

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: P413088

Luminaire Tested: **22PD-45-PC3-L935**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413088
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-L935
Description: 4500 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

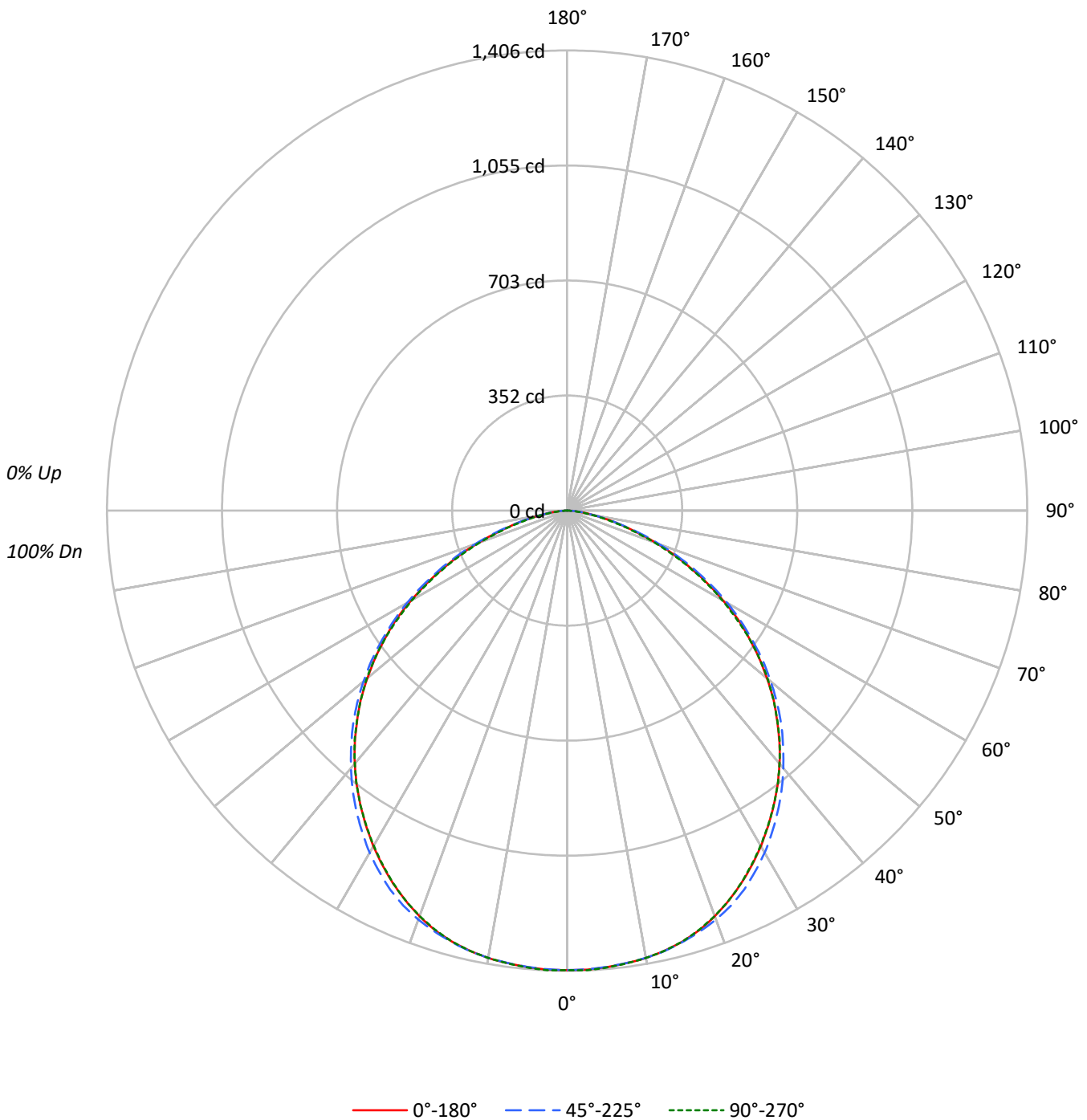
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3772.0 lumens
Efficiency: N/A
Efficacy: 98.7 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74
3	91	81	73	67	89	80	72	67	77	70	65	74	69	64	71	67	63
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54
5	77	65	56	49	75	63	55	49	61	54	49	59	53	48	58	52	47
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3778	3778	3778
5°	3783	3781	3786
10°	3793	3792	3793
15°	3797	3802	3796
20°	3778	3808	3775
25°	3734	3795	3731
30°	3679	3751	3673
35°	3615	3687	3615
40°	3547	3610	3547
45°	3454	3521	3459
50°	3335	3401	3348
55°	3180	3243	3180
60°	2966	3040	2947
65°	2662	2755	2628
70°	2277	2358	2210
75°	1806	1857	1713
80°	1294	1342	1232
85°	855	883	800



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.2	3.5
10°-20°	384.8	10.2
20°-30°	583.8	15.5
30°-40°	697.2	18.5
40°-50°	709.0	18.8
50°-60°	613.3	16.3
60°-70°	422.0	11.2
70°-80°	191.5	5.1
80°-90°	37.1	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°	1101.8	29.2
0°-40°	1799.0	47.7
0°-60°	3121.3	82.8
0°-90°	3772.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3772.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1404	1404	1404	1404	1404	
5°	1400	1399	1400	1400	1401	133
15°	1363	1364	1365	1363	1363	384
25°	1258	1269	1278	1266	1257	579
35°	1100	1120	1122	1118	1100	688
45°	908	924	925	924	909	700
55°	678	690	691	690	678	606
65°	418	430	433	429	413	415
75°	174	180	179	177	165	187
85°	28	30	29	28	26	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1404.1	1404.1	1404.1	1404.1	1404.1
2.5°	1404.1	1402.3	1402.7	1403.2	1405.9
5°	1400.5	1399.2	1399.6	1399.6	1401.4
7.5°	1394.7	1394.3	1394.3	1393.8	1395.2
10°	1388.0	1387.1	1387.6	1387.1	1388.0
12.5°	1377.7	1377.7	1378.2	1376.8	1377.7
15°	1363.0	1363.9	1364.8	1362.6	1362.6
17.5°	1344.2	1346.5	1348.7	1344.7	1342.5
20°	1319.2	1324.6	1329.9	1323.7	1318.3
22.5°	1290.2	1299.1	1307.2	1297.3	1290.2
25°	1257.6	1268.8	1278.1	1266.5	1256.7
27.5°	1222.3	1234.8	1243.8	1233.9	1220.5
30°	1183.9	1199.1	1207.1	1197.8	1182.1
32.5°	1142.8	1160.7	1165.6	1159.8	1141.9
35°	1100.4	1120.1	1122.3	1118.3	1100.4
37.5°	1056.2	1074.9	1076.7	1074.5	1056.2
40°	1009.7	1027.2	1027.6	1027.6	1009.7
42.5°	960.2	977.1	977.1	976.7	961.5
45°	907.5	924.0	925.3	924.4	908.8
47.5°	855.2	867.7	870.0	868.2	854.3
50°	796.7	809.7	812.3	810.6	799.8
52.5°	738.7	750.7	753.4	752.1	740.0
55°	677.9	689.5	691.3	690.0	677.9
57.5°	619.4	627.0	628.8	626.1	610.9
60°	551.1	561.8	564.9	561.8	547.5
62.5°	485.0	496.6	499.3	494.8	479.6
65°	418.0	429.6	432.7	429.2	412.7
67.5°	354.6	363.1	365.8	361.7	346.6
70°	289.4	300.1	299.7	294.3	280.9
72.5°	225.1	239.8	237.1	234.0	219.3
75°	173.7	180.4	178.6	176.9	164.8
77.5°	124.2	132.2	127.7	128.2	117.9
80°	83.5	91.1	86.6	84.9	79.5
82.5°	53.1	56.3	55.4	54.5	49.6
85°	27.7	29.5	28.6	27.7	25.9
87.5°	10.7	11.6	10.7	10.7	9.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)