

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: P412531

Luminaire Tested: **24PD-50-PB1-L940**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412531
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-L940
Description: 5000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

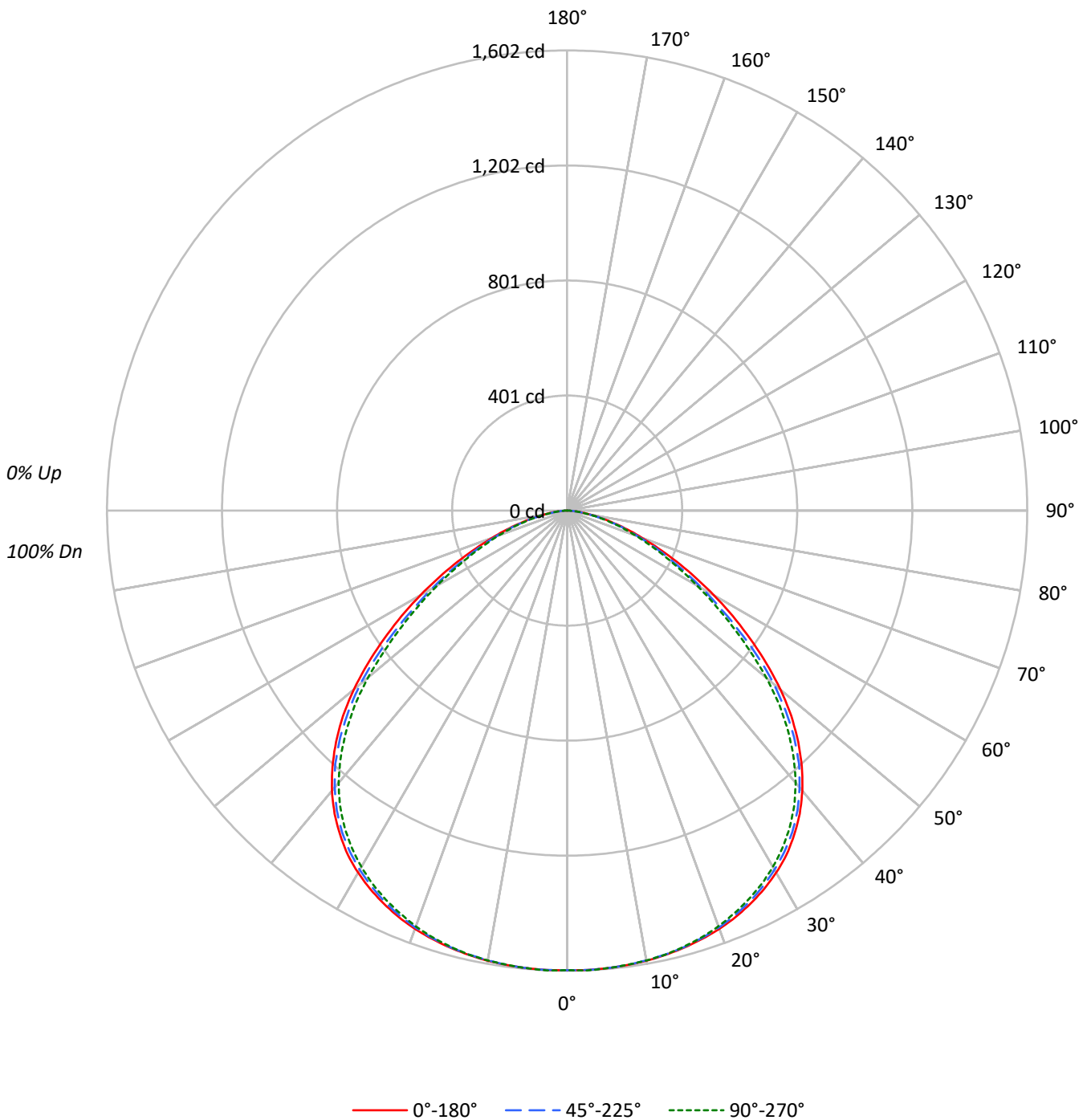
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4258.0 lumens
Efficiency: N/A
Efficacy: 113.5 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°	2153	2153	2153
5°	2160	2160	2160
10°	2175	2172	2173
15°	2194	2191	2189
20°	2219	2212	2206
25°	2242	2231	2218
30°	2261	2243	2226
35°	2264	2245	2217
40°	2238	2212	2174
45°	2165	2126	2071
50°	2030	1967	1895
55°	1825	1716	1646
60°	1589	1462	1406
65°	1337	1237	1183
70°	1090	1035	993
75°	873	842	807
80°	670	618	601
85°	418	406	406



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.3	3.6
10°-20°	444.7	10.4
20°-30°	692.8	16.3
30°-40°	852.2	20.0
40°-50°	856.0	20.1
50°-60°	659.8	15.5
60°-70°	391.7	9.2
70°-80°	174.4	4.1
80°-90°	34.0	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°	1289.8	30.3
0°-40°	2142.1	50.3
0°-60°	3657.9	85.9
0°-90°	4258.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4258.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1600	1600	1600	1600	1600	
5°	1599	1600	1599	1598	1599	152
15°	1575	1575	1573	1570	1572	445
25°	1510	1510	1503	1496	1494	697
35°	1378	1376	1366	1355	1350	861
45°	1138	1135	1117	1098	1088	873
55°	778	763	732	710	702	696
65°	420	402	388	374	372	420
75°	168	165	162	156	155	182
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°	1600.2	1600.2	1600.2	1600.2	1600.2
2.5°	1601.1	1600.6	1600.6	1598.9	1602.3
5°	1599.4	1599.8	1599.4	1597.7	1599.4
7.5°	1596.0	1596.4	1595.5	1593.8	1595.5
10°	1591.7	1591.7	1590.0	1589.2	1590.5
12.5°	1584.5	1584.5	1582.8	1581.5	1582.8
15°	1575.2	1575.2	1573.1	1570.5	1571.8
17.5°	1563.7	1563.7	1560.3	1557.0	1557.8
20°	1549.7	1549.3	1544.7	1540.0	1540.4
22.5°	1531.9	1531.5	1525.6	1520.1	1518.4
25°	1510.3	1509.9	1502.7	1495.9	1494.2
27.5°	1485.3	1483.6	1475.5	1467.9	1466.2
30°	1455.6	1454.3	1443.7	1436.1	1432.7
32.5°	1421.2	1417.8	1408.1	1398.8	1394.1
35°	1378.4	1376.3	1366.5	1355.1	1349.6
37.5°	1330.0	1327.9	1317.3	1304.6	1298.2
40°	1274.1	1272.4	1259.2	1246.1	1238.0
42.5°	1209.6	1208.3	1194.3	1176.1	1167.6
45°	1137.9	1134.9	1117.1	1098.5	1088.3
47.5°	1058.2	1053.1	1031.5	1013.7	1002.6
50°	970.0	963.2	939.9	917.0	905.5
52.5°	874.5	862.7	838.5	812.2	801.2
55°	777.8	763.0	731.6	709.6	701.5
57.5°	683.3	661.6	631.9	616.2	608.2
60°	590.4	566.6	543.3	528.0	522.5
62.5°	501.7	481.8	461.9	446.6	443.2
65°	419.9	401.6	388.5	373.7	371.5
67.5°	343.5	335.1	323.2	310.5	308.8
70°	277.0	273.6	263.0	255.3	252.4
72.5°	221.0	217.6	209.9	204.4	203.6
75°	168.0	164.6	162.0	156.5	155.2
77.5°	119.6	120.0	117.9	114.9	115.8
80°	86.5	81.4	79.7	78.0	77.6
82.5°	53.0	50.0	48.8	48.3	49.2
85°	27.1	25.9	26.3	25.0	26.3
87.5°	9.3	9.3	9.8	9.3	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)