

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: P412404

Luminaire Tested: **22PD-45-PB1-L935**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412404
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22PD-45-PB1-L935
Description: 4500 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

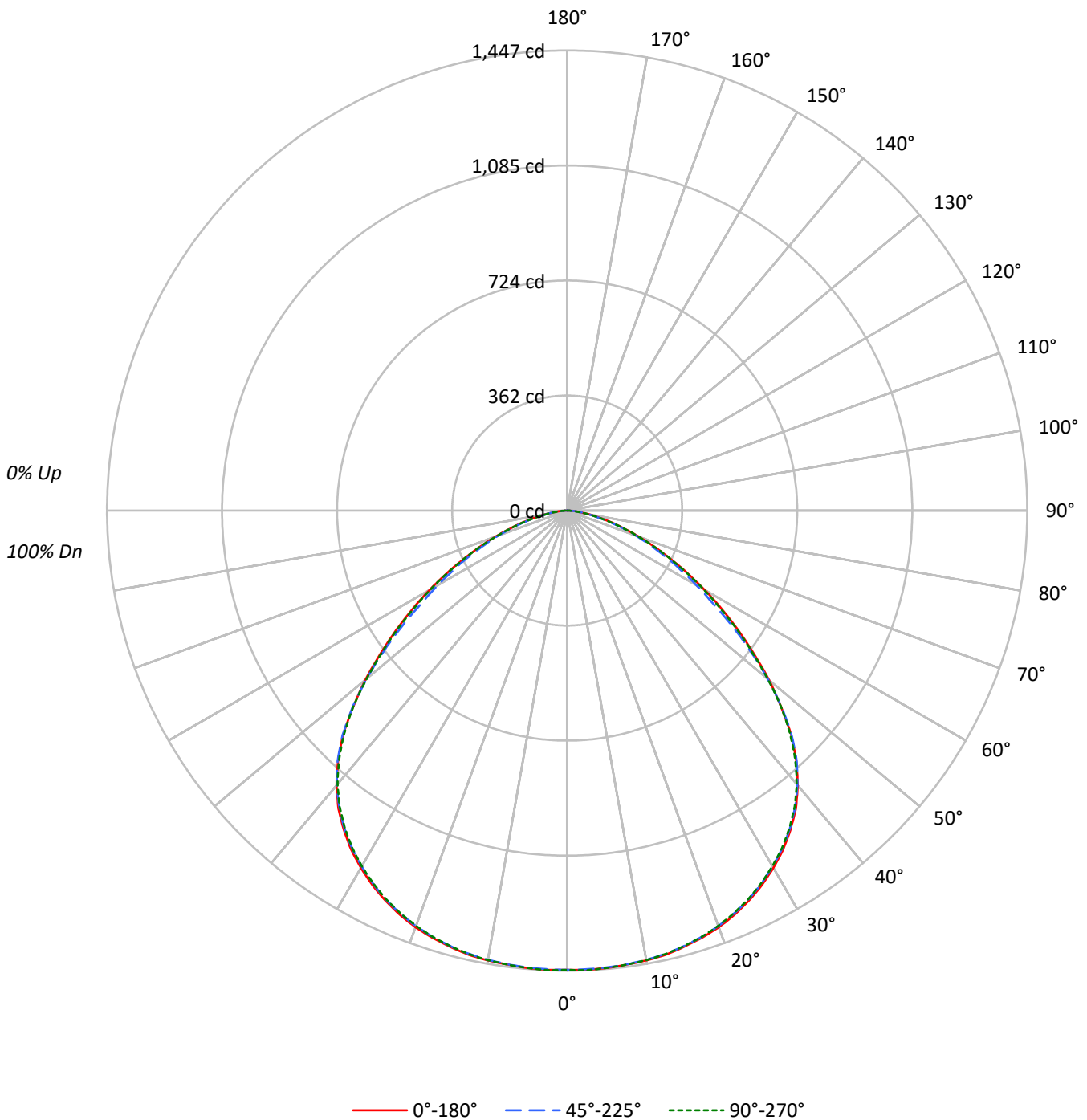
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3792.0 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.32 / 1.4
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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	76	73
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	66	61	56	54
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	34	29	54	41	34	29	41	34	29	40	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3887	3887	3887
5°	3899	3895	3900
10°	3925	3920	3922
15°	3957	3950	3950
20°	3993	3981	3979
25°	4018	4006	4002
30°	4031	4015	4012
35°	4023	4011	4004
40°	3963	3958	3946
45°	3788	3800	3771
50°	3468	3450	3446
55°	3082	2974	3061
60°	2687	2524	2671
65°	2278	2155	2267
70°	1884	1806	1866
75°	1523	1425	1463
80°	1100	1066	1058
85°	716	716	689



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.4	3.6
10°-20°	400.8	10.6
20°-30°	622.0	16.4
30°-40°	762.7	20.1
40°-50°	762.4	20.1
50°-60°	577.5	15.2
60°-70°	346.4	9.1
70°-80°	152.5	4.0
80°-90°	30.2	0.8
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°	1160.2	30.6
0°-40°	1922.9	50.7
0°-60°	3262.9	86.0
0°-90°	3792.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3792.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1444	1444	1444	1444	1444	
5°	1444	1442	1442	1442	1444	138
15°	1420	1419	1418	1417	1418	402
25°	1353	1351	1349	1347	1348	624
35°	1225	1224	1221	1220	1219	765
45°	996	997	999	996	991	762
55°	657	643	634	642	652	589
65°	358	345	338	344	356	358
75°	146	143	137	139	141	156
85°	23	24	23	22	22	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1444.4	1444.4	1444.4	1444.4	1444.4
2.5°	1445.7	1443.5	1443.9	1443.9	1446.6
5°	1443.5	1441.7	1442.1	1441.7	1443.9
7.5°	1440.3	1438.6	1439.0	1438.6	1439.9
10°	1436.3	1434.5	1434.5	1433.6	1435.4
12.5°	1431.0	1428.7	1427.8	1427.4	1428.7
15°	1420.3	1418.9	1418.0	1417.1	1418.0
17.5°	1408.6	1406.4	1405.5	1403.7	1405.5
20°	1394.3	1391.2	1390.3	1389.0	1389.4
22.5°	1375.6	1372.9	1371.6	1369.3	1370.2
25°	1353.3	1350.6	1349.2	1347.0	1347.9
27.5°	1327.4	1325.6	1322.4	1320.7	1321.1
30°	1297.4	1295.6	1292.1	1291.2	1291.2
32.5°	1264.4	1262.1	1259.0	1258.1	1257.7
35°	1224.6	1224.2	1221.1	1220.2	1218.8
37.5°	1181.3	1180.4	1176.8	1176.0	1174.6
40°	1128.2	1127.3	1126.8	1125.0	1123.2
42.5°	1066.5	1067.9	1068.8	1065.2	1061.6
45°	995.5	996.9	998.6	996.0	991.0
47.5°	912.4	917.8	915.1	916.9	912.0
50°	828.5	828.5	824.0	825.8	823.1
52.5°	740.5	733.3	728.0	731.6	735.1
55°	657.0	642.7	633.8	642.2	652.5
57.5°	577.0	560.1	543.5	556.9	569.4
60°	499.3	479.7	469.0	478.8	496.2
62.5°	425.6	411.3	400.6	408.2	422.9
65°	357.7	345.2	338.5	344.3	356.0
67.5°	295.7	287.2	280.5	285.4	294.3
70°	239.4	237.2	229.6	231.8	237.2
72.5°	188.0	187.6	180.9	182.7	185.8
75°	146.5	143.4	137.1	139.3	140.7
77.5°	103.6	105.0	99.1	100.5	100.5
80°	71.0	73.2	68.8	67.9	68.3
82.5°	45.1	45.1	44.7	44.2	42.9
85°	23.2	24.1	23.2	22.3	22.3
87.5°	8.9	8.9	8.9	8.5	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)