

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: P412455

Luminaire Tested: **22PD-75-PB1-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412455
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-75-PB1-L850
Description: 7500 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

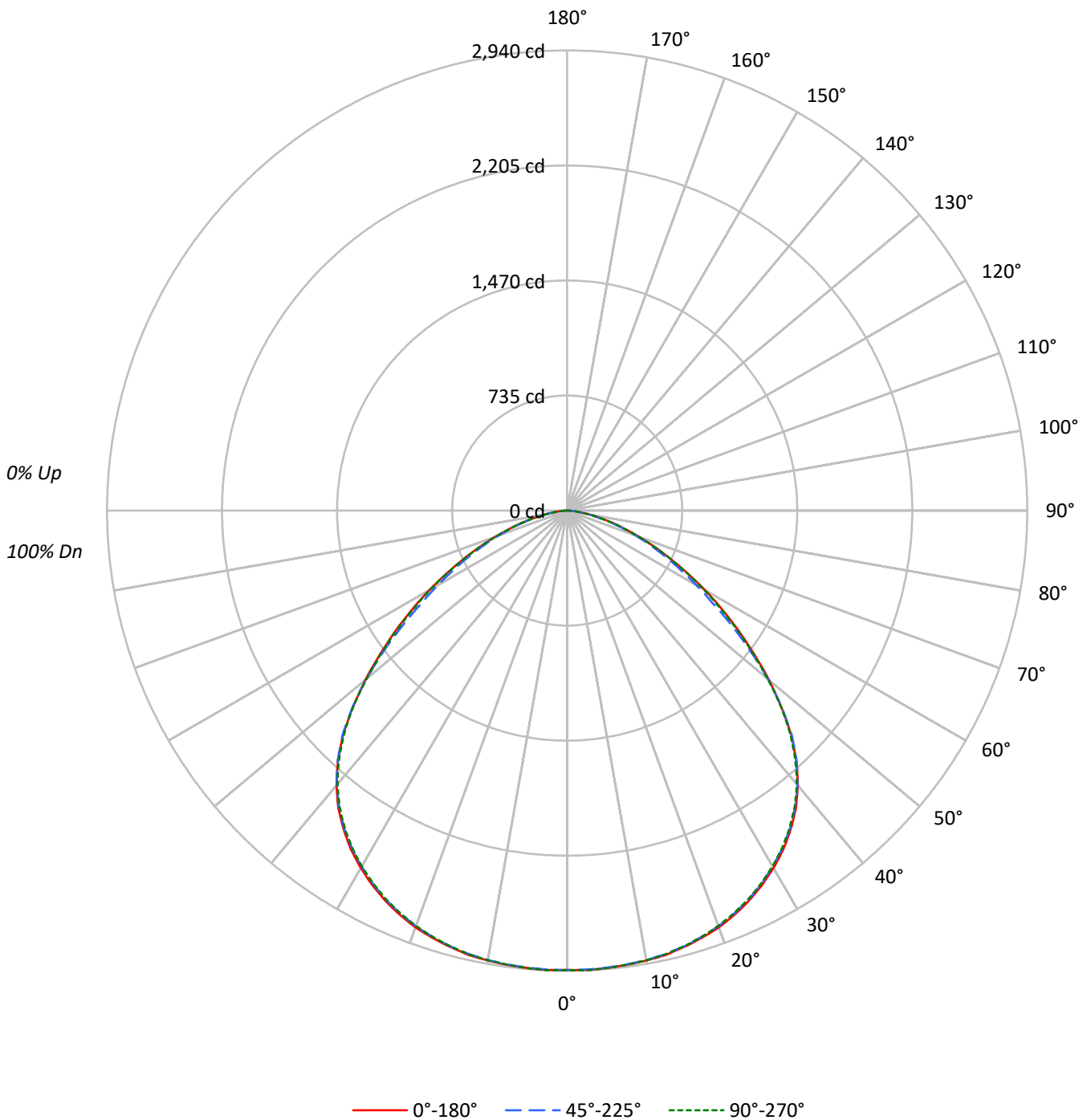
Lumens per Lamp: N/A
Luminaire Lumens: 7706.0 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.32 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 67.5
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: P412455

CATALOG NUMBER: 22PD-75-PB1-L850

Luminous Intensity Polar Plot





TEST NUMBER: P412455

CATALOG NUMBER: 22PD-75-PB1-L850

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°	7899	7899	7899
5°	7924	7917	7926
10°	7976	7966	7971
15°	8041	8028	8028
20°	8115	8091	8086
25°	8166	8141	8133
30°	8193	8159	8153
35°	8176	8152	8137
40°	8053	8044	8018
45°	7699	7723	7665
50°	7048	7010	7003
55°	6264	6042	6221
60°	5461	5129	5427
65°	4629	4381	4606
70°	3828	3670	3792
75°	3095	2897	2973
80°	2236	2166	2152
85°	1457	1457	1402



TEST NUMBER: P412455

CATALOG NUMBER: 22PD-75-PB1-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.3	3.6
10°-20°	814.5	10.6
20°-30°	1263.9	16.4
30°-40°	1550.0	20.1
40°-50°	1549.4	20.1
50°-60°	1173.6	15.2
60°-70°	703.9	9.1
70°-80°	309.9	4.0
80°-90°	61.5	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°	2357.7	30.6
0°-40°	3907.7	50.7
0°-60°	6630.7	86.0
0°-90°	7706.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7706.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2935	2935	2935	2935	2935	
5°	2933	2930	2931	2930	2934	280
15°	2886	2884	2882	2880	2882	816
25°	2750	2745	2742	2737	2739	1268
35°	2489	2488	2481	2480	2477	1554
45°	2023	2026	2029	2024	2014	1549
55°	1335	1306	1288	1305	1326	1197
65°	727	702	688	700	723	727
75°	298	291	279	283	286	318
85°	47	49	47	45	45	62
90°	0	0	0	0	0	



TEST NUMBER: P412455

CATALOG NUMBER: 22PD-75-PB1-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2935.2	2935.2	2935.2	2935.2	2935.2
2.5°	2937.9	2933.4	2934.3	2934.3	2939.7
5°	2933.4	2929.8	2930.7	2929.8	2934.3
7.5°	2927.0	2923.4	2924.3	2923.4	2926.1
10°	2918.9	2915.2	2915.2	2913.4	2917.1
12.5°	2908.0	2903.4	2901.6	2900.7	2903.4
15°	2886.2	2883.5	2881.7	2879.8	2881.7
17.5°	2862.6	2858.1	2856.2	2852.6	2856.2
20°	2833.6	2827.2	2825.4	2822.7	2823.6
22.5°	2795.4	2790.0	2787.3	2782.7	2784.5
25°	2750.1	2744.6	2741.9	2737.3	2739.2
27.5°	2697.4	2693.8	2687.4	2683.8	2684.7
30°	2636.6	2633.0	2625.7	2623.9	2623.9
32.5°	2569.4	2564.9	2558.5	2556.7	2555.8
35°	2488.7	2487.8	2481.4	2479.6	2476.9
37.5°	2400.6	2398.8	2391.5	2389.7	2387.0
40°	2292.6	2290.8	2289.9	2286.3	2282.6
42.5°	2167.4	2170.1	2171.9	2164.6	2157.4
45°	2023.1	2025.8	2029.4	2024.0	2014.0
47.5°	1854.2	1865.1	1859.7	1863.3	1853.3
50°	1683.6	1683.6	1674.5	1678.2	1672.7
52.5°	1504.8	1490.3	1479.4	1486.7	1493.9
55°	1335.1	1306.0	1287.9	1305.1	1326.0
57.5°	1172.6	1138.1	1104.6	1131.8	1157.2
60°	1014.7	974.8	953.0	973.0	1008.4
62.5°	865.0	835.9	814.1	829.6	859.5
65°	727.0	701.6	688.0	699.8	723.4
67.5°	600.8	583.6	570.0	580.0	598.1
70°	486.5	481.9	466.5	471.0	481.9
72.5°	382.1	381.2	367.6	371.2	377.6
75°	297.7	291.3	278.6	283.2	285.9
77.5°	210.6	213.3	201.5	204.2	204.2
80°	144.3	148.8	139.8	138.0	138.9
82.5°	91.7	91.7	90.8	89.9	87.1
85°	47.2	49.0	47.2	45.4	45.4
87.5°	18.2	18.2	18.2	17.2	16.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)