

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: P413162

Luminaire Tested: **22PD-85-PC3-L950**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413162
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-15)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22PD-85-PC3-L950
Description: 8500 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

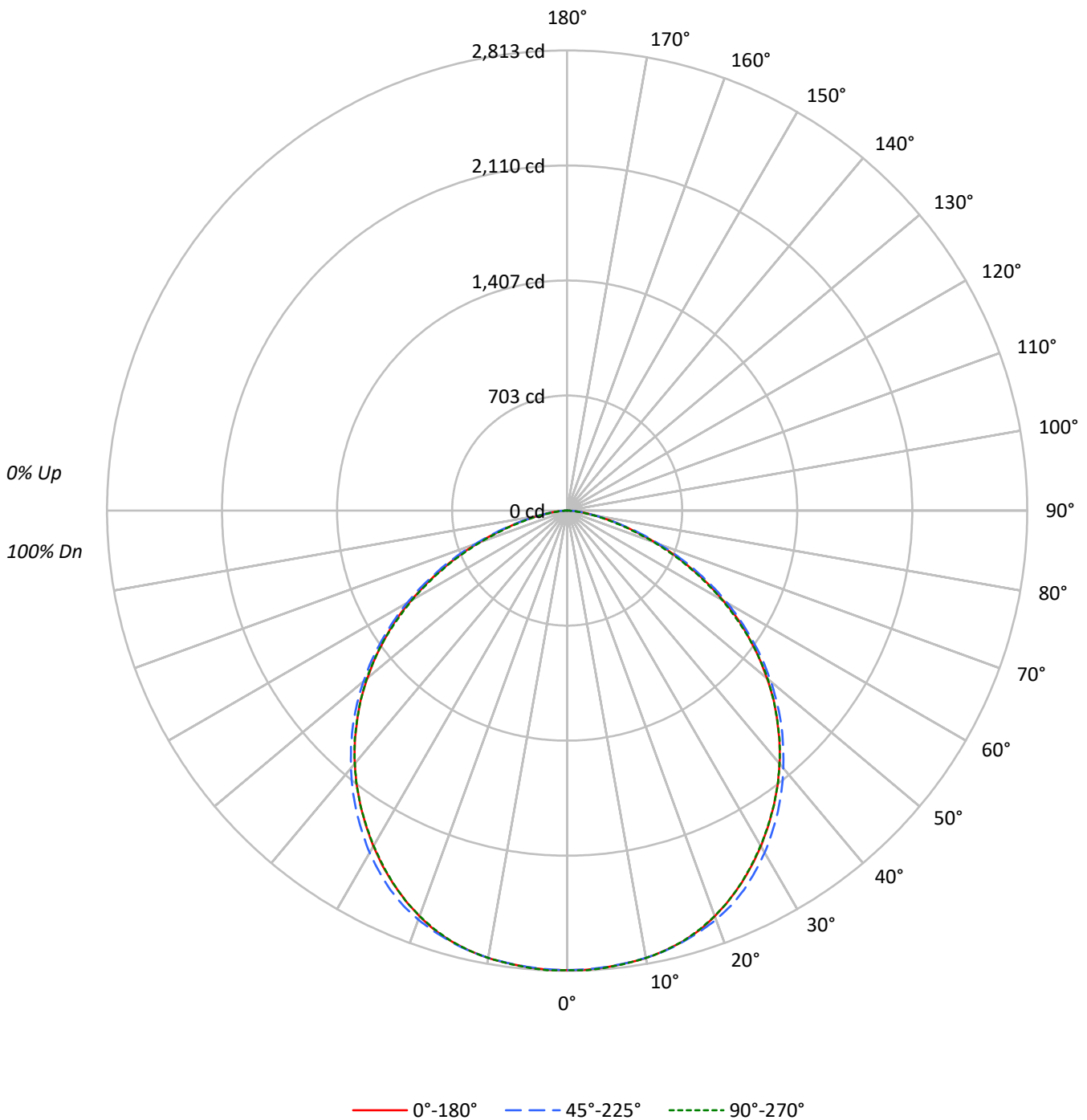
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7547.0 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
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: P413162
CATALOG NUMBER: 22PD-85-PC3-L950

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	110	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	76		80	77	74	72
3	91	81	73	67	89	80	72	67	77	70	65		74	69	64		71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56		66	60	55		64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	49		59	53	48		58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43		54	47	42		52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34		45	38	34		44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30		41	35	30		40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28		38	32	28		38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7560	7560	7560
5°	7569	7564	7574
10°	7588	7586	7588
15°	7597	7607	7595
20°	7559	7620	7554
25°	7471	7593	7466
30°	7361	7505	7349
35°	7233	7377	7233
40°	7097	7222	7097
45°	6910	7046	6920
50°	6674	6804	6700
55°	6364	6489	6364
60°	5934	6083	5896
65°	5326	5513	5257
70°	4556	4718	4422
75°	3614	3716	3428
80°	2590	2686	2464
85°	1711	1766	1599



TEST NUMBER: P413162

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.5	3.5
10°-20°	769.9	10.2
20°-30°	1168.1	15.5
30°-40°	1394.9	18.5
40°-50°	1418.7	18.8
50°-60°	1227.1	16.3
60°-70°	844.4	11.2
70°-80°	383.2	5.1
80°-90°	74.2	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°	2204.5	29.2
0°-40°	3599.4	47.7
0°-60°	6245.2	82.8
0°-90°	7547.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7547.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2809	2809	2809	2809	2809	
5°	2802	2800	2800	2800	2804	267
15°	2727	2729	2731	2726	2726	769
25°	2516	2538	2557	2534	2514	1159
35°	2202	2241	2246	2237	2202	1377
45°	1816	1849	1851	1850	1818	1400
55°	1356	1380	1383	1380	1356	1212
65°	836	860	866	859	826	830
75°	348	361	357	354	330	374
85°	55	59	57	55	52	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2809.3	2809.3	2809.3	2809.3	2809.3
2.5°	2809.3	2805.7	2806.6	2807.5	2812.9
5°	2802.1	2799.5	2800.3	2800.3	2803.9
7.5°	2790.5	2789.6	2789.6	2788.7	2791.4
10°	2777.1	2775.3	2776.2	2775.3	2777.1
12.5°	2756.6	2756.6	2757.5	2754.8	2756.6
15°	2727.1	2728.9	2730.7	2726.2	2726.2
17.5°	2689.5	2694.0	2698.5	2690.4	2686.0
20°	2639.5	2650.2	2661.0	2648.4	2637.7
22.5°	2581.4	2599.3	2615.4	2595.7	2581.4
25°	2516.2	2538.5	2557.3	2534.1	2514.4
27.5°	2445.6	2470.6	2488.5	2468.8	2442.0
30°	2368.8	2399.1	2415.2	2396.5	2365.2
32.5°	2286.6	2322.3	2332.1	2320.5	2284.8
35°	2201.7	2241.0	2245.5	2237.4	2201.7
37.5°	2113.2	2150.7	2154.3	2149.9	2113.2
40°	2020.3	2055.1	2056.0	2056.0	2020.3
42.5°	1921.1	1955.1	1955.1	1954.2	1923.8
45°	1815.7	1848.7	1851.4	1849.6	1818.4
47.5°	1711.1	1736.1	1740.6	1737.0	1709.3
50°	1594.1	1620.0	1625.3	1621.8	1600.3
52.5°	1477.9	1502.0	1507.4	1504.7	1480.6
55°	1356.4	1379.6	1383.2	1380.5	1356.4
57.5°	1239.3	1254.5	1258.1	1252.7	1222.4
60°	1102.6	1124.1	1130.3	1124.1	1095.5
62.5°	970.4	993.6	999.0	990.0	959.7
65°	836.4	859.6	865.8	858.7	825.6
67.5°	709.5	726.4	731.8	723.8	693.4
70°	579.0	600.5	599.6	588.8	562.0
72.5°	450.3	479.8	474.5	468.2	438.7
75°	347.6	361.0	357.4	353.8	329.7
77.5°	248.4	264.5	255.6	256.4	235.9
80°	167.1	182.3	173.3	169.8	159.0
82.5°	106.3	112.6	110.8	109.0	99.2
85°	55.4	59.0	57.2	55.4	51.8
87.5°	21.4	23.2	21.4	21.4	19.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)