

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: P413194

Luminaire Tested: **24PD-40-PC3-L927**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413194
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-40-PC3-L927
Description: 4000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS
Light Source: -
Ballast/Driver: -

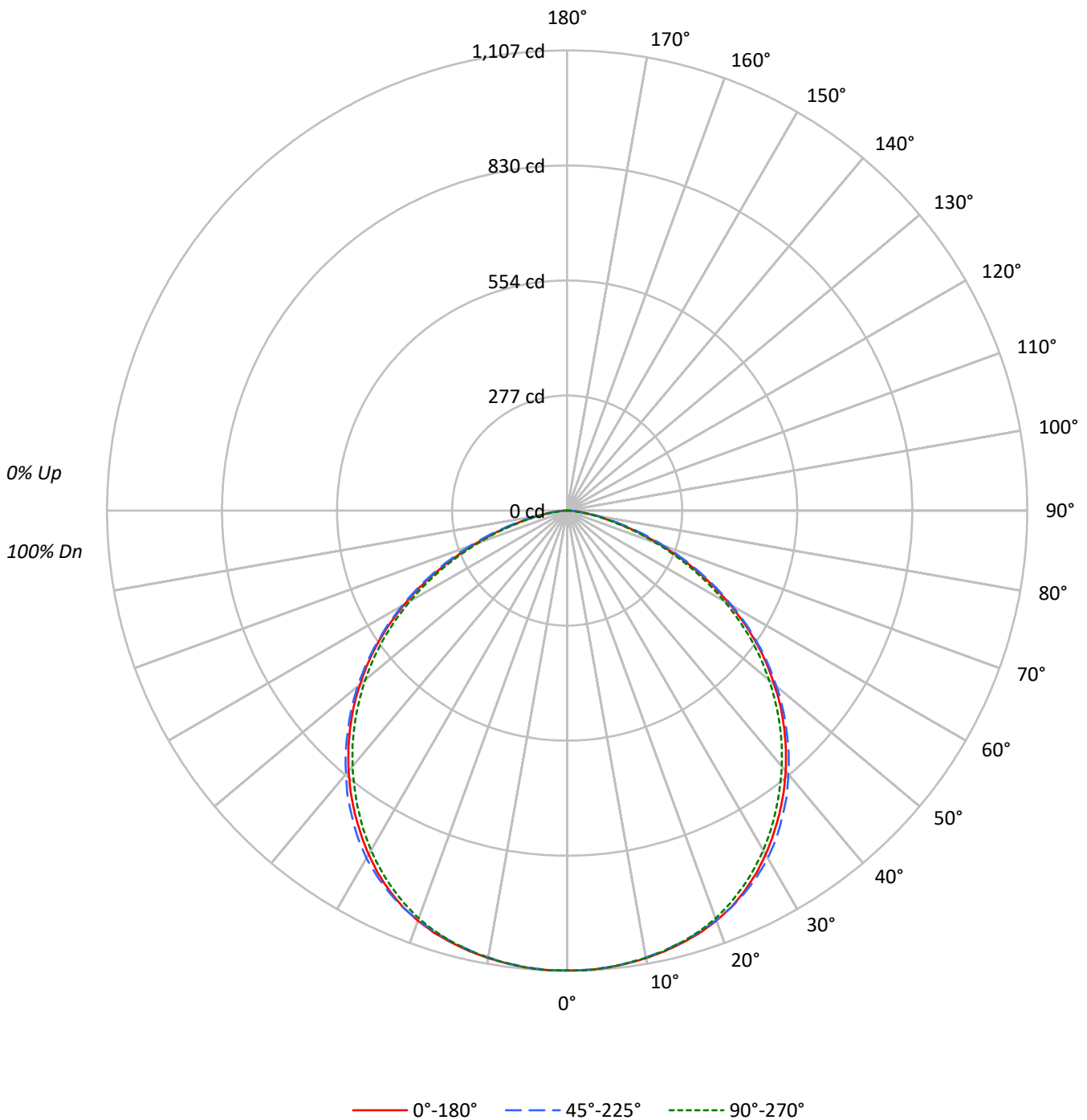
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3024.0 lumens
Efficiency: N/A
Efficacy: 101.8 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): 29.7
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°	1489	1489	1489
5°	1491	1490	1491
10°	1494	1491	1493
15°	1498	1495	1496
20°	1503	1501	1495
25°	1499	1505	1484
30°	1484	1500	1466
35°	1462	1481	1440
40°	1437	1454	1411
45°	1404	1419	1375
50°	1361	1376	1327
55°	1305	1316	1266
60°	1218	1232	1176
65°	1098	1125	1055
70°	932	973	895
75°	722	774	688
80°	537	560	487
85°	332	355	307



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.0	3.5
10°-20°	303.4	10.0
20°-30°	464.6	15.4
30°-40°	559.0	18.5
40°-50°	570.0	18.8
50°-60°	494.1	16.3
60°-70°	342.6	11.3
70°-80°	156.5	5.2
80°-90°	28.9	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°	873.0	28.9
0°-40°	1431.9	47.4
0°-60°	2496.1	82.5
0°-90°	3024.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3024.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1106	1106	1106	1106	1106	
5°	1104	1104	1103	1102	1104	105
15°	1076	1075	1074	1073	1074	304
25°	1010	1013	1014	1005	999	465
35°	890	900	902	890	877	557
45°	738	747	746	736	723	569
55°	556	560	561	547	540	496
65°	345	352	353	341	331	341
75°	139	146	149	144	132	152
85°	22	22	23	22	20	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1106.3	1106.3	1106.3	1106.3	<i>1106.3</i>
2.5°	<i>1106.3</i>	<i>1106.3</i>	<i>1105.7</i>	<i>1105.1</i>	<i>1106.9</i>
5°	1103.6	1103.6	1103.0	1102.3	<i>1103.9</i>
7.5°	1099.3	1099.0	1098.4	1097.8	<i>1098.7</i>
10°	1093.2	1092.8	1091.6	1091.3	<i>1092.5</i>
12.5°	1085.5	1085.2	1083.3	1083.3	<i>1084.3</i>
15°	1075.7	1075.4	1073.5	1072.6	<i>1073.8</i>
17.5°	1064.7	1064.3	1062.2	1059.8	<i>1060.4</i>
20°	1049.9	1049.9	1048.4	1044.7	<i>1043.8</i>
22.5°	1032.2	1033.1	1033.1	1026.0	<i>1023.3</i>
25°	1009.8	1012.6	1013.5	1004.6	<i>999.4</i>
27.5°	984.4	988.7	991.1	979.8	<i>973.0</i>
30°	955.2	962.3	965.4	953.1	<i>943.3</i>
32.5°	923.4	932.3	935.9	924.0	<i>911.4</i>
35°	890.3	899.8	901.6	890.0	<i>876.8</i>
37.5°	855.0	864.8	867.3	856.9	<i>840.6</i>
40°	818.0	827.8	827.8	819.2	<i>803.2</i>
42.5°	778.7	789.1	788.8	778.4	<i>764.0</i>
45°	738.0	747.2	745.9	735.8	<i>722.6</i>
47.5°	696.0	701.8	703.3	691.4	<i>678.8</i>
50°	650.0	655.8	657.4	643.9	<i>634.1</i>
52.5°	604.7	608.3	610.5	594.8	<i>587.8</i>
55°	556.2	559.6	561.1	547.3	<i>539.7</i>
57.5°	505.1	509.3	511.2	497.4	<i>488.8</i>
60°	452.6	457.2	457.9	445.0	<i>437.0</i>
62.5°	399.3	405.5	406.7	393.8	<i>384.3</i>
65°	344.8	352.1	353.4	341.4	<i>331.3</i>
67.5°	290.2	300.0	300.3	290.5	<i>278.6</i>
70°	236.9	247.6	247.3	239.0	<i>227.4</i>
72.5°	186.0	195.8	198.0	190.3	<i>179.0</i>
75°	138.8	146.5	148.9	144.0	<i>132.4</i>
77.5°	98.7	105.7	107.9	103.3	<i>94.7</i>
80°	69.3	69.6	72.3	68.6	<i>62.8</i>
82.5°	42.9	42.3	43.2	41.7	<i>38.3</i>
85°	21.5	22.1	23.0	21.8	<i>19.9</i>
87.5°	7.4	7.7	8.3	8.3	<i>7.4</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)