

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: P412530

Luminaire Tested: **24PD-50-PB1-L935**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412530
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-45)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-50-PB1-L935
Description: 5000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

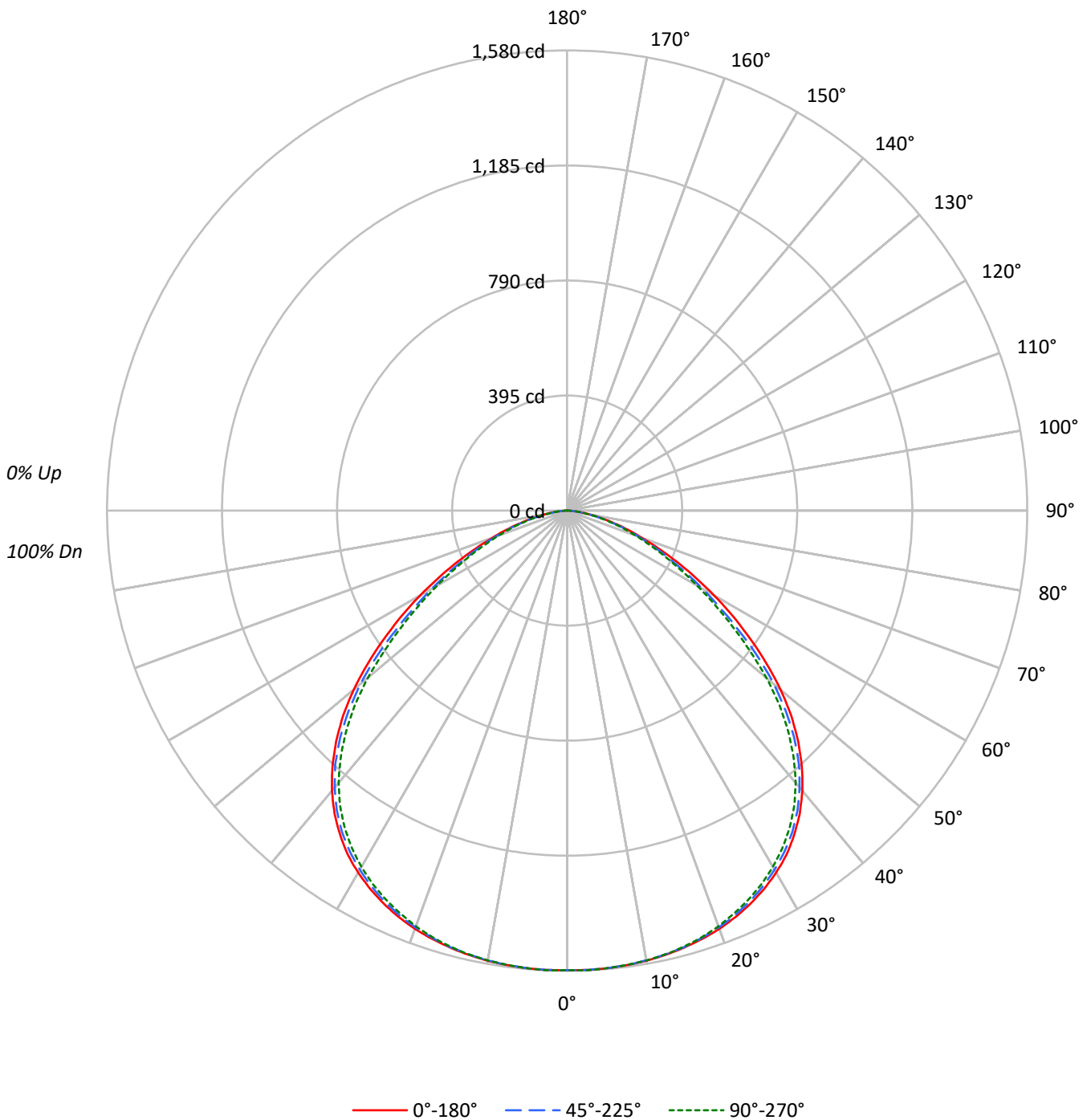
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4199.0 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.32 / 1.41
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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	70	59	51	45	57	50	44	55	49	44	54	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2123	2123	2123
5°	2130	2130	2130
10°	2145	2142	2143
15°	2164	2161	2159
20°	2188	2181	2175
25°	2211	2200	2188
30°	2230	2212	2195
35°	2233	2213	2186
40°	2207	2181	2144
45°	2135	2096	2042
50°	2002	1940	1869
55°	1799	1692	1623
60°	1567	1442	1387
65°	1318	1220	1167
70°	1074	1020	979
75°	861	831	796
80°	661	609	593
85°	414	400	400



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.2	3.6
10°-20°	438.5	10.4
20°-30°	683.2	16.3
30°-40°	840.4	20.0
40°-50°	844.2	20.1
50°-60°	650.6	15.5
60°-70°	386.3	9.2
70°-80°	172.0	4.1
80°-90°	33.6	0.8
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°	1271.9	30.3
0°-40°	2112.4	50.3
0°-60°	3607.2	85.9
0°-90°	4199.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4199.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1578	1578	1578	1578	1578	
5°	1577	1578	1577	1576	1577	150
15°	1553	1553	1551	1549	1550	439
25°	1489	1489	1482	1475	1474	687
35°	1359	1357	1348	1336	1331	849
45°	1122	1119	1102	1083	1073	861
55°	767	752	722	700	692	686
65°	414	396	383	368	366	414
75°	166	162	160	154	153	179
85°	27	26	26	25	26	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1578.0	1578.0	1578.0	1578.0	1578.0
2.5°	1578.9	1578.5	1578.5	1576.8	1580.1
5°	1577.2	1577.6	1577.2	1575.5	1577.2
7.5°	1573.9	1574.3	1573.4	1571.8	1573.4
10°	1569.7	1569.7	1568.0	1567.2	1568.4
12.5°	1562.6	1562.6	1560.9	1559.6	1560.9
15°	1553.4	1553.4	1551.3	1548.8	1550.0
17.5°	1542.1	1542.1	1538.7	1535.4	1536.2
20°	1528.3	1527.8	1523.2	1518.6	1519.1
22.5°	1510.7	1510.3	1504.4	1499.0	1497.3
25°	1489.4	1489.0	1481.8	1475.1	1473.5
27.5°	1464.7	1463.0	1455.1	1447.5	1445.9
30°	1435.4	1434.2	1423.7	1416.2	1412.8
32.5°	1401.5	1398.2	1388.6	1379.4	1374.8
35°	1359.3	1357.2	1347.6	1336.3	1330.9
37.5°	1311.6	1309.5	1299.1	1286.5	1280.2
40°	1256.4	1254.7	1241.8	1228.8	1220.9
42.5°	1192.8	1191.6	1177.8	1159.8	1151.4
45°	1122.2	1119.2	1101.7	1083.3	1073.2
47.5°	1043.5	1038.5	1017.2	999.6	988.7
50°	956.5	949.8	926.8	904.2	893.0
52.5°	862.4	850.7	826.9	800.9	790.1
55°	767.1	752.4	721.5	699.7	691.8
57.5°	673.8	652.5	623.2	607.7	599.8
60°	582.2	558.8	535.8	520.7	515.3
62.5°	494.8	475.1	455.5	440.4	437.1
65°	414.1	396.1	383.1	368.5	366.4
67.5°	338.8	330.4	318.7	306.2	304.5
70°	273.1	269.8	259.3	251.8	248.9
72.5°	217.9	214.6	207.0	201.6	200.8
75°	165.6	162.3	159.8	154.3	153.1
77.5°	117.9	118.4	116.3	113.3	114.2
80°	85.3	80.3	78.6	77.0	76.5
82.5°	52.3	49.4	48.1	47.7	48.5
85°	26.8	25.5	25.9	24.7	25.9
87.5°	9.2	9.2	9.6	9.2	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)