

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: P412459

Luminaire Tested: **22PD-75-PB1-L940**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412459
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-L940
Description: 7500 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

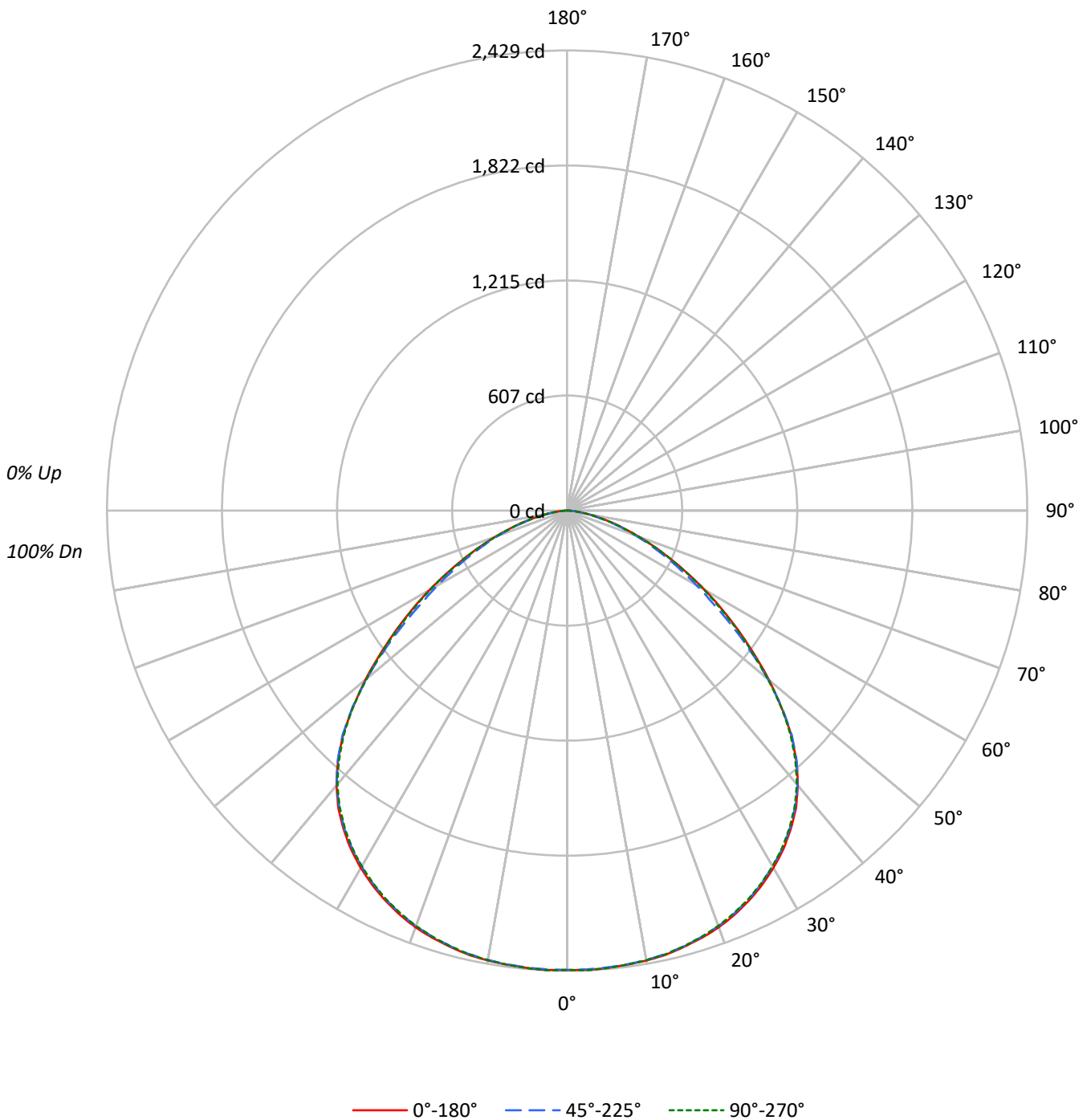
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6366.0 lumens
Efficiency: N/A
Efficacy: 94.3 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°	6525	6525	6525
5°	6546	6540	6548
10°	6589	6581	6585
15°	6642	6632	6632
20°	6703	6684	6680
25°	6745	6725	6719
30°	6768	6740	6735
35°	6754	6734	6722
40°	6653	6645	6624
45°	6360	6380	6332
50°	5823	5791	5785
55°	5174	4991	5139
60°	4512	4237	4483
65°	3824	3619	3805
70°	3162	3032	3132
75°	2557	2393	2456
80°	1847	1790	1777
85°	1204	1204	1158



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.7	3.6
10°-20°	672.9	10.6
20°-30°	1044.1	16.4
30°-40°	1280.4	20.1
40°-50°	1279.9	20.1
50°-60°	969.5	15.2
60°-70°	581.5	9.1
70°-80°	256.0	4.0
80°-90°	50.8	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°	1947.8	30.6
0°-40°	3228.2	50.7
0°-60°	5477.7	86.0
0°-90°	6366.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6366.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2425	2425	2425	2425	2425	
5°	2423	2420	2421	2420	2424	231
15°	2384	2382	2381	2379	2381	674
25°	2272	2267	2265	2261	2263	1047
35°	2056	2055	2050	2048	2046	1284
45°	1671	1674	1676	1672	1664	1279
55°	1103	1079	1064	1078	1095	989
65°	601	580	568	578	598	601
75°	246	241	230	234	236	262
85°	39	40	39	38	38	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2424.8	2424.8	2424.8	2424.8	2424.8
2.5°	2427.1	2423.3	2424.1	2424.1	2428.6
5°	2423.3	2420.3	2421.1	2420.3	2424.1
7.5°	2418.1	2415.1	2415.8	2415.1	2417.3
10°	2411.3	2408.3	2408.3	2406.8	2409.8
12.5°	2402.3	2398.6	2397.1	2396.3	2398.6
15°	2384.3	2382.1	2380.6	2379.1	2380.6
17.5°	2364.8	2361.1	2359.6	2356.6	2359.6
20°	2340.8	2335.6	2334.1	2331.8	2332.6
22.5°	2309.3	2304.8	2302.6	2298.8	2300.3
25°	2271.8	2267.3	2265.1	2261.3	2262.8
27.5°	2228.4	2225.4	2220.1	2217.1	2217.9
30°	2178.1	2175.1	2169.1	2167.6	2167.6
32.5°	2122.6	2118.9	2113.6	2112.1	2111.4
35°	2055.9	2055.2	2049.9	2048.4	2046.2
37.5°	1983.2	1981.7	1975.7	1974.2	1971.9
40°	1894.0	1892.5	1891.7	1888.7	1885.7
42.5°	1790.5	1792.7	1794.2	1788.2	1782.2
45°	1671.3	1673.5	1676.5	1672.0	1663.8
47.5°	1531.8	1540.8	1536.3	1539.3	1531.1
50°	1390.9	1390.9	1383.4	1386.4	1381.9
52.5°	1243.1	1231.1	1222.1	1228.1	1234.1
55°	1102.9	1078.9	1063.9	1078.2	1095.4
57.5°	968.7	940.2	912.5	935.0	956.0
60°	838.3	805.3	787.3	803.8	833.0
62.5°	714.5	690.6	672.6	685.3	710.0
65°	600.6	579.6	568.3	578.1	597.6
67.5°	496.4	482.1	470.9	479.1	494.1
70°	401.9	398.1	385.4	389.1	398.1
72.5°	315.7	314.9	303.7	306.7	311.9
75°	245.9	240.7	230.2	233.9	236.2
77.5°	173.9	176.2	166.5	168.7	168.7
80°	119.2	123.0	115.5	114.0	114.7
82.5°	75.7	75.7	75.0	74.2	72.0
85°	39.0	40.5	39.0	37.5	37.5
87.5°	15.0	15.0	15.0	14.2	13.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)