

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: P412753

Luminaire Tested: **22PD-50-PP3-L927**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412753
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-16)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22PD-50-PP3-L927
Description: 5000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

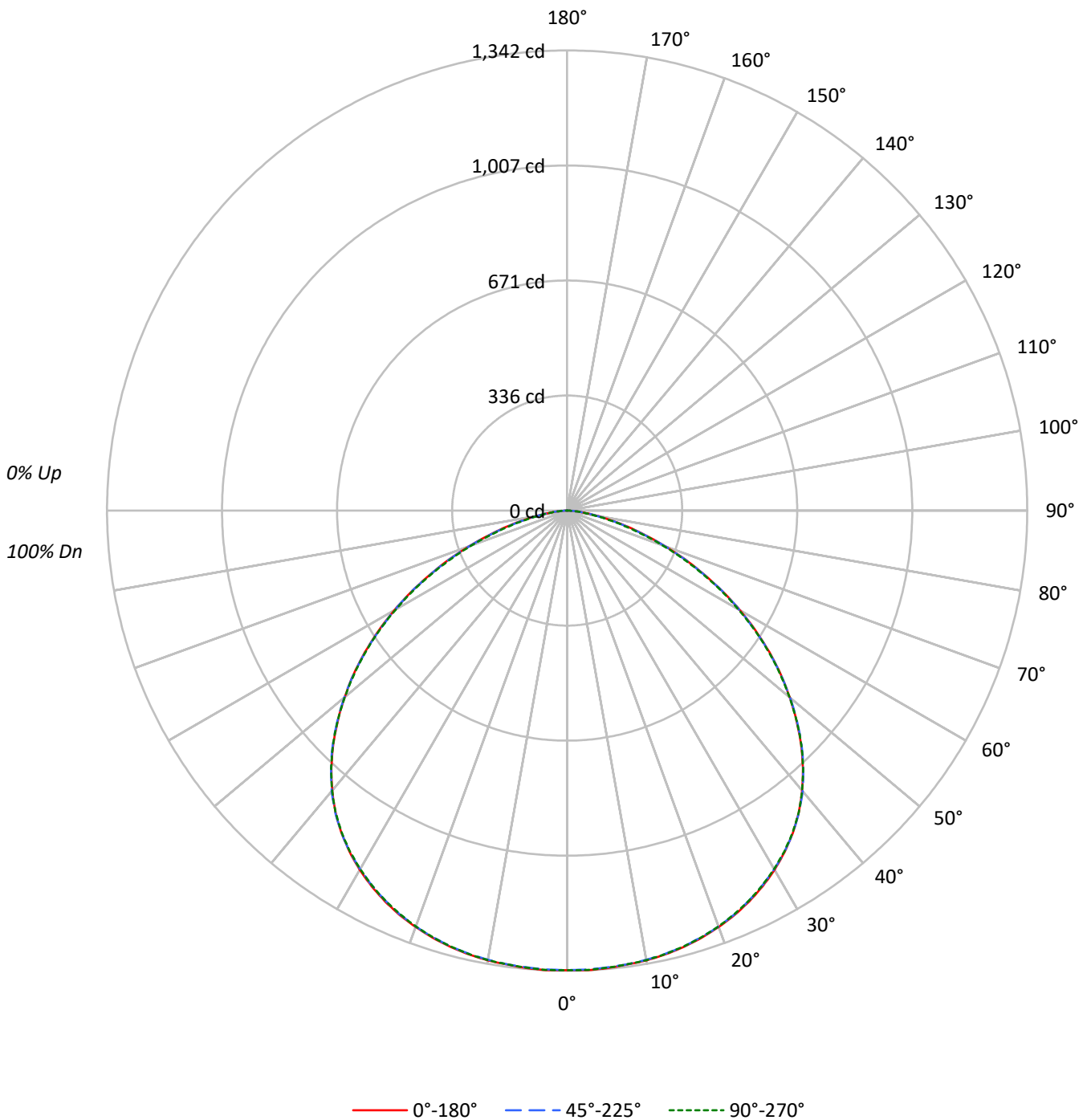
Lumens per Lamp: N/A
Luminaire Lumens: 3845.0 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.43
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 42.5
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	87	81	77		83	79	75		80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71	67	63	61
4	84	72	63	57	81	70	62	56	68	61	55		66	60	55		64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48		59	53	47		57	51	47	45
6	71	58	49	43	69	57	48	42	55	48	42		53	47	42		52	46	41	39
7	66	52	44	38	64	52	43	37	50	43	37		49	42	37		47	41	37	35
8	61	48	39	33	60	47	39	33	46	38	33		44	38	33		43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30		41	34	30		40	34	29	28
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°	3606	3606	3606
5°	3618	3613	3615
10°	3640	3635	3637
15°	3669	3665	3665
20°	3701	3697	3696
25°	3733	3727	3727
30°	3759	3753	3751
35°	3770	3770	3766
40°	3746	3753	3746
45°	3671	3682	3677
50°	3548	3553	3544
55°	3378	3369	3363
60°	3136	3129	3104
65°	2801	2798	2767
70°	2394	2380	2327
75°	1908	1852	1796
80°	1359	1331	1261
85°	883	883	855



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.4	3.3
10°-20°	371.8	9.7
20°-30°	578.9	15.1
30°-40°	716.4	18.6
40°-50°	742.9	19.3
50°-60°	640.3	16.7
60°-70°	435.3	11.3
70°-80°	194.8	5.1
80°-90°	37.1	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°	1078.1	28.0
0°-40°	1794.5	46.7
0°-60°	3177.8	82.6
0°-90°	3845.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3845.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1340	1340	1340	1340	1340	
5°	1339	1337	1338	1337	1338	128
15°	1317	1315	1316	1315	1316	372
25°	1257	1256	1255	1255	1255	580
35°	1148	1146	1148	1146	1146	717
45°	965	964	967	965	966	743
55°	720	717	718	717	717	642
65°	440	443	439	438	434	437
75°	184	184	178	177	173	197
85°	29	30	29	28	28	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1340.2	1340.2	1340.2	1340.2	1340.2
2.5°	1341.9	1339.3	1339.3	1339.7	1341.0
5°	1339.3	1336.6	1337.5	1337.0	1338.4
7.5°	1335.7	1333.4	1334.8	1333.9	1334.8
10°	1332.1	1329.9	1330.3	1329.9	1331.2
12.5°	1325.8	1323.2	1324.0	1324.0	1324.5
15°	1316.9	1314.6	1315.5	1314.6	1315.5
17.5°	1306.1	1303.5	1303.9	1303.5	1304.4
20°	1292.3	1290.5	1290.9	1290.0	1290.5
22.5°	1276.6	1274.4	1274.8	1273.9	1273.9
25°	1257.4	1255.6	1255.1	1254.7	1255.1
27.5°	1235.0	1232.8	1232.8	1232.3	1232.3
30°	1209.9	1207.7	1207.7	1207.3	1207.3
32.5°	1180.4	1179.5	1180.0	1179.1	1178.6
35°	1147.7	1146.4	1147.7	1146.0	1146.4
37.5°	1109.7	1107.9	1110.6	1108.8	1109.3
40°	1066.3	1065.4	1068.5	1067.2	1066.3
42.5°	1018.0	1018.0	1019.3	1019.8	1018.9
45°	964.7	963.8	967.4	965.2	966.1
47.5°	907.5	906.1	908.8	908.4	907.9
50°	847.5	846.6	848.8	846.6	846.6
52.5°	785.3	784.9	785.3	783.1	782.6
55°	720.0	717.3	718.2	716.8	716.8
57.5°	652.0	648.8	649.3	648.8	649.3
60°	582.6	581.7	581.3	579.0	576.8
62.5°	511.5	512.3	511.9	508.8	506.5
65°	439.9	443.4	439.4	438.1	434.5
67.5°	372.3	373.6	370.9	367.8	363.8
70°	304.3	307.0	302.5	299.4	295.8
72.5°	239.4	241.2	237.2	235.4	230.9
75°	183.5	183.9	178.1	177.2	172.7
77.5°	130.7	132.4	128.0	128.0	123.5
80°	87.7	90.8	85.9	84.6	81.4
82.5°	55.0	55.5	54.1	52.8	51.5
85°	28.6	29.5	28.6	27.7	27.7
87.5°	10.7	11.2	10.7	10.3	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)