

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: P412857

Luminaire Tested: **24PD-45-PP3-L830**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412857
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-45-PP3-L830
Description: 4500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

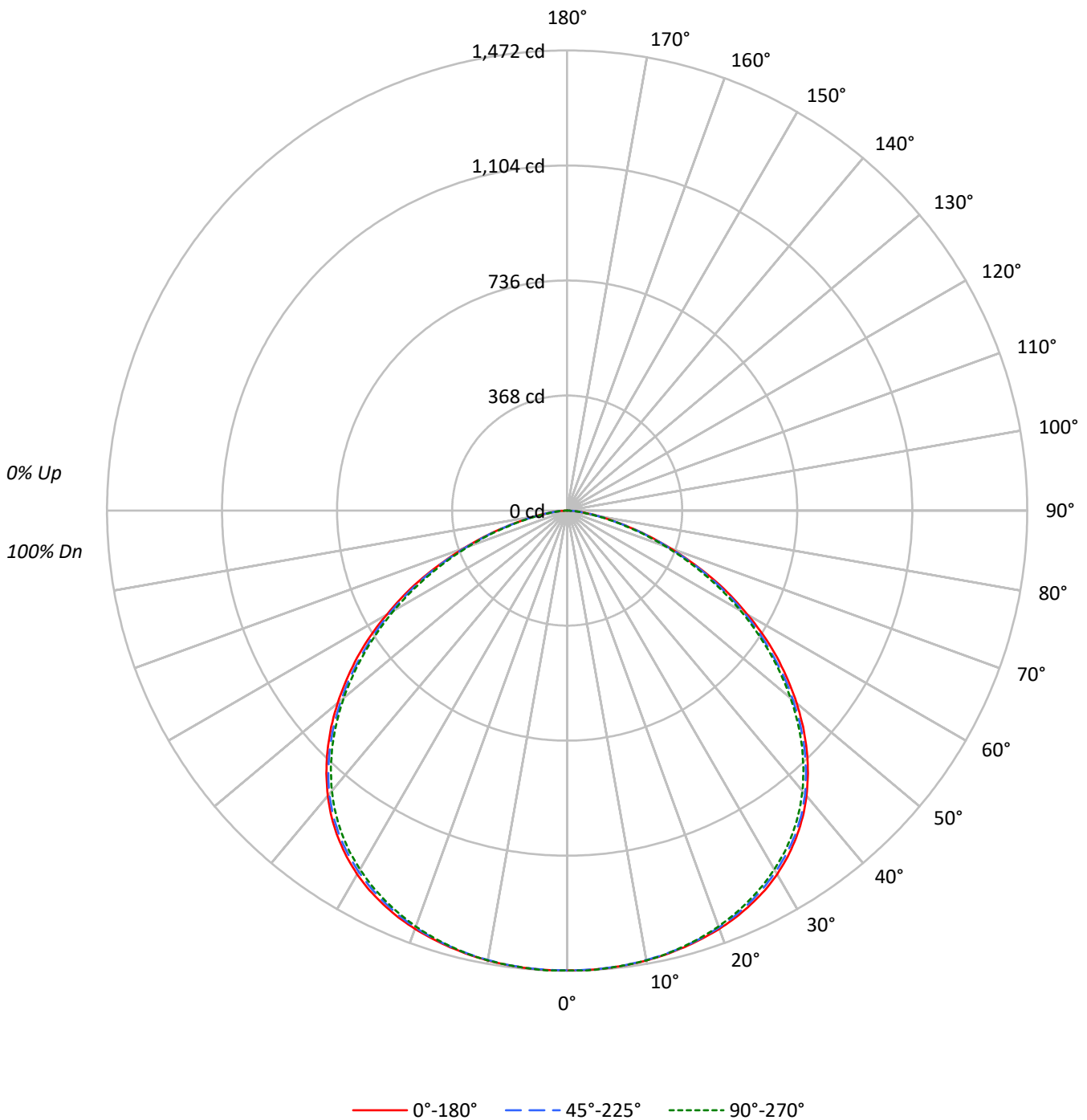
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4280.0 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.33 / 1.43
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33.4
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	109	105	101	97	107	103	99	96	98	95	93		95	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80	77	74	71
3	91	81	73	66	89	79	72	66	76	70	65		73	68	64		71	66	63	60
4	83	72	63	56	81	70	62	56	68	61	55		65	59	54		63	58	54	52
5	77	64	55	49	75	63	54	48	61	53	48		59	52	47		57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42		53	46	41		52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37		48	42	37		47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33		44	38	33		43	37	32	31
9	57	44	35	30	55	43	35	30	42	35	30		41	34	29		40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1979	1979	1979
5°	1984	1984	1985
10°	1997	1994	1996
15°	2014	2011	2010
20°	2039	2032	2027
25°	2064	2053	2044
30°	2087	2073	2059
35°	2099	2086	2067
40°	2093	2080	2057
45°	2063	2043	2020
50°	2006	1974	1954
55°	1923	1877	1853
60°	1792	1761	1725
65°	1625	1592	1546
70°	1386	1361	1317
75°	1083	1072	1020
80°	799	766	722
85°	482	482	449



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.9	3.3
10°-20°	408.4	9.5
20°-30°	638.3	14.9
30°-40°	793.3	18.5
40°-50°	826.5	19.3
50°-60°	717.2	16.8
60°-70°	493.1	11.5
70°-80°	222.6	5.2
80°-90°	40.8	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°	1186.6	27.7
0°-40°	1979.8	46.3
0°-60°	3523.5	82.3
0°-90°	4280.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4280.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1471	1471	1471	1471	1471	
5°	1469	1470	1469	1468	1470	140
15°	1446	1446	1444	1443	1443	409
25°	1390	1390	1383	1378	1377	641
35°	1278	1278	1270	1263	1258	798
45°	1084	1085	1074	1065	1062	835
55°	820	815	800	791	790	731
65°	510	508	500	488	486	504
75°	208	209	206	201	196	227
85°	31	31	31	31	29	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1470.9	1470.9	1470.9	1470.9	1470.9
2.5°	1471.3	1471.3	1470.5	1469.2	1472.2
5°	1469.2	1469.6	1468.8	1467.5	1469.6
7.5°	1466.2	1466.6	1465.4	1464.1	1465.8
10°	1461.5	1461.1	1459.8	1458.9	1461.1
12.5°	1454.7	1454.2	1452.9	1452.1	1453.8
15°	1446.1	1446.1	1444.0	1442.7	1443.1
17.5°	1435.8	1435.8	1432.8	1429.9	1430.7
20°	1423.9	1423.4	1419.2	1416.2	1415.7
22.5°	1408.9	1408.9	1402.9	1399.1	1397.8
25°	1390.5	1390.1	1383.2	1377.7	1376.8
27.5°	1369.5	1368.7	1360.6	1355.0	1352.9
30°	1343.5	1342.6	1334.0	1328.1	1325.5
32.5°	1312.7	1313.9	1304.1	1297.3	1294.7
35°	1277.6	1277.6	1269.9	1262.6	1258.3
37.5°	1237.4	1237.4	1230.1	1222.8	1217.7
40°	1191.6	1192.0	1184.3	1175.4	1171.1
42.5°	1140.3	1141.1	1130.9	1123.6	1118.9
45°	1084.3	1084.7	1073.6	1065.4	1061.6
47.5°	1023.5	1022.7	1010.3	1003.4	999.6
50°	958.5	956.8	943.1	936.7	933.3
52.5°	890.5	887.1	875.1	865.7	862.7
55°	819.9	815.2	800.3	790.8	790.0
57.5°	746.4	740.8	728.4	719.4	716.0
60°	666.0	664.7	654.4	643.7	641.1
62.5°	590.7	586.8	577.8	565.0	563.7
65°	510.3	508.1	500.0	488.0	485.5
67.5°	427.3	429.4	422.6	411.9	408.5
70°	352.4	353.7	346.0	336.2	334.9
72.5°	277.2	279.3	272.9	266.5	265.2
75°	208.3	209.2	206.2	200.6	196.3
77.5°	148.0	151.0	147.6	143.7	140.3
80°	103.1	98.4	98.8	97.1	93.2
82.5°	62.0	59.9	59.5	57.7	56.0
85°	31.2	30.8	31.2	30.8	29.1
87.5°	10.3	11.1	11.5	11.5	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)