

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: P412402

Luminaire Tested: **22PD-45-PB1-L927**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412402
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-L927
Description: 4500 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS
Light Source: -
Ballast/Driver: -

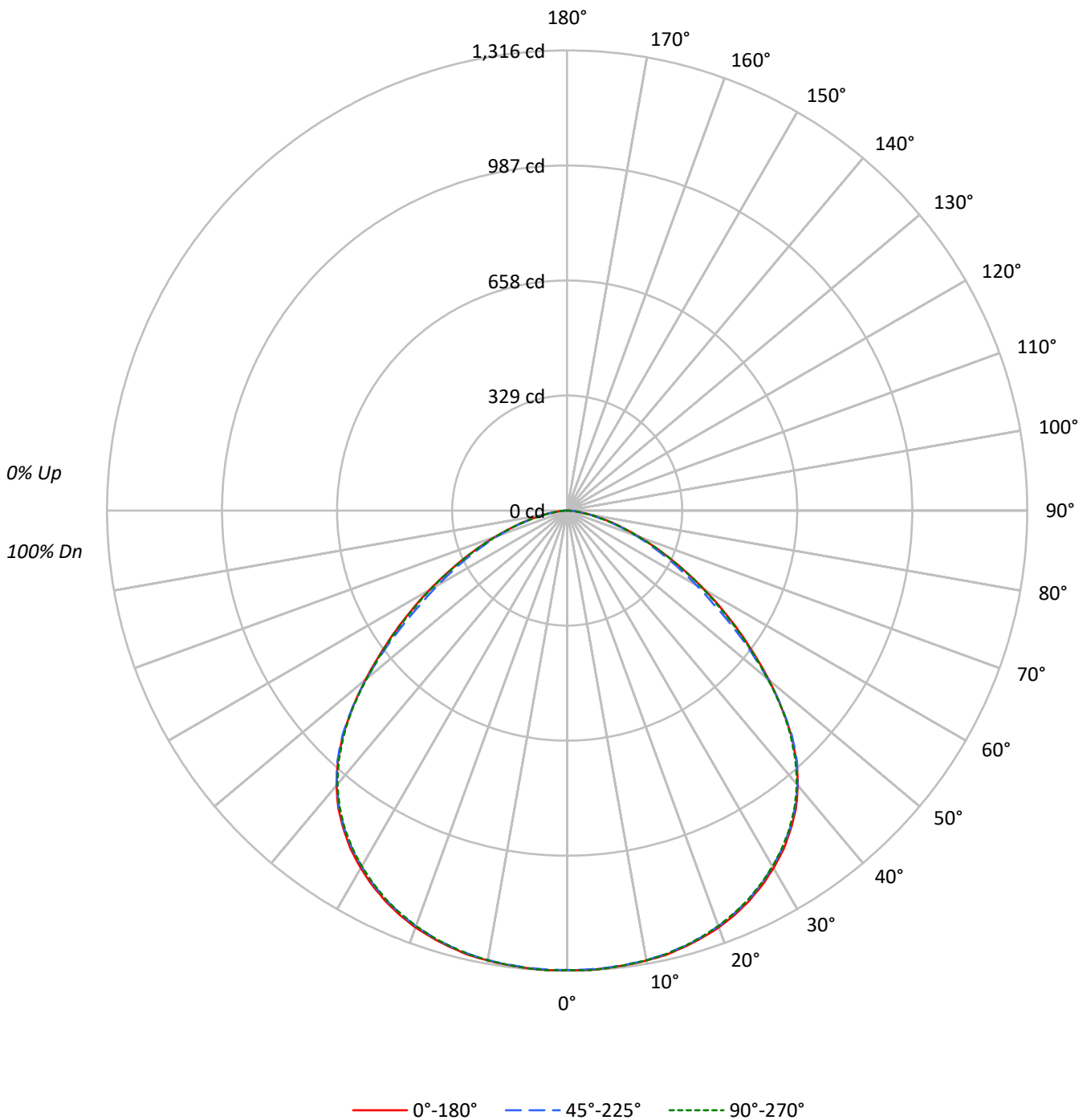
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3450.0 lumens
Efficiency: N/A
Efficacy: 90.3 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 (A_{in}): 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°	3536	3536	3536
5°	3548	3544	3549
10°	3571	3566	3569
15°	3600	3594	3594
20°	3633	3622	3620
25°	3656	3645	3641
30°	3668	3653	3650
35°	3660	3649	3643
40°	3606	3601	3590
45°	3447	3458	3432
50°	3156	3139	3135
55°	2804	2705	2785
60°	2445	2296	2429
65°	2073	1961	2062
70°	1714	1644	1698
75°	1386	1297	1331
80°	1001	970	964
85°	651	651	627



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.0	3.6
10°-20°	364.7	10.6
20°-30°	565.9	16.4
30°-40°	693.9	20.1
40°-50°	693.7	20.1
50°-60°	525.4	15.2
60°-70°	315.1	9.1
70°-80°	138.8	4.0
80°-90°	27.5	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°	1055.6	30.6
0°-40°	1749.5	50.7
0°-60°	2968.6	86.0
0°-90°	3450.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3450.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1314	1314	1314	1314	1314	
5°	1313	1312	1312	1312	1314	125
15°	1292	1291	1290	1289	1290	365
25°	1231	1229	1228	1226	1226	568
35°	1114	1114	1111	1110	1109	696
45°	906	907	909	906	902	693
55°	598	585	577	584	594	536
65°	326	314	308	313	324	326
75°	133	130	125	127	128	142
85°	21	22	21	20	20	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1314.1	1314.1	1314.1	1314.1	1314.1
2.5°	1315.3	1313.3	1313.7	1313.7	1316.1
5°	1313.3	1311.7	1312.1	1311.7	1313.7
7.5°	1310.4	1308.8	1309.2	1308.8	1310.0
10°	1306.8	1305.2	1305.2	1304.3	1306.0
12.5°	1301.9	1299.9	1299.1	1298.7	1299.9
15°	1292.2	1290.9	1290.1	1289.3	1290.1
17.5°	1281.6	1279.6	1278.7	1277.1	1278.7
20°	1268.6	1265.7	1264.9	1263.7	1264.1
22.5°	1251.5	1249.1	1247.9	1245.8	1246.6
25°	1231.2	1228.8	1227.6	1225.5	1226.3
27.5°	1207.6	1206.0	1203.2	1201.5	1202.0
30°	1180.4	1178.8	1175.5	1174.7	1174.7
32.5°	1150.3	1148.3	1145.5	1144.7	1144.3
35°	1114.2	1113.8	1110.9	1110.1	1108.9
37.5°	1074.8	1074.0	1070.7	1069.9	1068.7
40°	1026.4	1025.6	1025.2	1023.6	1021.9
42.5°	970.3	971.6	972.4	969.1	965.9
45°	905.7	906.9	908.6	906.1	901.7
47.5°	830.2	835.0	832.6	834.2	829.7
50°	753.8	753.8	749.7	751.3	748.9
52.5°	673.7	667.2	662.3	665.6	668.8
55°	597.7	584.7	576.6	584.3	593.7
57.5°	525.0	509.5	494.5	506.7	518.1
60°	454.3	436.4	426.7	435.6	451.4
62.5°	387.2	374.2	364.5	371.4	384.8
65°	325.5	314.1	308.0	313.3	323.9
67.5°	269.0	261.3	255.2	259.7	267.8
70°	217.8	215.8	208.9	210.9	215.8
72.5°	171.1	170.7	164.6	166.2	169.0
75°	133.3	130.4	124.7	126.8	128.0
77.5°	94.3	95.5	90.2	91.4	91.4
80°	64.6	66.6	62.6	61.8	62.2
82.5°	41.0	41.0	40.6	40.2	39.0
85°	21.1	21.9	21.1	20.3	20.3
87.5°	8.1	8.1	8.1	7.7	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)