

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: P412746

Luminaire Tested: **22PD-45-PP3-L935**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412746
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-45-PP3-L935
Description: 4500 LUMEN 2X2 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

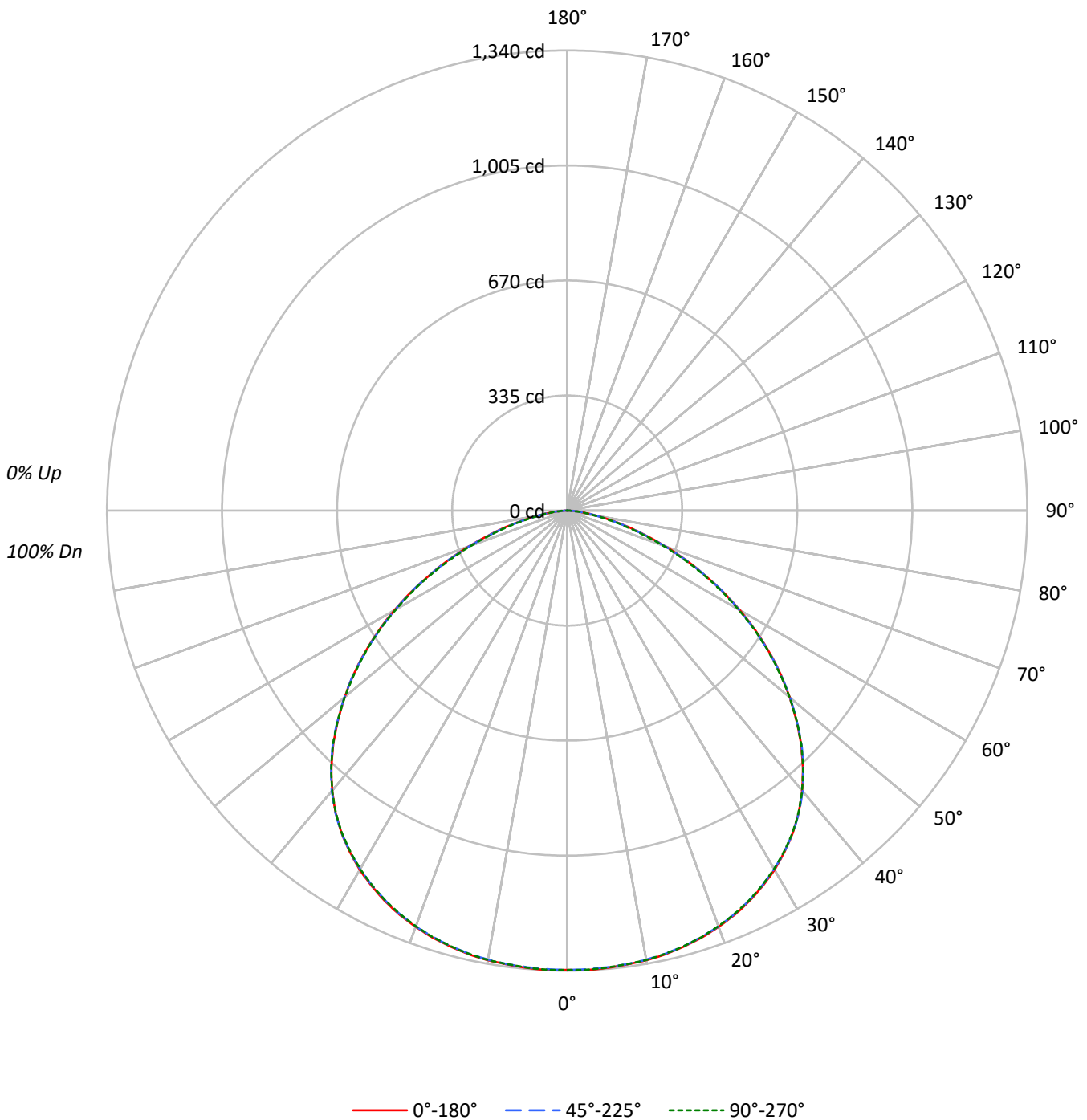
Lumens per Lamp: N/A
Luminaire Lumens: 3838.0 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.43
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 38.2
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°	3600	3600	3600
5°	3611	3606	3609
10°	3633	3628	3631
15°	3662	3658	3658
20°	3694	3690	3689
25°	3727	3720	3720
30°	3753	3746	3745
35°	3764	3764	3759
40°	3739	3747	3739
45°	3665	3675	3670
50°	3542	3547	3538
55°	3372	3363	3357
60°	3130	3123	3098
65°	2796	2793	2762
70°	2389	2375	2323
75°	1904	1849	1792
80°	1356	1330	1260
85°	883	883	855



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.2	3.3
10°-20°	371.1	9.7
20°-30°	577.8	15.1
30°-40°	715.1	18.6
40°-50°	741.6	19.3
50°-60°	639.2	16.7
60°-70°	434.5	11.3
70°-80°	194.4	5.1
80°-90°	37.0	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°	1076.1	28.0
0°-40°	1791.3	46.7
0°-60°	3172.0	82.6
0°-90°	3838.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3838.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1338	1338	1338	1338	1338	
5°	1337	1334	1335	1335	1336	127
15°	1314	1312	1313	1312	1313	372
25°	1255	1253	1253	1252	1253	579
35°	1146	1144	1146	1144	1144	716
45°	963	962	966	963	964	741
55°	719	716	717	716	716	641
65°	439	443	439	437	434	436
75°	183	184	178	177	172	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°	1337.7	1337.7	1337.7	1337.7	1337.7
2.5°	1339.5	1336.8	1336.8	1337.3	1338.6
5°	1336.8	1334.1	1335.0	1334.6	1335.9
7.5°	1333.2	1331.0	1332.4	1331.5	1332.4
10°	1329.7	1327.4	1327.9	1327.4	1328.8
12.5°	1323.4	1320.7	1321.6	1321.6	1322.1
15°	1314.5	1312.3	1313.1	1312.3	1313.1
17.5°	1303.8	1301.1	1301.5	1301.1	1302.0
20°	1289.9	1288.1	1288.6	1287.7	1288.1
22.5°	1274.3	1272.1	1272.5	1271.6	1271.6
25°	1255.1	1253.3	1252.9	1252.4	1252.9
27.5°	1232.8	1230.5	1230.5	1230.1	1230.1
30°	1207.7	1205.5	1205.5	1205.1	1205.1
32.5°	1178.3	1177.4	1177.8	1176.9	1176.5
35°	1145.7	1144.3	1145.7	1143.9	1144.3
37.5°	1107.7	1105.9	1108.6	1106.8	1107.2
40°	1064.4	1063.5	1066.6	1065.3	1064.4
42.5°	1016.1	1016.1	1017.5	1017.9	1017.0
45°	963.0	962.1	965.7	963.4	964.3
47.5°	905.8	904.5	907.1	906.7	906.3
50°	846.0	845.1	847.3	845.1	845.1
52.5°	783.9	783.4	783.9	781.6	781.2
55°	718.7	716.0	716.9	715.5	715.5
57.5°	650.8	647.6	648.1	647.6	648.1
60°	581.5	580.6	580.2	578.0	575.7
62.5°	510.5	511.4	511.0	507.8	505.6
65°	439.1	442.6	438.6	437.3	433.7
67.5°	371.6	373.0	370.3	367.1	363.1
70°	303.7	306.4	301.9	298.8	295.2
72.5°	239.0	240.7	236.7	234.9	230.5
75°	183.1	183.6	177.8	176.9	172.4
77.5°	130.4	132.2	127.7	127.7	123.3
80°	87.5	90.7	85.8	84.4	81.3
82.5°	54.9	55.4	54.0	52.7	51.4
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)