

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: P412478

Luminaire Tested: **22PD-85-PB1-L950**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412478
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-L950
Description: 8500 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

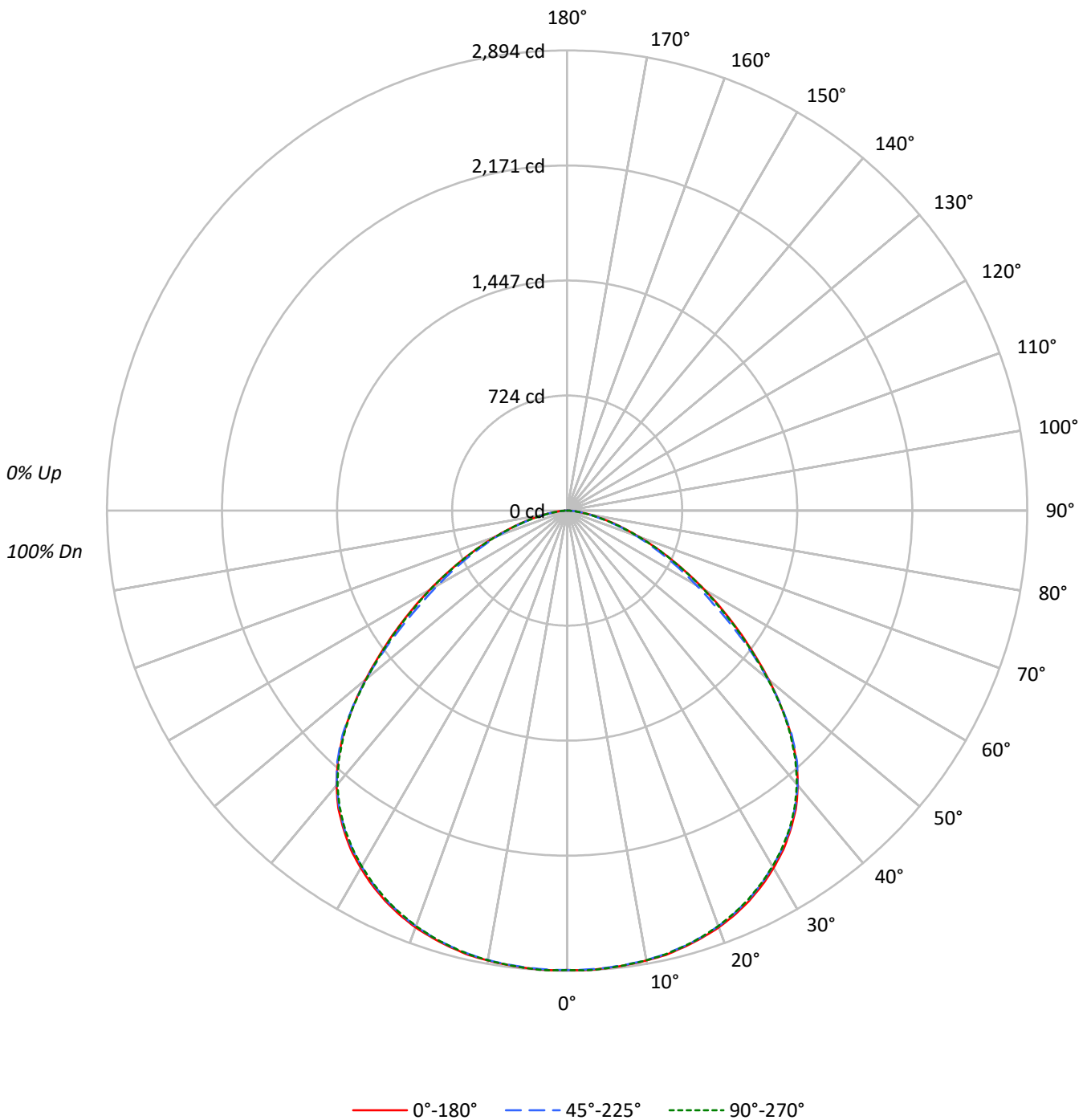
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7587.0 lumens
Efficiency: N/A
Efficacy: 98.2 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 (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

TEST NUMBER: P412478
CATALOG NUMBER: 22PD-85-PB1-L950

Luminous Intensity Polar Plot





TEST NUMBER: P412478

CATALOG NUMBER: 22PD-85-PB1-L950

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	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°	7777	7777	7777
5°	7802	7794	7804
10°	7853	7843	7848
15°	7916	7904	7904
20°	7989	7966	7961
25°	8039	8015	8008
30°	8066	8033	8027
35°	8049	8026	8011
40°	7929	7920	7895
45°	7580	7604	7546
50°	6939	6902	6895
55°	6167	5949	6125
60°	5377	5050	5343
65°	4558	4313	4535
70°	3769	3614	3733
75°	3047	2852	2927
80°	2202	2132	2118
85°	1436	1436	1380



TEST NUMBER: P412478

CATALOG NUMBER: 22PD-85-PB1-L950

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.0	3.6
10°-20°	802.0	10.6
20°-30°	1244.4	16.4
30°-40°	1526.0	20.1
40°-50°	1525.4	20.1
50°-60°	1155.5	15.2
60°-70°	693.0	9.1
70°-80°	305.1	4.0
80°-90°	60.6	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°	2321.3	30.6
0°-40°	3847.4	50.7
0°-60°	6528.3	86.0
0°-90°	7587.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7587.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2890	2890	2890	2890	2890	
5°	2888	2884	2885	2884	2889	275
15°	2842	2839	2837	2835	2837	803
25°	2708	2702	2700	2695	2697	1248
35°	2450	2449	2443	2441	2439	1530
45°	1992	1994	1998	1993	1983	1525
55°	1314	1286	1268	1285	1306	1178
65°	716	691	677	689	712	716
75°	293	287	274	279	282	313
85°	46	48	46	45	45	61
90°	0	0	0	0	0	



TEST NUMBER: P412478

CATALOG NUMBER: 22PD-85-PB1-L950

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2889.9	2889.9	2889.9	2889.9	2889.9
2.5°	2892.6	2888.1	2889.0	2889.0	2894.3
5°	2888.1	2884.5	2885.4	2884.5	2889.0
7.5°	2881.8	2878.3	2879.2	2878.3	2880.9
10°	2873.8	2870.2	2870.2	2868.4	2872.0
12.5°	2863.1	2858.6	2856.8	2855.9	2858.6
15°	2841.6	2838.9	2837.2	2835.4	2837.2
17.5°	2818.4	2813.9	2812.1	2808.6	2812.1
20°	2789.8	2783.5	2781.8	2779.1	2780.0
22.5°	2752.3	2746.9	2744.2	2739.8	2741.5
25°	2707.6	2702.2	2699.5	2695.1	2696.9
27.5°	2655.8	2652.2	2645.9	2642.4	2643.2
30°	2595.9	2592.3	2585.2	2583.4	2583.4
32.5°	2529.8	2525.3	2519.0	2517.3	2516.4
35°	2450.2	2449.3	2443.1	2441.3	2438.6
37.5°	2363.6	2361.8	2354.6	2352.8	2350.2
40°	2257.2	2255.4	2254.5	2251.0	2247.4
42.5°	2133.9	2136.6	2138.4	2131.2	2124.1
45°	1991.8	1994.5	1998.1	1992.7	1982.9
47.5°	1825.6	1836.3	1831.0	1834.5	1824.7
50°	1657.6	1657.6	1648.7	1652.3	1646.9
52.5°	1481.6	1467.3	1456.6	1463.7	1470.9
55°	1314.5	1285.9	1268.0	1285.0	1305.5
57.5°	1154.5	1120.6	1087.5	1114.3	1139.3
60°	999.0	959.7	938.3	957.9	992.8
62.5°	851.6	823.0	801.6	816.7	846.2
65°	715.8	690.7	677.3	689.0	712.2
67.5°	591.6	574.6	561.2	571.0	588.9
70°	479.0	474.5	459.3	463.8	474.5
72.5°	376.2	375.3	361.9	365.5	371.7
75°	293.1	286.8	274.3	278.8	281.5
77.5°	207.3	210.0	198.4	201.1	201.1
80°	142.1	146.5	137.6	135.8	136.7
82.5°	90.3	90.3	89.4	88.5	85.8
85°	46.5	48.3	46.5	44.7	44.7
87.5°	17.9	17.9	17.9	17.0	16.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)