

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: P413248

Luminaire Tested: **24PD-70-PC3-L927**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413248
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-46)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-70-PC3-L927
Description: 7000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS
Light Source: -
Ballast/Driver: -

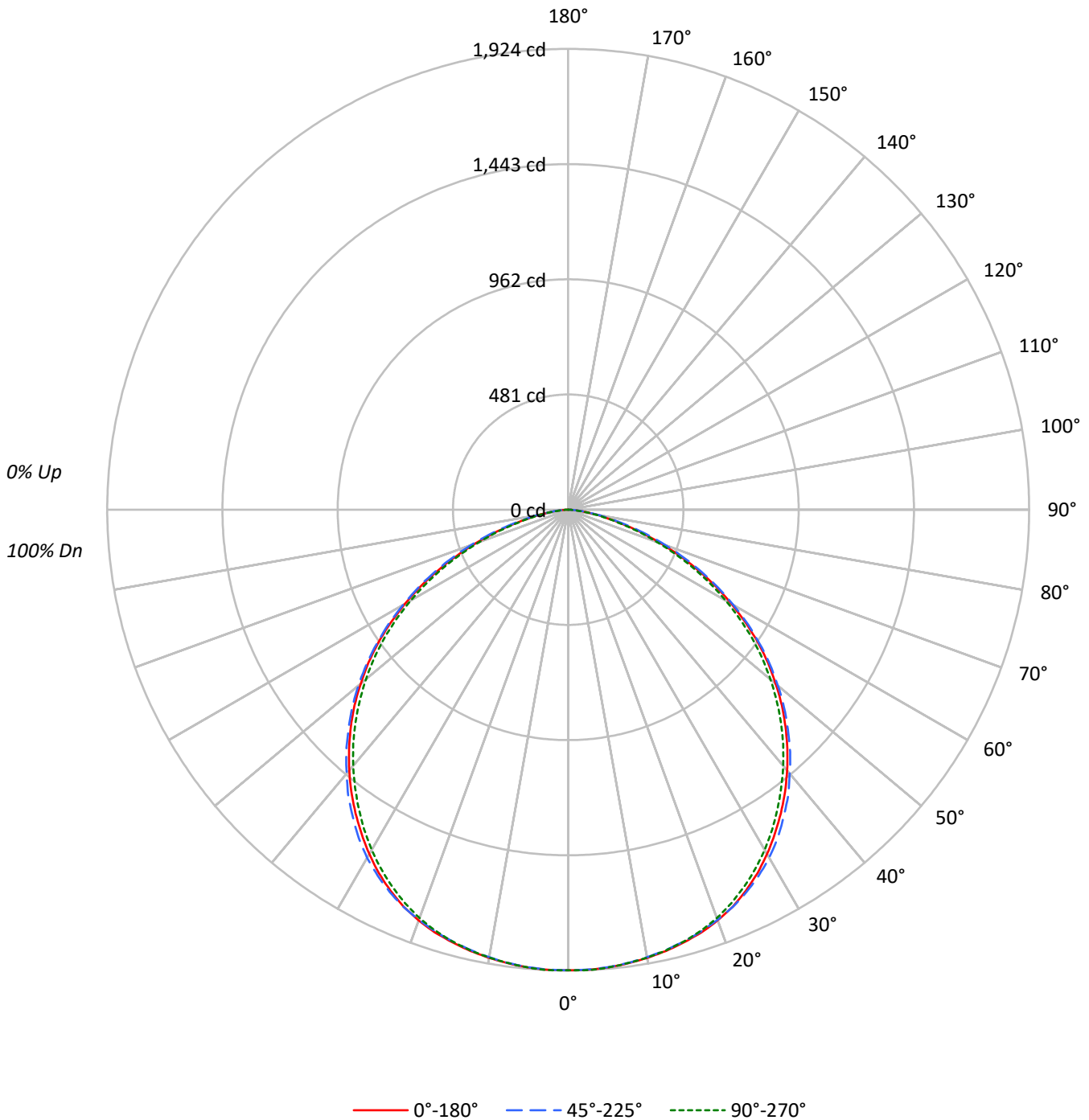
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5256.0 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 52.3
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	47	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2587	2587	2587
5°	2591	2589	2591
10°	2596	2592	2594
15°	2604	2599	2600
20°	2613	2609	2598
25°	2606	2615	2579
30°	2580	2607	2547
35°	2542	2574	2503
40°	2497	2527	2452
45°	2441	2467	2390
50°	2365	2392	2307
55°	2268	2288	2200
60°	2117	2141	2044
65°	1908	1955	1833
70°	1620	1691	1555
75°	1254	1346	1196
80°	933	974	846
85°	576	616	534



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.4	3.5
10°-20°	527.3	10.0
20°-30°	807.6	15.4
30°-40°	971.5	18.5
40°-50°	990.7	18.8
50°-60°	858.9	16.3
60°-70°	595.4	11.3
70°-80°	272.0	5.2
80°-90°	50.2	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°	1517.3	28.9
0°-40°	2488.8	47.4
0°-60°	4338.4	82.5
0°-90°	5256.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5256.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1923	1923	1923	1923	1923	
5°	1918	1918	1917	1916	1919	183
15°	1870	1869	1866	1864	1866	528
25°	1755	1760	1762	1746	1737	808
35°	1547	1564	1567	1547	1524	968
45°	1283	1299	1296	1279	1256	989
55°	967	973	975	951	938	861
65°	599	612	614	593	576	592
75°	241	255	259	250	230	264
85°	37	38	40	38	35	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1922.9	1922.9	1922.9	1922.9	1922.9
2.5°	1922.9	1922.9	1921.8	1920.8	1924.0
5°	1918.1	1918.1	1917.1	1916.0	1918.7
7.5°	1910.7	1910.1	1909.1	1908.0	1909.6
10°	1900.0	1899.5	1897.3	1896.8	1898.9
12.5°	1886.7	1886.2	1883.0	1883.0	1884.6
15°	1869.6	1869.1	1865.9	1864.3	1866.5
17.5°	1850.5	1849.9	1846.2	1841.9	1843.0
20°	1824.9	1824.9	1822.2	1815.8	1814.2
22.5°	1794.0	1795.6	1795.6	1783.4	1778.6
25°	1755.1	1759.9	1761.5	1746.1	1737.0
27.5°	1710.9	1718.4	1722.6	1702.9	1691.2
30°	1660.3	1672.6	1677.9	1656.6	1639.5
32.5°	1604.9	1620.4	1626.8	1606.0	1584.1
35°	1547.4	1563.9	1567.1	1546.9	1523.9
37.5°	1486.1	1503.2	1507.4	1489.3	1461.1
40°	1421.7	1438.7	1438.7	1423.8	1396.1
42.5°	1353.5	1371.6	1371.1	1353.0	1327.9
45°	1282.7	1298.6	1296.5	1278.9	1256.0
47.5°	1209.7	1219.8	1222.5	1201.7	1179.8
50°	1129.8	1139.9	1142.6	1119.1	1102.1
52.5°	1050.9	1057.3	1061.1	1033.9	1021.6
55°	966.8	972.6	975.3	951.3	938.0
57.5°	877.8	885.3	888.5	864.5	849.6
60°	786.7	794.7	795.8	773.4	759.6
62.5°	694.1	704.7	706.8	684.5	668.0
65°	599.2	612.0	614.2	593.4	575.8
67.5°	504.4	521.5	522.0	505.0	484.2
70°	411.7	430.4	429.9	415.5	395.2
72.5°	323.3	340.4	344.1	330.8	311.1
75°	241.3	254.6	258.9	250.4	230.1
77.5°	171.5	183.8	187.5	179.5	164.6
80°	120.4	120.9	125.7	119.3	109.2
82.5°	74.6	73.5	75.1	72.4	66.6
85°	37.3	38.4	39.9	37.8	34.6
87.5°	12.8	13.3	14.4	14.4	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)