

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: P412872

Luminaire Tested: **24PD-50-PP3-L935**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412872
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-L935
Description: 5000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

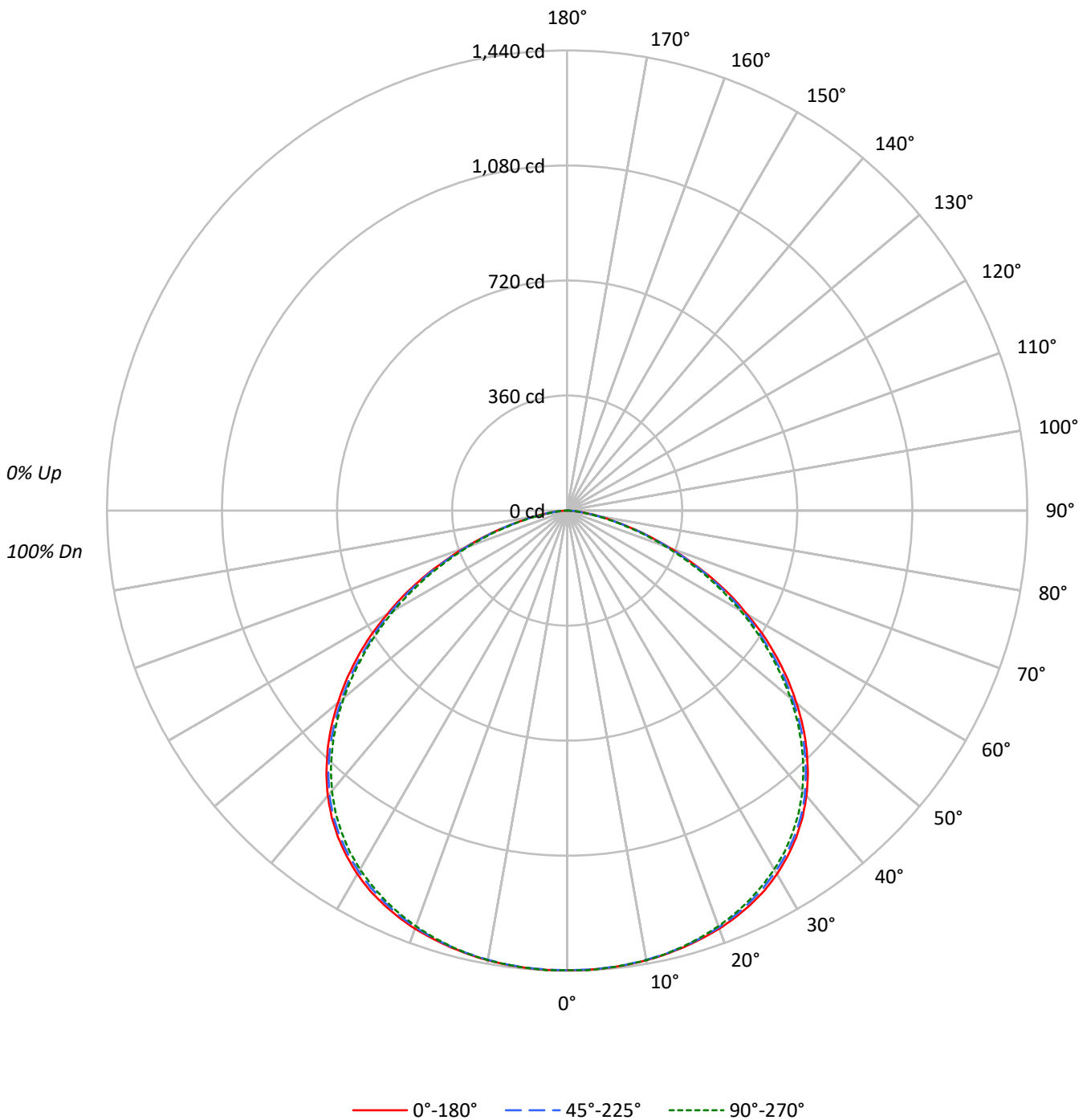
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4185.0 lumens
Efficiency: N/A
Efficacy: 111.6 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°	1935	1935	1935
5°	1940	1940	1941
10°	1953	1950	1952
15°	1970	1967	1966
20°	1994	1987	1982
25°	2018	2008	1999
30°	2041	2027	2014
35°	2052	2040	2021
40°	2047	2034	2011
45°	2017	1997	1975
50°	1962	1930	1910
55°	1881	1836	1812
60°	1752	1722	1687
65°	1588	1557	1511
70°	1356	1331	1288
75°	1059	1048	998
80°	781	748	707
85°	471	471	438



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.8	3.3
10°-20°	399.3	9.5
20°-30°	624.1	14.9
30°-40°	775.7	18.5
40°-50°	808.2	19.3
50°-60°	701.3	16.8
60°-70°	482.2	11.5
70°-80°	217.6	5.2
80°-90°	39.9	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°	1160.2	27.7
0°-40°	1935.9	46.3
0°-60°	3445.3	82.3
0°-90°	4185.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4185.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1438	1438	1438	1438	1438	
5°	1437	1437	1436	1435	1437	137
15°	1414	1414	1412	1411	1411	400
25°	1360	1359	1352	1347	1346	627
35°	1249	1249	1242	1235	1230	781
45°	1060	1061	1050	1042	1038	816
55°	802	797	782	773	772	714
65°	499	497	489	477	475	492
75°	204	204	202	196	192	222
85°	30	30	30	30	28	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1438.3	1438.3	1438.3	1438.3	1438.3
2.5°	1438.7	1438.7	1437.8	1436.6	1439.5
5°	1436.6	1437.0	1436.2	1434.9	1437.0
7.5°	1433.7	1434.1	1432.8	1431.6	1433.2
10°	1429.1	1428.6	1427.4	1426.6	1428.6
12.5°	1422.4	1422.0	1420.7	1419.9	1421.5
15°	1414.0	1414.0	1411.9	1410.7	1411.1
17.5°	1404.0	1404.0	1401.0	1398.1	1398.9
20°	1392.3	1391.8	1387.7	1384.7	1384.3
22.5°	1377.6	1377.6	1371.8	1368.0	1366.7
25°	1359.6	1359.2	1352.5	1347.1	1346.3
27.5°	1339.1	1338.3	1330.4	1324.9	1322.8
30°	1313.6	1312.8	1304.4	1298.6	1296.1
32.5°	1283.5	1284.8	1275.2	1268.5	1266.0
35°	1249.2	1249.2	1241.7	1234.6	1230.4
37.5°	1209.9	1209.9	1202.8	1195.7	1190.7
40°	1165.2	1165.6	1158.1	1149.3	1145.1
42.5°	1115.0	1115.8	1105.8	1098.7	1094.1
45°	1060.2	1060.6	1049.7	1041.8	1038.0
47.5°	1000.8	1000.0	987.8	981.1	977.4
50°	937.2	935.6	922.2	915.9	912.6
52.5°	870.7	867.4	855.7	846.5	843.6
55°	801.7	797.1	782.5	773.3	772.5
57.5°	729.8	724.4	712.2	703.4	700.1
60°	651.2	649.9	639.9	629.4	626.9
62.5°	577.6	573.8	565.0	552.5	551.2
65°	498.9	496.8	488.9	477.2	474.7
67.5°	417.8	419.9	413.2	402.7	399.4
70°	344.6	345.9	338.3	328.7	327.5
72.5°	271.0	273.1	266.8	260.6	259.3
75°	203.7	204.5	201.6	196.1	192.0
77.5°	144.7	147.6	144.3	140.5	137.2
80°	100.8	96.2	96.6	94.9	91.2
82.5°	60.6	58.6	58.1	56.5	54.8
85°	30.5	30.1	30.5	30.1	28.4
87.5°	10.0	10.9	11.3	11.3	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)