

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: P412396

Luminaire Tested: **22PD-40-PB1-L940**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412396
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-40-PB1-L940
Description: 4000 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

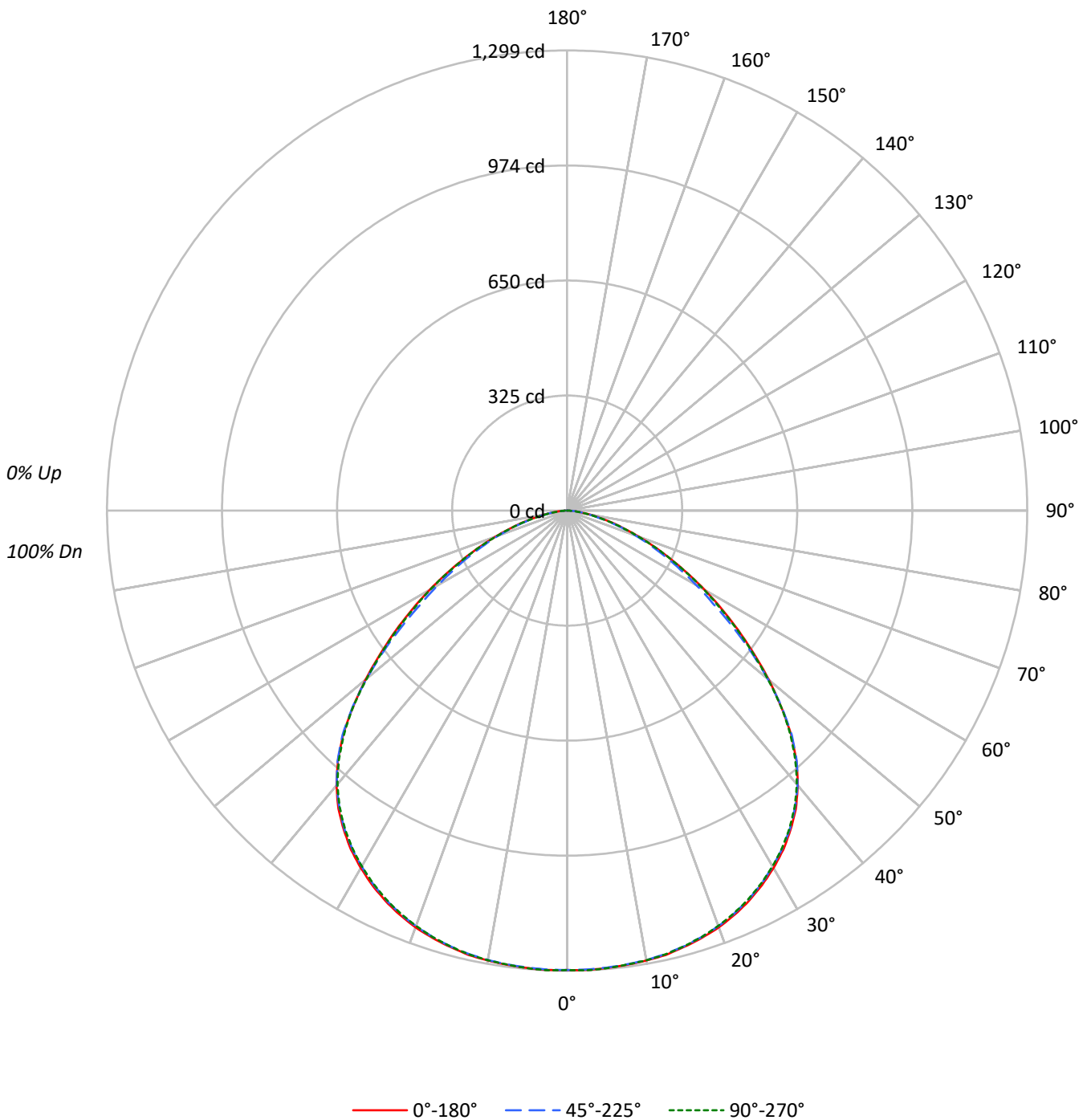
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3405.0 lumens
Efficiency: N/A
Efficacy: 100.7 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): 33.8
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°	3490	3490	3490
5°	3501	3498	3502
10°	3524	3520	3522
15°	3553	3547	3547
20°	3585	3575	3573
25°	3608	3597	3594
30°	3620	3605	3603
35°	3612	3602	3595
40°	3558	3554	3543
45°	3402	3412	3387
50°	3114	3098	3094
55°	2768	2670	2749
60°	2413	2266	2398
65°	2045	1936	2035
70°	1692	1622	1676
75°	1367	1280	1313
80°	989	958	951
85°	645	645	621



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.4	3.6
10°-20°	359.9	10.6
20°-30°	558.5	16.4
30°-40°	684.8	20.1
40°-50°	684.6	20.1
50°-60°	518.6	15.2
60°-70°	311.0	9.1
70°-80°	136.9	4.0
80°-90°	27.2	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°	1041.8	30.6
0°-40°	1726.6	50.7
0°-60°	2929.8	86.0
0°-90°	3405.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3405.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1297	1297	1297	1297	1297	
5°	1296	1295	1295	1295	1297	124
15°	1275	1274	1273	1272	1273	361
25°	1215	1213	1212	1210	1210	560
35°	1100	1099	1096	1096	1094	687
45°	894	895	897	894	890	684
55°	590	577	569	577	586	529
65°	321	310	304	309	320	321
75°	132	129	123	125	126	140
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°	1297.0	1297.0	1297.0	1297.0	1297.0
2.5°	1298.2	1296.2	1296.6	1296.6	1299.0
5°	1296.2	1294.6	1295.0	1294.6	1296.6
7.5°	1293.4	1291.7	1292.1	1291.7	1293.0
10°	1289.7	1288.1	1288.1	1287.3	1288.9
12.5°	1284.9	1282.9	1282.1	1281.7	1282.9
15°	1275.3	1274.1	1273.3	1272.5	1273.3
17.5°	1264.9	1262.9	1262.1	1260.5	1262.1
20°	1252.0	1249.2	1248.4	1247.2	1247.6
22.5°	1235.2	1232.8	1231.6	1229.6	1230.4
25°	1215.1	1212.7	1211.5	1209.5	1210.3
27.5°	1191.9	1190.3	1187.5	1185.9	1186.3
30°	1165.0	1163.4	1160.2	1159.4	1159.4
32.5°	1135.3	1133.3	1130.5	1129.7	1129.3
35°	1099.6	1099.2	1096.4	1095.6	1094.4
37.5°	1060.7	1059.9	1056.7	1055.9	1054.7
40°	1013.0	1012.2	1011.8	1010.2	1008.6
42.5°	957.7	958.9	959.7	956.5	953.3
45°	893.9	895.1	896.7	894.3	889.9
47.5°	819.3	824.1	821.7	823.3	818.9
50°	743.9	743.9	739.9	741.5	739.1
52.5°	664.9	658.5	653.7	656.9	660.1
55°	589.9	577.1	569.1	576.7	585.9
57.5°	518.1	502.9	488.1	500.1	511.3
60°	448.4	430.7	421.1	429.9	445.6
62.5°	382.2	369.4	359.7	366.5	379.8
65°	321.2	310.0	304.0	309.2	319.6
67.5°	265.5	257.9	251.9	256.3	264.3
70°	215.0	213.0	206.1	208.1	213.0
72.5°	168.8	168.4	162.4	164.0	166.8
75°	131.5	128.7	123.1	125.1	126.3
77.5°	93.0	94.2	89.0	90.2	90.2
80°	63.8	65.8	61.8	61.0	61.4
82.5°	40.5	40.5	40.1	39.7	38.5
85°	20.9	21.7	20.9	20.1	20.1
87.5°	8.0	8.0	8.0	7.6	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)