

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: P412454

Luminaire Tested: **22PD-75-PB1-L840**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412454
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-L840
Description: 7500 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

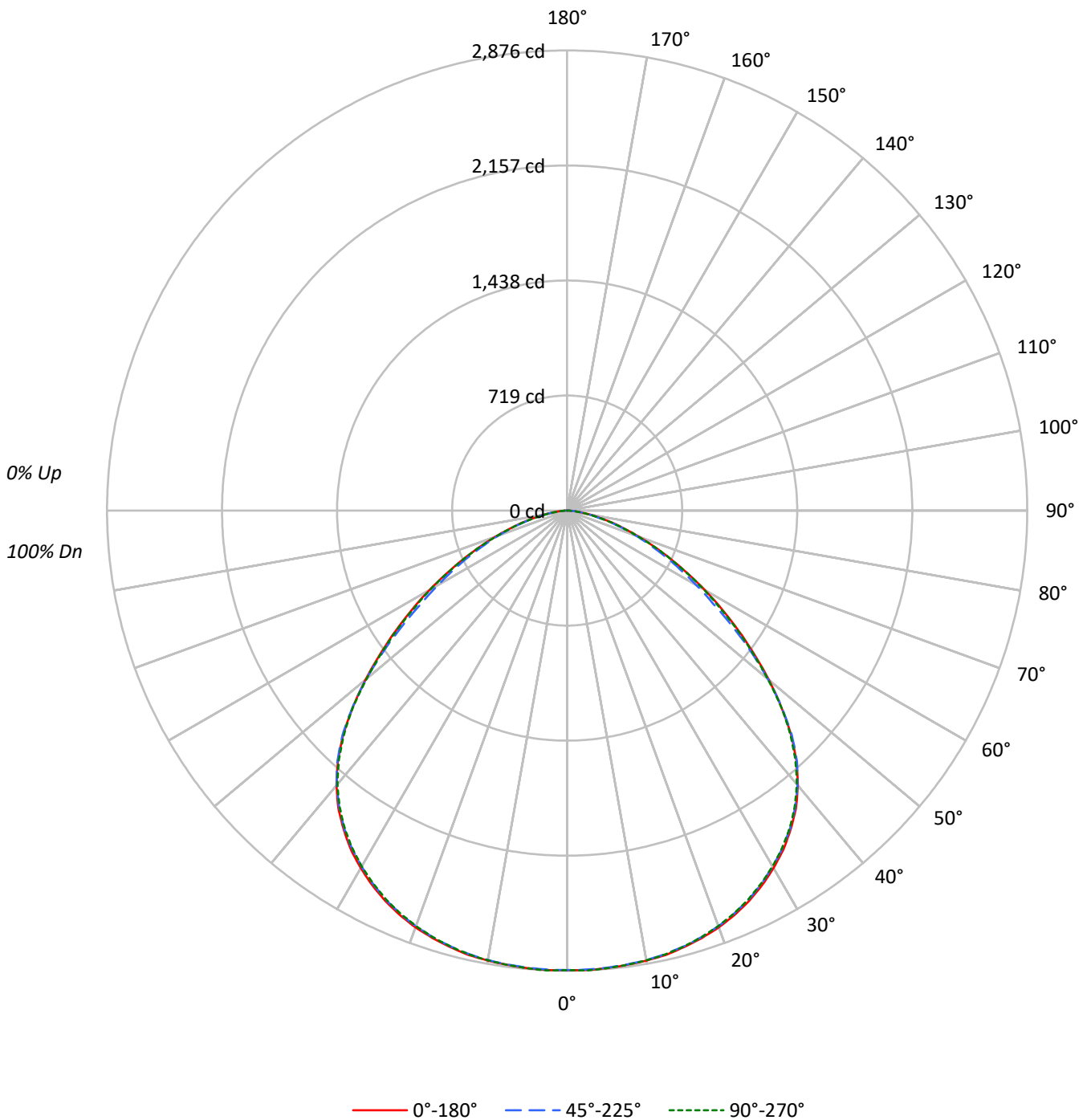
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7540.0 lumens
Efficiency: N/A
Efficacy: 111.7 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): 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

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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°	7728	7728	7728
5°	7753	7746	7756
10°	7804	7794	7799
15°	7867	7855	7855
20°	7940	7917	7911
25°	7989	7966	7958
30°	8016	7983	7978
35°	7999	7976	7961
40°	7880	7871	7846
45°	7533	7557	7499
50°	6896	6859	6852
55°	6129	5912	6087
60°	5343	5019	5310
65°	4529	4286	4507
70°	3745	3592	3710
75°	3029	2834	2908
80°	2188	2120	2106
85°	1426	1426	1371



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.3	3.6
10°-20°	797.0	10.6
20°-30°	1236.7	16.4
30°-40°	1516.6	20.1
40°-50°	1516.0	20.1
50°-60°	1148.3	15.2
60°-70°	688.7	9.1
70°-80°	303.3	4.0
80°-90°	60.2	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°	2307.0	30.6
0°-40°	3823.5	50.7
0°-60°	6487.9	86.0
0°-90°	7540.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7540.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2872	2872	2872	2872	2872	
5°	2870	2867	2868	2867	2871	274
15°	2824	2821	2820	2818	2820	798
25°	2691	2686	2683	2678	2680	1240
35°	2435	2434	2428	2426	2424	1521
45°	1980	1982	1986	1980	1971	1515
55°	1306	1278	1260	1277	1298	1171
65°	711	686	673	685	708	711
75°	291	285	273	277	280	311
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°	2872.0	2872.0	2872.0	2872.0	2872.0
2.5°	2874.6	2870.2	2871.1	2871.1	2876.4
5°	2870.2	2866.6	2867.5	2866.6	2871.1
7.5°	2864.0	2860.4	2861.3	2860.4	2863.1
10°	2856.0	2852.4	2852.4	2850.7	2854.2
12.5°	2845.3	2840.9	2839.1	2838.2	2840.9
15°	2824.0	2821.4	2819.6	2817.8	2819.6
17.5°	2800.9	2796.5	2794.7	2791.2	2794.7
20°	2772.5	2766.3	2764.5	2761.9	2762.7
22.5°	2735.2	2729.9	2727.2	2722.8	2724.6
25°	2690.8	2685.5	2682.8	2678.4	2680.2
27.5°	2639.3	2635.8	2629.5	2626.0	2626.9
30°	2579.8	2576.3	2569.2	2567.4	2567.4
32.5°	2514.1	2509.7	2503.4	2501.7	2500.8
35°	2435.1	2434.2	2427.9	2426.2	2423.5
37.5°	2348.9	2347.1	2340.0	2338.3	2335.6
40°	2243.2	2241.5	2240.6	2237.0	2233.5
42.5°	2120.7	2123.3	2125.1	2118.0	2110.9
45°	1979.5	1982.1	1985.7	1980.4	1970.6
47.5°	1814.3	1825.0	1819.6	1823.2	1813.4
50°	1647.3	1647.3	1638.5	1642.0	1636.7
52.5°	1472.4	1458.2	1447.5	1454.6	1461.7
55°	1306.3	1277.9	1260.2	1277.0	1297.5
57.5°	1147.4	1113.6	1080.8	1107.4	1132.3
60°	992.8	953.8	932.5	952.0	986.6
62.5°	846.3	817.9	796.6	811.7	841.0
65°	711.3	686.5	673.1	684.7	707.8
67.5°	587.9	571.0	557.7	567.5	585.2
70°	476.0	471.6	456.5	460.9	471.6
72.5°	373.9	373.0	359.7	363.2	369.4
75°	291.3	285.1	272.6	277.1	279.7
77.5°	206.0	208.7	197.1	199.8	199.8
80°	141.2	145.6	136.8	135.0	135.9
82.5°	89.7	89.7	88.8	87.9	85.3
85°	46.2	48.0	46.2	44.4	44.4
87.5°	17.8	17.8	17.8	16.9	16.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)