

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: P412453

Luminaire Tested: **22PD-75-PB1-L835**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412453
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-L835
Description: 7500 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

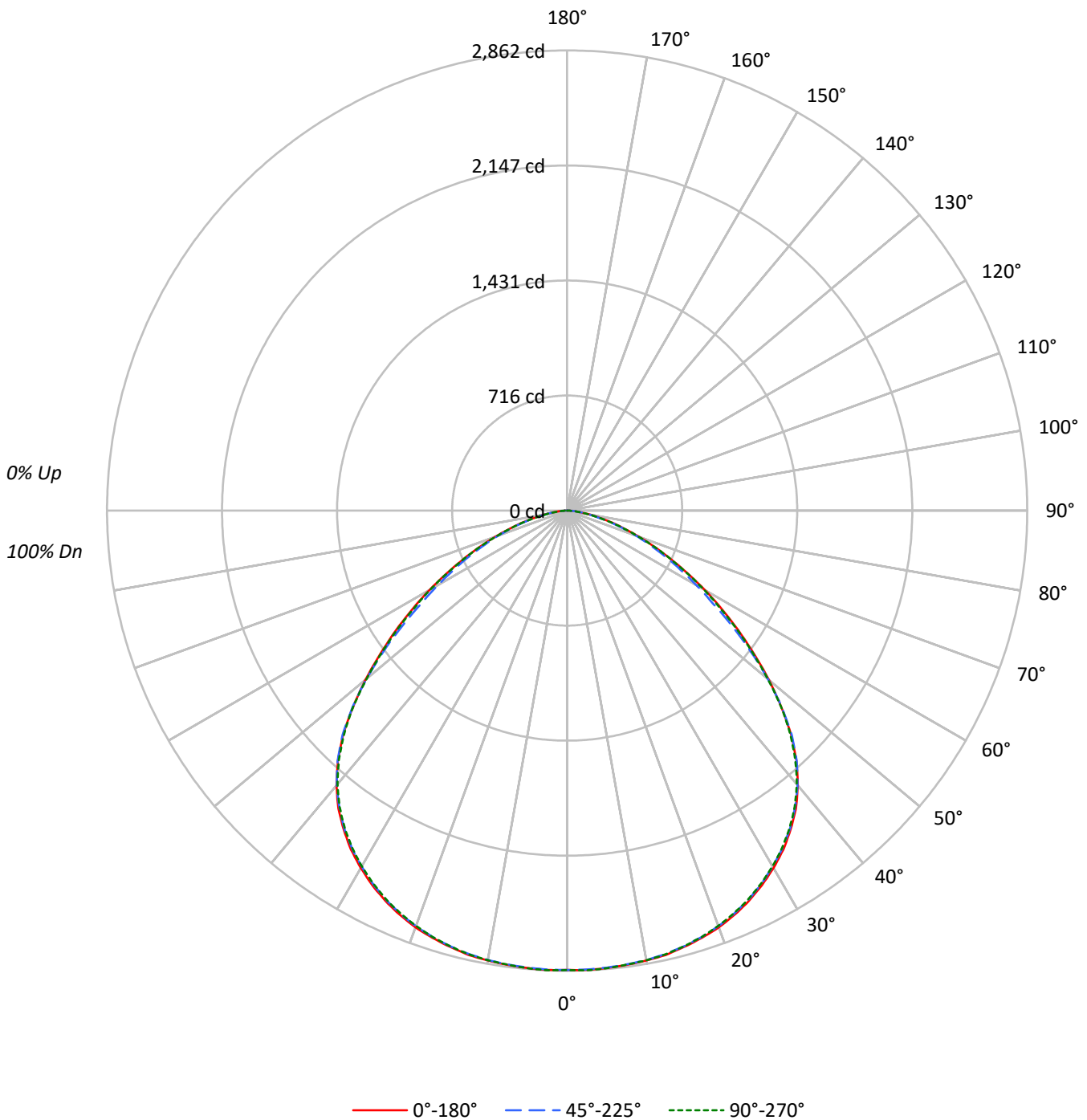
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7502.0 lumens
Efficiency: N/A
Efficacy: 111.1 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: P412453
CATALOG NUMBER: 22PD-75-PB1-L835

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	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°	7689	7689	7689
5°	7714	7707	7716
10°	7765	7755	7760
15°	7828	7816	7816
20°	7899	7877	7872
25°	7949	7926	7918
30°	7976	7943	7937
35°	7959	7936	7921
40°	7840	7831	7806
45°	7495	7519	7462
50°	6862	6825	6817
55°	6098	5882	6056
60°	5316	4993	5283
65°	4506	4265	4484
70°	3726	3574	3692
75°	3013	2821	2894
80°	2177	2109	2095
85°	1417	1417	1365



TEST NUMBER: P412453

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.9	3.6
10°-20°	793.0	10.6
20°-30°	1230.5	16.4
30°-40°	1508.9	20.1
40°-50°	1508.4	20.1
50°-60°	1142.6	15.2
60°-70°	685.3	9.1
70°-80°	301.7	4.0
80°-90°	59.9	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°	2295.3	30.6
0°-40°	3804.3	50.7
0°-60°	6455.2	86.0
0°-90°	7502.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7502.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2858	2858	2858	2858	2858	
5°	2856	2852	2853	2852	2857	272
15°	2810	2807	2805	2804	2805	794
25°	2677	2672	2669	2665	2667	1234
35°	2423	2422	2416	2414	2411	1513
45°	1970	1972	1976	1970	1961	1508
55°	1300	1272	1254	1271	1291	1165
65°	708	683	670	681	704	708
75°	290	284	271	276	278	309
85°	46	48	46	44	44	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2857.5	2857.5	2857.5	2857.5	2857.5
2.5°	2860.2	2855.7	2856.6	2856.6	2861.9
5°	2855.7	2852.2	2853.1	2852.2	2856.6
7.5°	2849.6	2846.0	2846.9	2846.0	2848.7
10°	2841.6	2838.1	2838.1	2836.3	2839.8
12.5°	2831.0	2826.6	2824.8	2823.9	2826.6
15°	2809.8	2807.1	2805.4	2803.6	2805.4
17.5°	2786.8	2782.4	2780.6	2777.1	2780.6
20°	2758.5	2752.4	2750.6	2747.9	2748.8
22.5°	2721.4	2716.1	2713.5	2709.1	2710.8
25°	2677.3	2672.0	2669.3	2664.9	2666.7
27.5°	2626.0	2622.5	2616.3	2612.8	2613.6
30°	2566.8	2563.3	2556.2	2554.4	2554.4
32.5°	2501.4	2497.0	2490.8	2489.1	2488.2
35°	2422.8	2421.9	2415.7	2413.9	2411.3
37.5°	2337.1	2335.3	2328.2	2326.5	2323.8
40°	2231.9	2230.2	2229.3	2225.7	2222.2
42.5°	2110.0	2112.6	2114.4	2107.3	2100.3
45°	1969.5	1972.2	1975.7	1970.4	1960.7
47.5°	1805.2	1815.8	1810.5	1814.0	1804.3
50°	1639.0	1639.0	1630.2	1633.7	1628.4
52.5°	1465.0	1450.8	1440.2	1447.3	1454.4
55°	1299.7	1271.5	1253.8	1270.6	1290.9
57.5°	1141.6	1108.0	1075.3	1101.8	1126.6
60°	987.8	949.0	927.8	947.2	981.7
62.5°	842.1	813.8	792.6	807.6	836.8
65°	707.7	683.0	669.8	681.2	704.2
67.5°	584.9	568.1	554.9	564.6	582.3
70°	473.6	469.2	454.2	458.6	469.2
72.5°	372.0	371.1	357.9	361.4	367.6
75°	289.8	283.6	271.3	275.7	278.3
77.5°	205.0	207.6	196.2	198.8	198.8
80°	140.5	144.9	136.1	134.3	135.2
82.5°	89.2	89.2	88.4	87.5	84.8
85°	45.9	47.7	45.9	44.2	44.2
87.5°	17.7	17.7	17.7	16.8	15.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)