

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: P412891

Luminaire Tested: **24PD-60-PP3-L940**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412891
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-60-PP3-L940
Description: 6000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

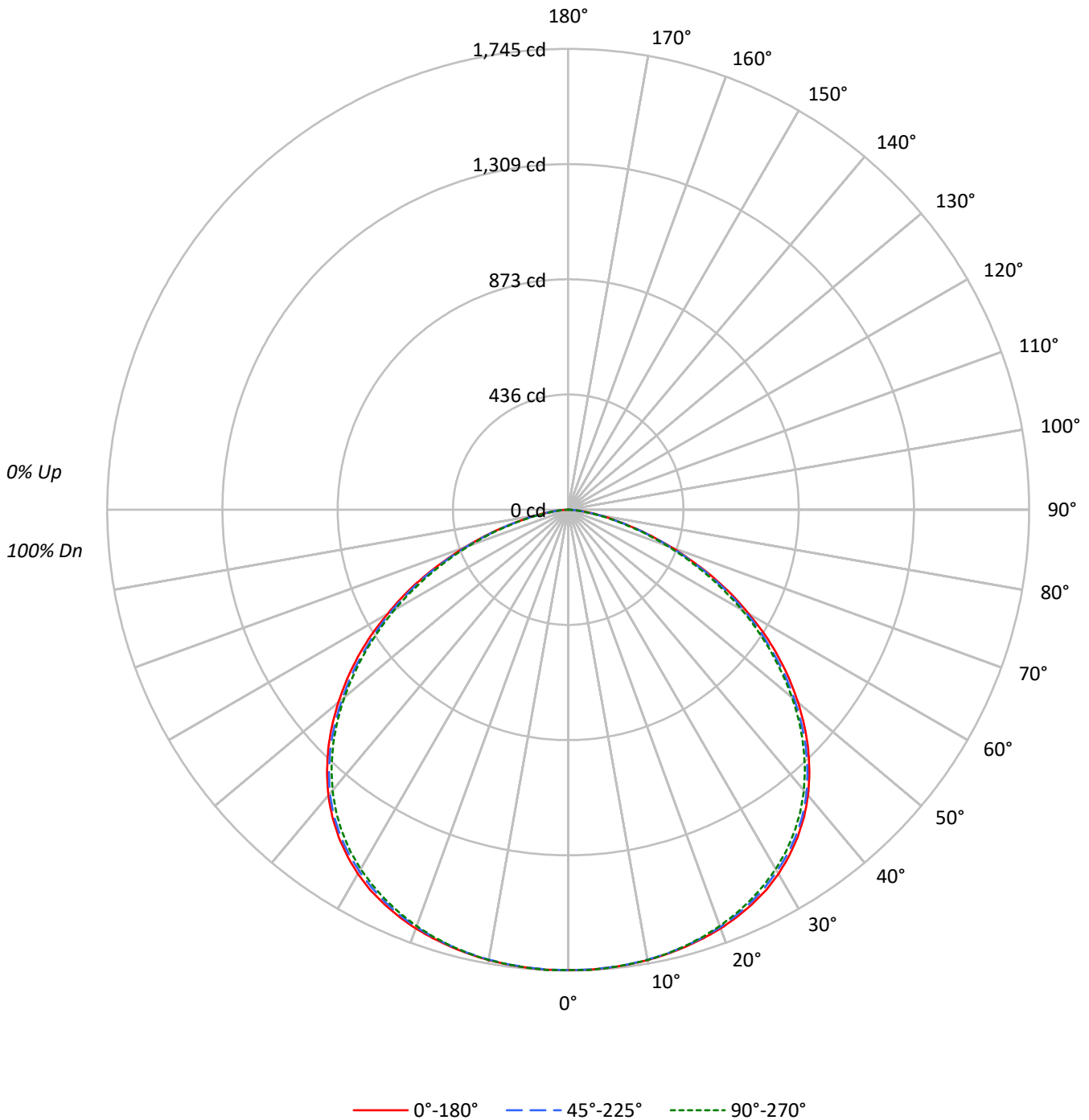
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5072.0 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.33 / 1.43
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 45.4
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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71					71			
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	63	60					60			
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52					52			
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45					45			
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39					39			
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31					31			
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27					27			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2345	2345	2345
5°	2352	2351	2352
10°	2366	2363	2366
15°	2387	2384	2382
20°	2416	2408	2402
25°	2446	2434	2422
30°	2474	2456	2440
35°	2487	2472	2449
40°	2480	2465	2438
45°	2445	2421	2394
50°	2378	2339	2315
55°	2279	2225	2196
60°	2124	2087	2045
65°	1925	1886	1832
70°	1643	1613	1561
75°	1283	1270	1209
80°	947	907	856
85°	571	571	533



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.8	3.3
10°-20°	483.9	9.5
20°-30°	756.4	14.9
30°-40°	940.0	18.5
40°-50°	979.4	19.3
50°-60°	849.9	16.8
60°-70°	584.4	11.5
70°-80°	263.7	5.2
80°-90°	48.3	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°	1406.1	27.7
0°-40°	2346.2	46.3
0°-60°	4175.5	82.3
0°-90°	5072.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5072.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1743	1743	1743	1743	1743	
5°	1741	1742	1741	1739	1742	166
15°	1714	1714	1711	1710	1710	485
25°	1648	1647	1639	1633	1632	760
35°	1514	1514	1505	1496	1491	946
45°	1285	1285	1272	1263	1258	989
55°	972	966	948	937	936	866
65°	605	602	592	578	575	597
75°	247	248	244	238	233	269
85°	37	36	37	36	34	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1743.1	1743.1	1743.1	1743.1	1743.1
2.5°	1743.6	1743.6	1742.6	1741.1	1744.6
5°	1741.1	1741.6	1740.6	1739.0	1741.6
7.5°	1737.5	1738.0	1736.5	1735.0	1737.0
10°	1731.9	1731.4	1729.9	1728.9	1731.4
12.5°	1723.8	1723.3	1721.8	1720.8	1722.8
15°	1713.7	1713.7	1711.2	1709.6	1710.2
17.5°	1701.5	1701.5	1698.0	1694.4	1695.5
20°	1687.3	1686.8	1681.8	1678.2	1677.7
22.5°	1669.6	1669.6	1662.5	1657.9	1656.4
25°	1647.8	1647.3	1639.2	1632.6	1631.6
27.5°	1623.0	1622.0	1612.3	1605.7	1603.2
30°	1592.1	1591.0	1580.9	1573.8	1570.8
32.5°	1555.6	1557.1	1545.4	1537.3	1534.3
35°	1514.0	1514.0	1504.9	1496.3	1491.2
37.5°	1466.4	1466.4	1457.7	1449.1	1443.0
40°	1412.1	1412.6	1403.5	1392.9	1387.8
42.5°	1351.3	1352.3	1340.1	1331.5	1326.0
45°	1284.9	1285.4	1272.2	1262.6	1258.0
47.5°	1212.9	1211.9	1197.2	1189.1	1184.5
50°	1135.9	1133.9	1117.6	1110.0	1106.0
52.5°	1055.3	1051.2	1037.0	1025.9	1022.3
55°	971.7	966.1	948.3	937.2	936.2
57.5°	884.5	877.9	863.2	852.5	848.5
60°	789.2	787.7	775.5	762.8	759.8
62.5°	700.0	695.4	684.8	669.6	668.0
65°	604.7	602.2	592.5	578.3	575.3
67.5°	506.4	508.9	500.8	488.1	484.1
70°	417.7	419.2	410.1	398.4	396.9
72.5°	328.4	331.0	323.4	315.8	314.3
75°	246.8	247.9	244.3	237.7	232.6
77.5°	175.4	178.9	174.9	170.3	166.3
80°	122.2	116.6	117.1	115.1	110.5
82.5°	73.5	71.0	70.5	68.4	66.4
85°	37.0	36.5	37.0	36.5	34.5
87.5°	12.2	13.2	13.7	13.7	12.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)