

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: P412452

Luminaire Tested: **22PD-75-PB1-L830**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412452
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-L830
Description: 7500 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

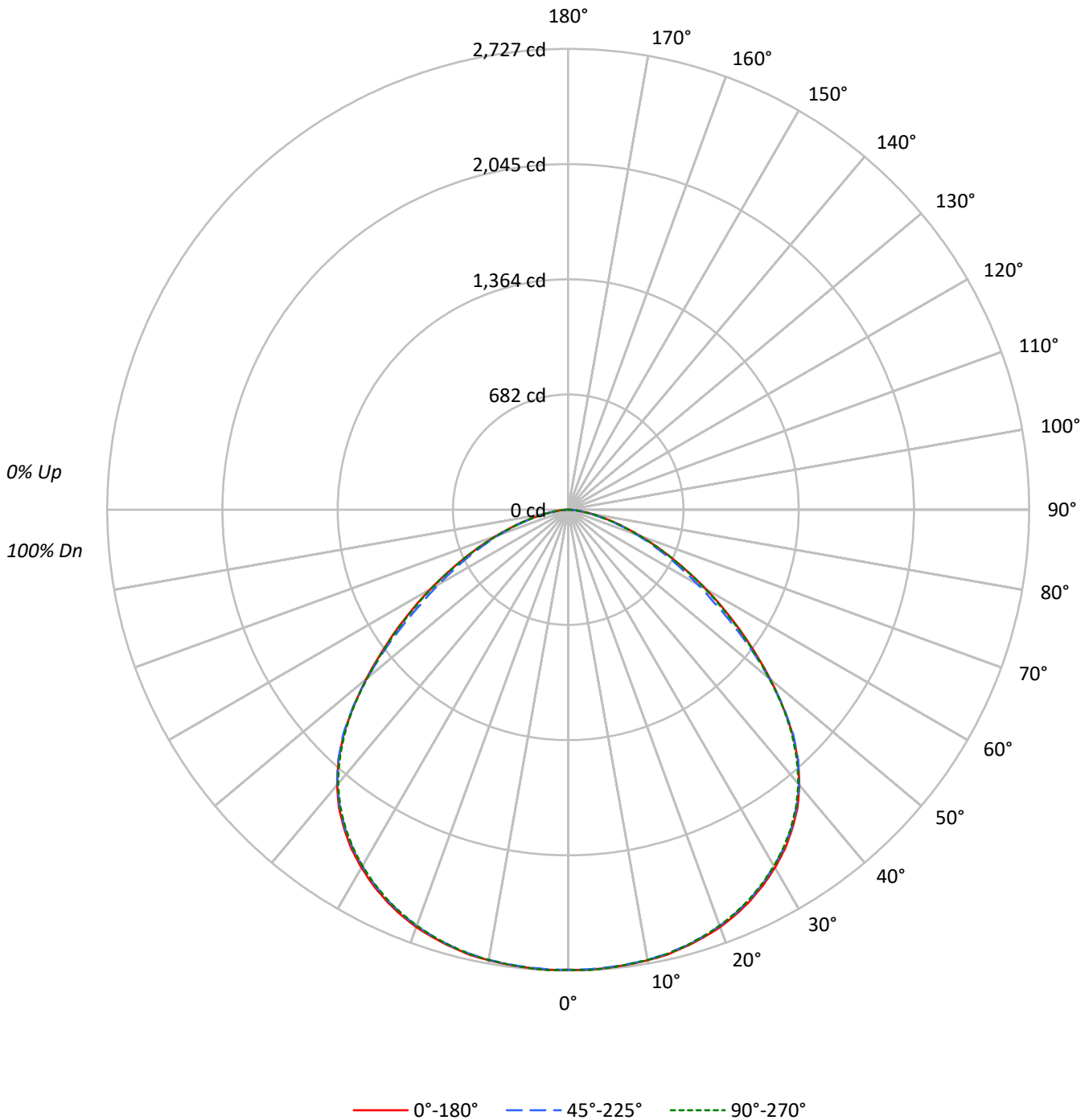
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7148.0 lumens
Efficiency: N/A
Efficacy: 105.9 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: P412452
CATALOG NUMBER: 22PD-75-PB1-L830

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°	7327	7327	7327
5°	7350	7343	7352
10°	7398	7389	7394
15°	7458	7447	7447
20°	7527	7505	7500
25°	7574	7551	7544
30°	7599	7568	7563
35°	7584	7561	7547
40°	7470	7462	7438
45°	7142	7164	7109
50°	6538	6503	6496
55°	5810	5605	5771
60°	5065	4758	5034
65°	4294	4064	4273
70°	3551	3404	3517
75°	2871	2688	2757
80°	2075	2010	1996
85°	1352	1352	1300



TEST NUMBER: P412452

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.1	3.6
10°-20°	755.6	10.6
20°-30°	1172.4	16.4
30°-40°	1437.7	20.1
40°-50°	1437.2	20.1
50°-60°	1088.6	15.2
60°-70°	652.9	9.1
70°-80°	287.5	4.0
80°-90°	57.0	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°	2187.0	30.6
0°-40°	3624.7	50.7
0°-60°	6150.6	86.0
0°-90°	7148.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7148.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2723	2723	2723	2723	2723	
5°	2721	2718	2718	2718	2722	259
15°	2677	2675	2673	2671	2673	757
25°	2551	2546	2543	2539	2541	1176
35°	2308	2308	2302	2300	2298	1442
45°	1877	1879	1882	1877	1868	1437
55°	1238	1212	1195	1211	1230	1110
65°	674	651	638	649	671	674
75°	276	270	258	263	265	295
85°	44	46	44	42	42	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2722.7	2722.7	2722.7	2722.7	2722.7
2.5°	2725.2	2721.0	2721.8	2721.8	2726.9
5°	2721.0	2717.6	2718.5	2717.6	2721.8
7.5°	2715.1	2711.7	2712.6	2711.7	2714.2
10°	2707.5	2704.1	2704.1	2702.5	2705.8
12.5°	2697.4	2693.2	2691.5	2690.7	2693.2
15°	2677.2	2674.7	2673.0	2671.3	2673.0
17.5°	2655.3	2651.1	2649.4	2646.1	2649.4
20°	2628.4	2622.5	2620.8	2618.3	2619.1
22.5°	2593.0	2588.0	2585.4	2581.2	2582.9
25°	2550.9	2545.9	2543.3	2539.1	2540.8
27.5°	2502.1	2498.7	2492.8	2489.5	2490.3
30°	2445.7	2442.3	2435.6	2433.9	2433.9
32.5°	2383.4	2379.2	2373.3	2371.6	2370.8
35°	2308.5	2307.6	2301.7	2300.0	2297.5
37.5°	2226.8	2225.1	2218.4	2216.7	2214.2
40°	2126.6	2124.9	2124.1	2120.7	2117.3
42.5°	2010.4	2013.0	2014.6	2007.9	2001.2
45°	1876.6	1879.1	1882.5	1877.4	1868.1
47.5°	1720.0	1730.1	1725.0	1728.4	1719.1
50°	1561.7	1561.7	1553.3	1556.7	1551.6
52.5°	1395.9	1382.4	1372.3	1379.0	1385.7
55°	1238.4	1211.5	1194.6	1210.6	1230.0
57.5°	1087.7	1055.7	1024.6	1049.8	1073.4
60°	941.2	904.2	884.0	902.5	935.3
62.5°	802.3	775.4	755.2	769.5	797.3
65°	674.4	650.8	638.2	649.1	671.0
67.5°	557.3	541.3	528.7	538.0	554.8
70°	451.3	447.0	432.7	436.9	447.0
72.5°	354.4	353.6	341.0	344.3	350.2
75°	276.1	270.2	258.5	262.7	265.2
77.5°	195.3	197.8	186.9	189.4	189.4
80°	133.9	138.1	129.7	128.0	128.8
82.5°	85.0	85.0	84.2	83.3	80.8
85°	43.8	45.5	43.8	42.1	42.1
87.5°	16.8	16.8	16.8	16.0	15.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)