

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: P413089

Luminaire Tested: **22PD-45-PC3-L940**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413089
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-15)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22PD-45-PC3-L940
Description: 4500 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

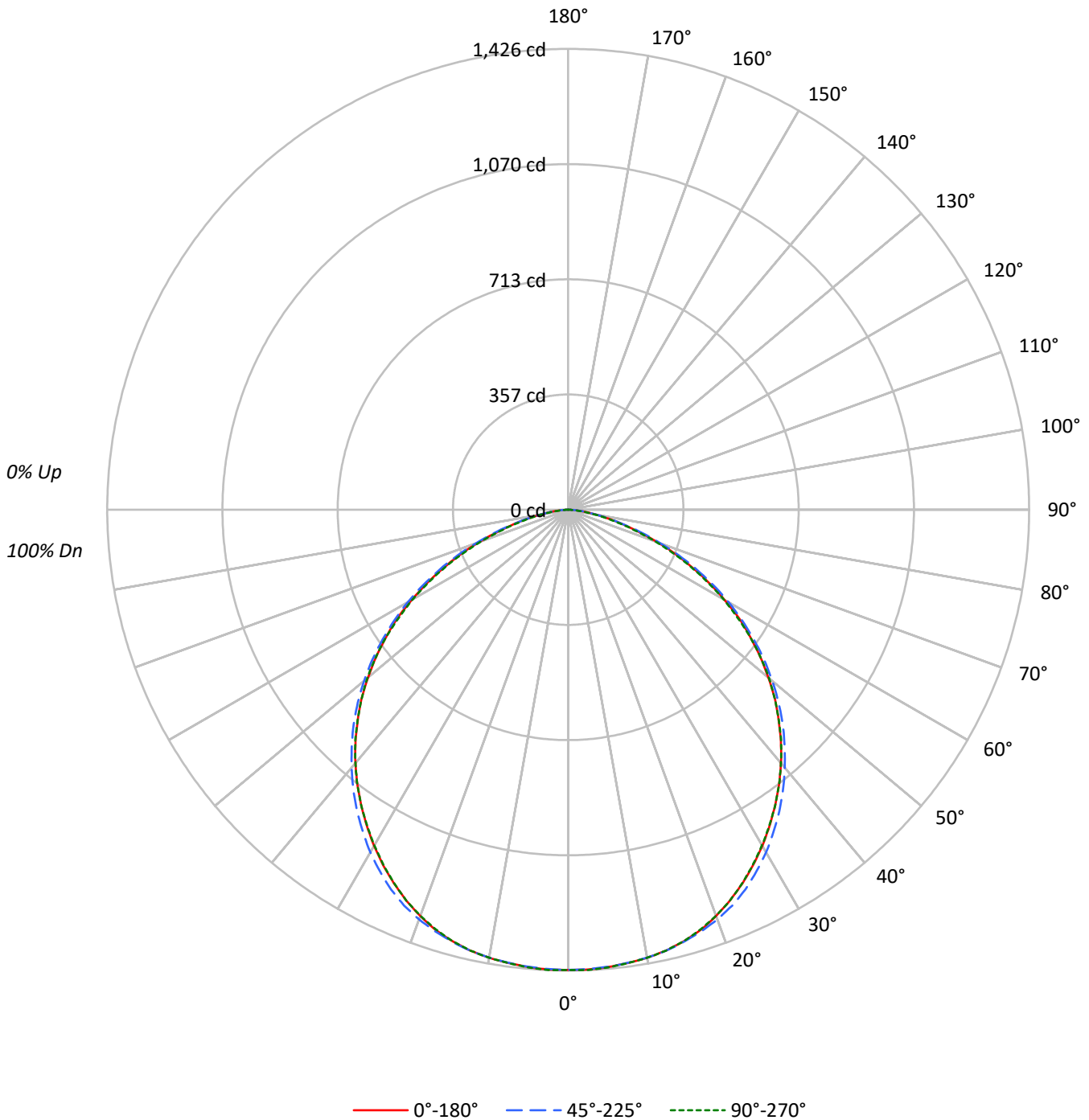
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3826.0 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
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	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	91	81	73	67	89	80	72	67	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	49	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3832	3832	3832
5°	3837	3835	3840
10°	3847	3846	3847
15°	3852	3857	3850
20°	3832	3863	3829
25°	3787	3849	3785
30°	3732	3805	3726
35°	3667	3740	3667
40°	3598	3661	3598
45°	3503	3572	3508
50°	3383	3450	3396
55°	3226	3290	3226
60°	3009	3084	2989
65°	2700	2795	2665
70°	2309	2392	2242
75°	1832	1884	1738
80°	1313	1362	1249
85°	868	895	812



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.1	3.5
10°-20°	390.3	10.2
20°-30°	592.2	15.5
30°-40°	707.2	18.5
40°-50°	719.2	18.8
50°-60°	622.1	16.3
60°-70°	428.1	11.2
70°-80°	194.3	5.1
80°-90°	37.6	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°	1117.6	29.2
0°-40°	1824.8	47.7
0°-60°	3166.1	82.8
0°-90°	3826.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3826.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1424	1424	1424	1424	1424	
5°	1421	1419	1420	1420	1422	135
15°	1382	1383	1384	1382	1382	390
25°	1276	1287	1296	1285	1275	588
35°	1116	1136	1138	1134	1116	698
45°	920	937	939	938	922	710
55°	688	699	701	700	688	614
65°	424	436	439	435	419	421
75°	176	183	181	179	167	189
85°	28	30	29	28	26	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1424.2	1424.2	1424.2	1424.2	1424.2
2.5°	1424.2	1422.4	1422.8	1423.3	1426.0
5°	1420.6	1419.2	1419.7	1419.7	1421.5
7.5°	1414.7	1414.2	1414.2	1413.8	1415.1
10°	1407.9	1407.0	1407.4	1407.0	1407.9
12.5°	1397.5	1397.5	1397.9	1396.6	1397.5
15°	1382.5	1383.4	1384.3	1382.1	1382.1
17.5°	1363.5	1365.7	1368.0	1363.9	1361.7
20°	1338.1	1343.6	1349.0	1342.6	1337.2
22.5°	1308.7	1317.7	1325.9	1315.9	1308.7
25°	1275.6	1286.9	1296.4	1284.7	1274.7
27.5°	1239.8	1252.5	1261.6	1251.6	1238.0
30°	1200.9	1216.3	1224.4	1214.9	1199.1
32.5°	1159.2	1177.3	1182.3	1176.4	1158.3
35°	1116.2	1136.1	1138.4	1134.3	1116.2
37.5°	1071.3	1090.3	1092.1	1089.9	1071.3
40°	1024.2	1041.9	1042.3	1042.3	1024.2
42.5°	973.9	991.1	991.1	990.7	975.3
45°	920.5	937.2	938.6	937.7	921.8
47.5°	867.5	880.1	882.4	880.6	866.6
50°	808.1	821.3	824.0	822.2	811.3
52.5°	749.2	761.5	764.2	762.8	750.6
55°	687.6	699.4	701.2	699.9	687.6
57.5°	628.3	636.0	637.8	635.1	619.7
60°	559.0	569.9	573.0	569.9	555.4
62.5°	491.9	503.7	506.4	501.9	486.5
65°	424.0	435.8	438.9	435.3	418.6
67.5°	359.7	368.3	371.0	366.9	351.5
70°	293.5	304.4	304.0	298.5	284.9
72.5°	228.3	243.3	240.5	237.4	222.4
75°	176.2	183.0	181.2	179.4	167.2
77.5°	125.9	134.1	129.6	130.0	119.6
80°	84.7	92.4	87.9	86.1	80.6
82.5°	53.9	57.1	56.2	55.3	50.3
85°	28.1	29.9	29.0	28.1	26.3
87.5°	10.9	11.8	10.9	10.9	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)