

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: P413284

Luminaire Tested: **24PD-90-PC3-L927**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413284
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-90-PC3-L927
Description: 9000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS
Light Source: -
Ballast/Driver: -

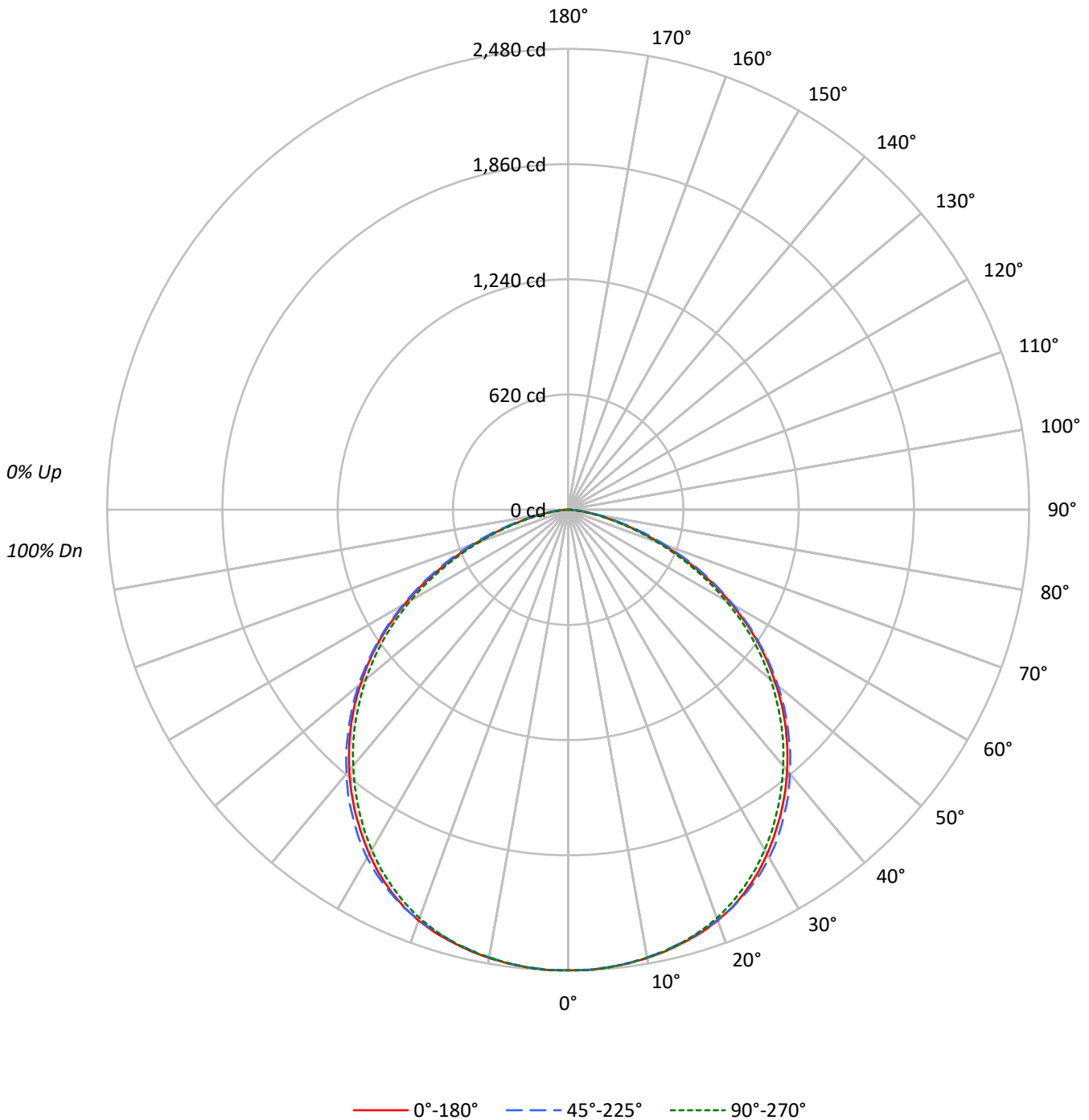
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6776.0 lumens
Efficiency: N/A
Efficacy: 98.6 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): 68.7
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°	3335	3335	3335
5°	3340	3338	3341
10°	3347	3342	3345
15°	3357	3351	3352
20°	3369	3364	3349
25°	3359	3371	3324
30°	3326	3361	3284
35°	3277	3318	3227
40°	3219	3258	3161
45°	3146	3180	3081
50°	3049	3083	2974
55°	2924	2950	2837
60°	2729	2761	2635
65°	2459	2521	2363
70°	2088	2180	2004
75°	1617	1735	1542
80°	1203	1256	1091
85°	743	795	689



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.2	3.5
10°-20°	679.8	10.0
20°-30°	1041.1	15.4
30°-40°	1252.5	18.5
40°-50°	1277.2	18.8
50°-60°	1107.2	16.3
60°-70°	767.6	11.3
70°-80°	350.6	5.2
80°-90°	64.8	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°	1956.1	28.9
0°-40°	3208.6	47.4
0°-60°	5593.0	82.5
0°-90°	6776.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6776.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2479	2479	2479	2479	2479	
5°	2473	2473	2472	2470	2474	235
15°	2410	2410	2406	2404	2406	681
25°	2263	2269	2271	2251	2239	1042
35°	1995	2016	2020	1994	1965	1247
45°	1654	1674	1671	1649	1619	1274
55°	1246	1254	1257	1226	1209	1111
65°	772	789	792	765	742	764
75°	311	328	334	323	297	340
85°	48	49	52	49	45	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2479.0	2479.0	2479.0	2479.0	2479.0
2.5°	2479.0	2479.0	2477.6	2476.3	2480.4
5°	2472.8	2472.8	2471.5	2470.1	2473.5
7.5°	2463.2	2462.5	2461.2	2459.8	2461.8
10°	2449.5	2448.8	2446.0	2445.4	2448.1
12.5°	2432.3	2431.6	2427.5	2427.5	2429.6
15°	2410.3	2409.6	2405.5	2403.5	2406.2
17.5°	2385.6	2384.9	2380.1	2374.6	2376.0
20°	2352.7	2352.7	2349.2	2341.0	2338.9
22.5°	2312.8	2314.9	2314.9	2299.1	2292.9
25°	2262.7	2268.9	2270.9	2251.0	2239.3
27.5°	2205.7	2215.3	2220.8	2195.4	2180.3
30°	2140.5	2156.3	2163.1	2135.7	2113.7
32.5°	2069.0	2089.0	2097.2	2070.4	2042.3
35°	1994.9	2016.2	2020.3	1994.2	1964.7
37.5°	1915.9	1937.9	1943.4	1920.0	1883.6
40°	1832.8	1854.8	1854.8	1835.6	1799.9
42.5°	1744.9	1768.3	1767.6	1744.2	1712.0
45°	1653.6	1674.2	1671.4	1648.8	1619.3
47.5°	1559.5	1572.6	1576.0	1549.2	1521.1
50°	1456.5	1469.5	1473.0	1442.8	1420.8
52.5°	1354.9	1363.1	1367.9	1332.9	1317.1
55°	1246.4	1253.9	1257.4	1226.5	1209.3
57.5°	1131.7	1141.3	1145.4	1114.5	1095.3
60°	1014.3	1024.6	1025.9	997.1	979.2
62.5°	894.8	908.5	911.3	882.4	861.1
65°	772.5	789.0	791.8	765.0	742.3
67.5°	650.3	672.3	673.0	651.0	624.2
70°	530.8	554.9	554.2	535.6	509.5
72.5°	416.8	438.8	443.6	426.4	401.0
75°	311.1	328.2	333.7	322.8	296.7
77.5°	221.1	236.9	241.7	231.4	212.2
80°	155.2	155.9	162.1	153.8	140.8
82.5°	96.1	94.8	96.8	93.4	85.8
85°	48.1	49.4	51.5	48.8	44.6
87.5°	16.5	17.2	18.5	18.5	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)