

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: P412475

Luminaire Tested: **22PD-85-PB1-L930**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412475
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22PD-85-PB1-L930
Description: 8500 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

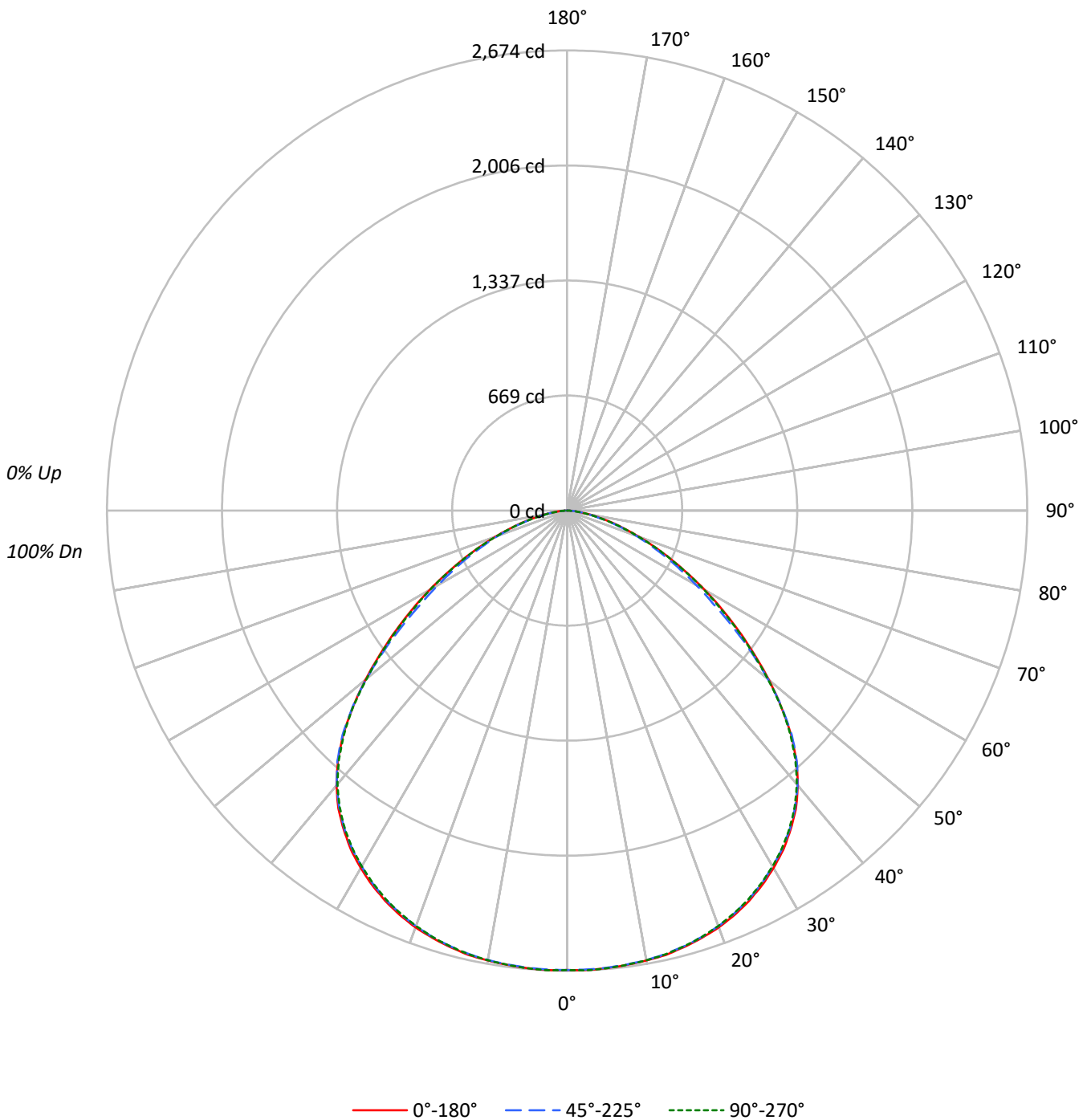
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7010.0 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.32 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 77.3
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	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					100			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88					86				
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	76					73				
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65					63				
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	66	61	56					54				
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49					47				
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44					42				
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39					37				
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35					33				
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32					30				
10	55	42	34	29	54	41	34	29	41	34	29	40	33	29	39	33	29					27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7185	7185	7185
5°	7208	7202	7210
10°	7255	7246	7251
15°	7314	7303	7303
20°	7381	7360	7355
25°	7428	7406	7399
30°	7453	7422	7417
35°	7437	7415	7402
40°	7326	7318	7294
45°	7003	7026	6972
50°	6412	6377	6370
55°	5698	5497	5659
60°	4968	4666	4937
65°	4211	3985	4190
70°	3482	3339	3449
75°	2816	2636	2704
80°	2035	1970	1957
85°	1325	1325	1275



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.1	3.6
10°-20°	741.0	10.6
20°-30°	1149.8	16.4
30°-40°	1410.0	20.1
40°-50°	1409.4	20.1
50°-60°	1067.6	15.2
60°-70°	640.3	9.1
70°-80°	281.9	4.0
80°-90°	55.9	0.8
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°	2144.8	30.6
0°-40°	3554.8	50.7
0°-60°	6031.8	86.0
0°-90°	7010.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7010.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2670	2670	2670	2670	2670	
5°	2668	2665	2666	2665	2669	254
15°	2626	2623	2621	2620	2621	742
25°	2502	2497	2494	2490	2492	1153
35°	2264	2263	2257	2256	2253	1414
45°	1840	1843	1846	1841	1832	1409
55°	1214	1188	1172	1187	1206	1089
65°	661	638	626	637	658	661
75°	271	265	254	258	260	289
85°	43	45	43	41	41	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2670.1	2670.1	2670.1	2670.1	2670.1
2.5°	2672.6	2668.5	2669.3	2669.3	2674.2
5°	2668.5	2665.1	2666.0	2665.1	2669.3
7.5°	2662.7	2659.4	2660.2	2659.4	2661.8
10°	2655.2	2651.9	2651.9	2650.3	2653.6
12.5°	2645.3	2641.2	2639.6	2638.7	2641.2
15°	2625.5	2623.0	2621.4	2619.7	2621.4
17.5°	2604.1	2599.9	2598.3	2595.0	2598.3
20°	2577.6	2571.9	2570.2	2567.7	2568.5
22.5°	2543.0	2538.0	2535.5	2531.4	2533.0
25°	2501.7	2496.7	2494.2	2490.1	2491.8
27.5°	2453.8	2450.5	2444.7	2441.4	2442.2
30°	2398.5	2395.2	2388.6	2386.9	2386.9
32.5°	2337.4	2333.2	2327.5	2325.8	2325.0
35°	2263.9	2263.1	2257.3	2255.6	2253.2
37.5°	2183.8	2182.2	2175.5	2173.9	2171.4
40°	2085.6	2083.9	2083.1	2079.8	2076.5
42.5°	1971.6	1974.1	1975.7	1969.1	1962.5
45°	1840.3	1842.8	1846.1	1841.2	1832.1
47.5°	1686.8	1696.7	1691.7	1695.0	1685.9
50°	1531.6	1531.6	1523.3	1526.6	1521.6
52.5°	1368.9	1355.7	1345.8	1352.4	1359.0
55°	1214.5	1188.1	1171.6	1187.3	1206.3
57.5°	1066.7	1035.3	1004.8	1029.6	1052.7
60°	923.1	886.7	866.9	885.1	917.3
62.5°	786.8	760.4	740.6	754.6	781.9
65°	661.3	638.2	625.8	636.6	658.0
67.5°	546.6	530.9	518.5	527.6	544.1
70°	442.5	438.4	424.4	428.5	438.4
72.5°	347.6	346.8	334.4	337.7	343.5
75°	270.8	265.0	253.5	257.6	260.1
77.5°	191.5	194.0	183.3	185.8	185.8
80°	131.3	135.4	127.1	125.5	126.3
82.5°	83.4	83.4	82.6	81.7	79.3
85°	42.9	44.6	42.9	41.3	41.3
87.5°	16.5	16.5	16.5	15.7	14.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)