

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: P412873

Luminaire Tested: **24PD-50-PP3-L940**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412873
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-50-PP3-L940
Description: 5000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

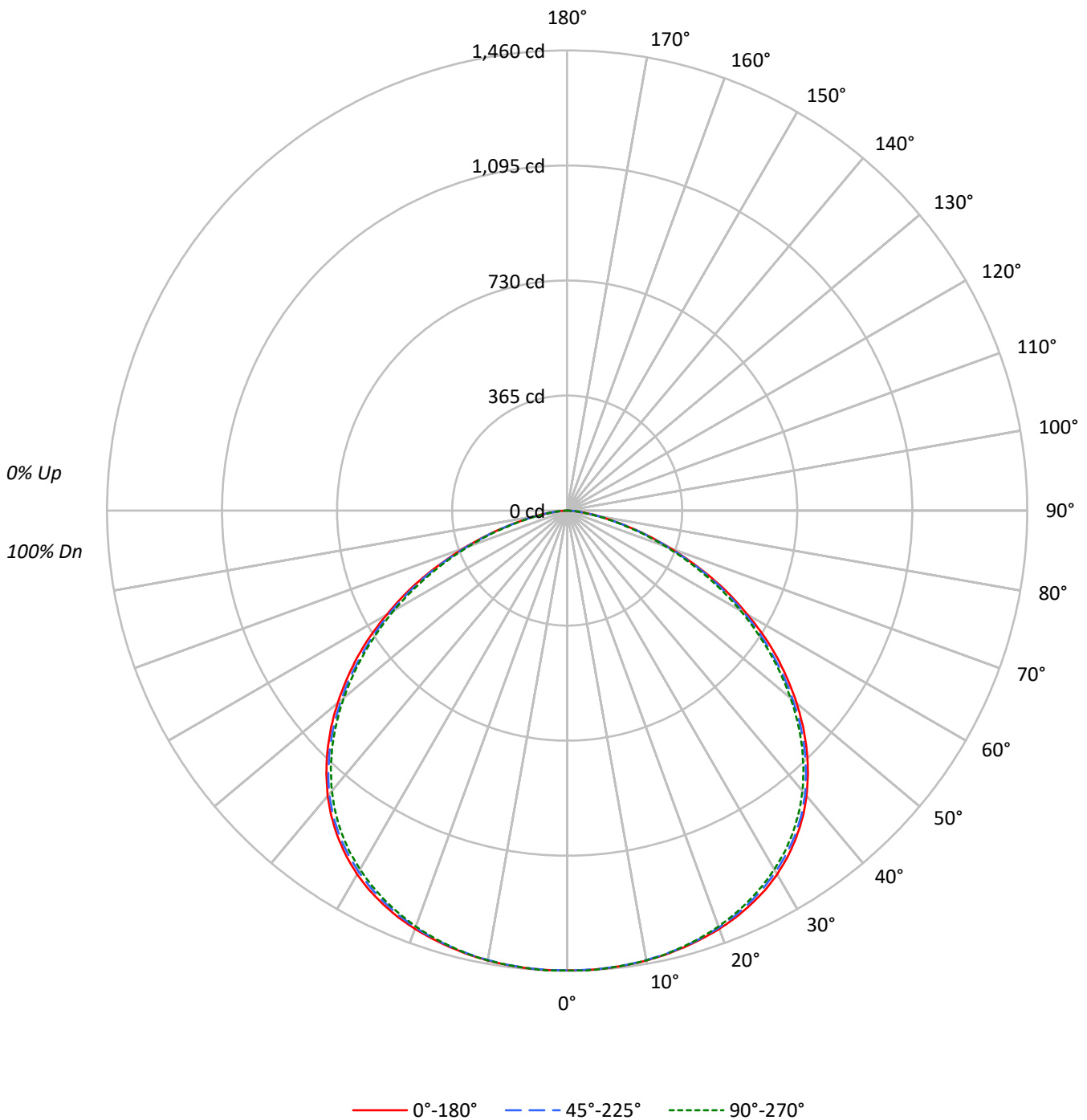
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4245.0 lumens
Efficiency: N/A
Efficacy: 113.2 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): 37.5
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°	1963	1963	1963
5°	1968	1968	1969
10°	1981	1978	1980
15°	1998	1995	1994
20°	2022	2015	2011
25°	2047	2037	2027
30°	2070	2056	2042
35°	2081	2069	2050
40°	2076	2063	2040
45°	2046	2026	2003
50°	1990	1958	1937
55°	1908	1862	1838
60°	1777	1747	1711
65°	1611	1579	1533
70°	1375	1350	1307
75°	1074	1063	1012
80°	792	759	717
85°	479	479	445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.8	3.3
10°-20°	405.0	9.5
20°-30°	633.1	14.9
30°-40°	786.8	18.5
40°-50°	819.7	19.3
50°-60°	711.3	16.8
60°-70°	489.1	11.5
70°-80°	220.7	5.2
80°-90°	40.5	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°	1176.9	27.7
0°-40°	1963.6	46.3
0°-60°	3494.7	82.3
0°-90°	4245.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4245.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1459	1459	1459	1459	1459	
5°	1457	1458	1457	1456	1458	139
15°	1434	1434	1432	1431	1431	406
25°	1379	1379	1372	1366	1366	636
35°	1267	1267	1260	1252	1248	792
45°	1075	1076	1065	1057	1053	828
55°	813	809	794	784	784	725
65°	506	504	496	484	482	499
75°	207	207	204	199	195	225
85°	31	30	31	30	29	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1458.9	1458.9	1458.9	1458.9	1458.9
2.5°	1459.3	1459.3	1458.5	1457.2	1460.2
5°	1457.2	1457.6	1456.8	1455.5	1457.6
7.5°	1454.2	1454.6	1453.4	1452.1	1453.8
10°	1449.6	1449.1	1447.9	1447.0	1449.1
12.5°	1442.8	1442.3	1441.1	1440.2	1441.9
15°	1434.3	1434.3	1432.2	1430.9	1431.3
17.5°	1424.1	1424.1	1421.1	1418.2	1419.0
20°	1412.2	1411.8	1407.6	1404.6	1404.2
22.5°	1397.4	1397.4	1391.4	1387.6	1386.3
25°	1379.1	1378.7	1371.9	1366.4	1365.6
27.5°	1358.3	1357.5	1349.4	1343.9	1341.8
30°	1332.5	1331.6	1323.1	1317.2	1314.6
32.5°	1301.9	1303.2	1293.4	1286.7	1284.1
35°	1267.1	1267.1	1259.5	1252.3	1248.0
37.5°	1227.3	1227.3	1220.0	1212.8	1207.7
40°	1181.9	1182.3	1174.7	1165.7	1161.5
42.5°	1131.0	1131.8	1121.6	1114.4	1109.8
45°	1075.4	1075.8	1064.8	1056.7	1052.9
47.5°	1015.2	1014.3	1002.0	995.2	991.4
50°	950.7	949.0	935.4	929.0	925.6
52.5°	883.2	879.8	867.9	858.6	855.6
55°	813.2	808.6	793.7	784.4	783.5
57.5°	740.3	734.7	722.4	713.5	710.1
60°	660.5	659.2	649.1	638.4	635.9
62.5°	585.8	582.0	573.1	560.4	559.1
65°	506.1	504.0	495.9	484.0	481.5
67.5°	423.8	425.9	419.1	408.5	405.1
70°	349.6	350.8	343.2	333.4	332.2
72.5°	274.9	277.0	270.7	264.3	263.0
75°	206.6	207.4	204.5	199.0	194.7
77.5°	146.8	149.7	146.4	142.5	139.1
80°	102.2	97.6	98.0	96.3	92.5
82.5°	61.5	59.4	59.0	57.3	55.6
85°	31.0	30.5	31.0	30.5	28.8
87.5°	10.2	11.0	11.5	11.5	10.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)