1877.0	1874.0	1848.6	1815.4
47.5°	1748.5	1763.1	1766.9	1736.9	1705.3
50°	1633.0	1647.6	1651.5	1617.6	1592.9
52.5°	1519.0	1528.3	1533.7	1494.4	1476.7
55°	1397.4	1405.9	1409.7	1375.1	1355.8
57.5°	1268.8	1279.6	1284.2	1249.6	1228.0
60°	1137.2	1148.7	1150.2	1117.9	1097.9
62.5°	1003.2	1018.6	1021.7	989.3	965.5
65°	866.1	884.6	887.7	857.7	832.3
67.5°	729.1	753.7	754.5	729.9	699.8
70°	595.1	622.1	621.3	600.5	571.3
72.5°	467.3	492.0	497.4	478.1	449.6
75°	348.8	368.0	374.2	361.9	332.6
77.5°	247.9	265.6	271.0	259.5	237.9
80°	174.0	174.8	181.7	172.5	157.8
82.5°	107.8	106.2	108.6	104.7	96.2
85°	53.9	55.4	57.7	54.7	50.0
87.5°	18.5	19.2	20.8	20.8	18.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)