

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: P412852

Luminaire Tested: **24PD-40-PP3-L927**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412852
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-40-PP3-L927
Description: 4000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS
Light Source: -
Ballast/Driver: -

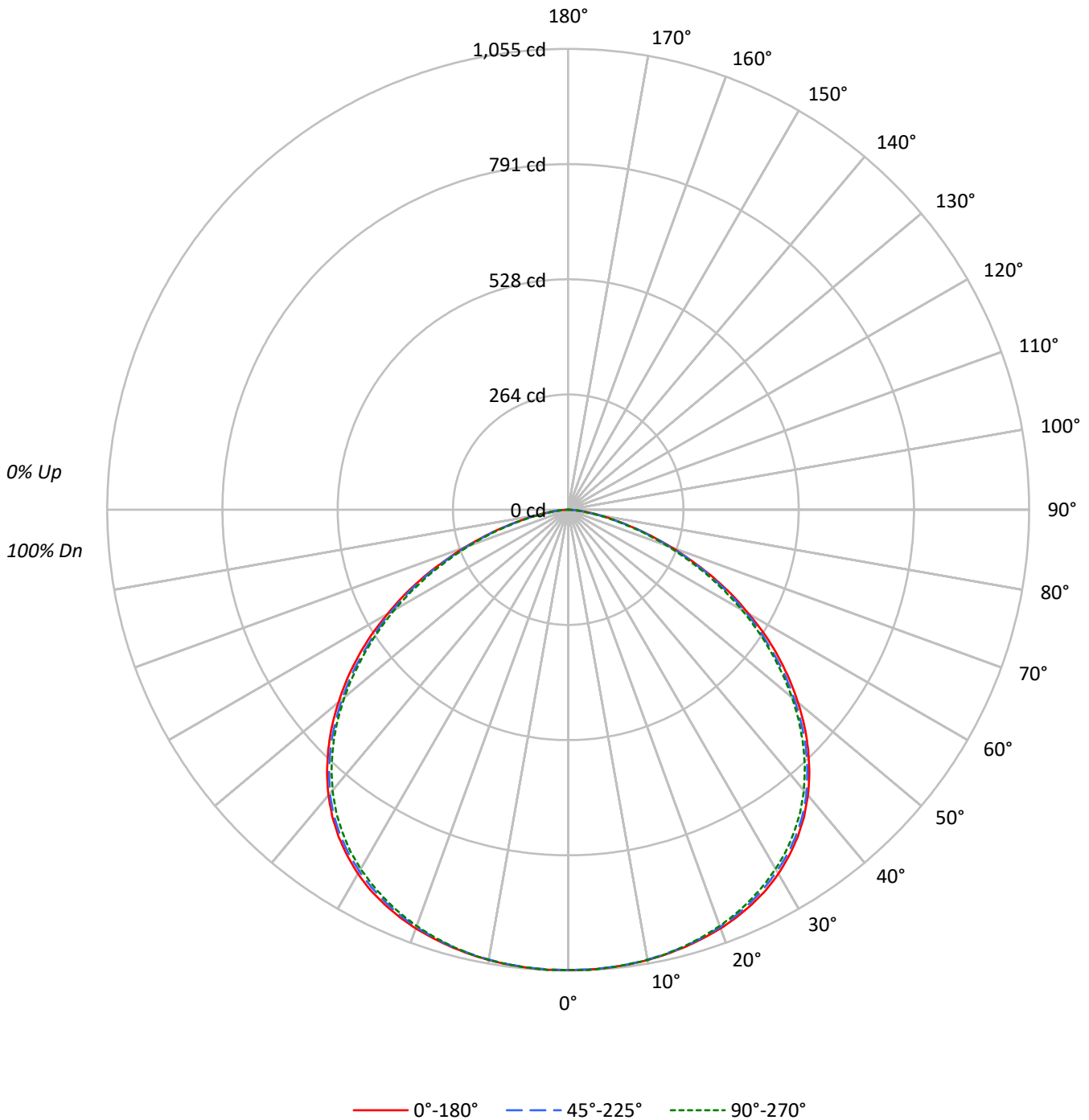
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3066.0 lumens
Efficiency: N/A
Efficacy: 103.2 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): 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	98	95	93		95	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80	77	74	71
3	91	81	73	66	89	79	72	66	76	70	65		73	68	64		71	66	63	60
4	83	72	63	56	81	70	62	56	68	61	55		65	59	54		63	58	54	52
5	77	64	55	49	75	63	54	48	61	53	48		59	52	47		57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42		53	46	41		52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37		48	42	37		47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33		44	38	33		43	37	32	31
9	57	44	35	30	55	43	35	30	42	35	30		41	34	29		40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1418	1418	1418
5°	1422	1421	1422
10°	1430	1429	1430
15°	1443	1441	1440
20°	1460	1456	1452
25°	1479	1471	1464
30°	1495	1485	1475
35°	1503	1494	1481
40°	1499	1490	1473
45°	1478	1463	1447
50°	1437	1414	1400
55°	1378	1345	1327
60°	1284	1262	1236
65°	1164	1140	1107
70°	993	975	944
75°	776	768	731
80°	572	549	518
85°	346	346	321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.2	3.3
10°-20°	292.5	9.5
20°-30°	457.2	14.9
30°-40°	568.3	18.5
40°-50°	592.1	19.3
50°-60°	513.8	16.8
60°-70°	353.3	11.5
70°-80°	159.4	5.2
80°-90°	29.2	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°	850.0	27.7
0°-40°	1418.3	46.3
0°-60°	2524.1	82.3
0°-90°	3066.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3066.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1054	1054	1054	1054	1054	
5°	1052	1053	1052	1051	1053	100
15°	1036	1036	1034	1034	1034	293
25°	996	996	991	987	986	460
35°	915	915	910	904	901	572
45°	777	777	769	763	760	598
55°	587	584	573	566	566	523
65°	366	364	358	350	348	361
75°	149	150	148	144	141	162
85°	22	22	22	22	21	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1053.7	1053.7	1053.7	1053.7	1053.7
2.5°	1054.0	1054.0	1053.4	1052.5	1054.6
5°	1052.5	1052.8	1052.2	1051.2	1052.8
7.5°	1050.3	1050.6	1049.7	1048.8	1050.0
10°	1047.0	1046.6	1045.7	1045.1	1046.6
12.5°	1042.1	1041.7	1040.8	1040.2	1041.4
15°	1035.9	1035.9	1034.4	1033.5	1033.8
17.5°	1028.6	1028.6	1026.4	1024.3	1024.9
20°	1020.0	1019.7	1016.6	1014.5	1014.2
22.5°	1009.3	1009.3	1005.0	1002.2	1001.3
25°	996.1	995.8	990.9	986.9	986.3
27.5°	981.1	980.5	974.6	970.7	969.1
30°	962.4	961.8	955.6	951.4	949.5
32.5°	940.3	941.2	934.2	929.3	927.5
35°	915.2	915.2	909.7	904.5	901.4
37.5°	886.4	886.4	881.2	876.0	872.3
40°	853.6	853.9	848.4	842.0	838.9
42.5°	816.9	817.5	810.1	804.9	801.5
45°	776.7	777.0	769.1	763.2	760.5
47.5°	733.2	732.6	723.7	718.8	716.0
50°	686.6	685.4	675.6	671.0	668.6
52.5°	637.9	635.5	626.9	620.1	618.0
55°	587.4	584.0	573.3	566.5	565.9
57.5°	534.7	530.7	521.8	515.4	512.9
60°	477.1	476.1	468.8	461.1	459.3
62.5°	423.1	420.4	413.9	404.7	403.8
65°	365.5	364.0	358.2	349.6	347.8
67.5°	306.1	307.6	302.7	295.1	292.6
70°	252.5	253.4	247.9	240.8	239.9
72.5°	198.5	200.1	195.5	190.9	190.0
75°	149.2	149.8	147.7	143.7	140.6
77.5°	106.0	108.2	105.7	102.9	100.5
80°	73.8	70.5	70.8	69.6	66.8
82.5°	44.4	42.9	42.6	41.4	40.1
85°	22.4	22.1	22.4	22.1	20.8
87.5°	7.4	8.0	8.3	8.3	7.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)