

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: P412507

Luminaire Tested: **24PD-40-PB1-L835**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412507
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-40-PB1-L835
Description: 4000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

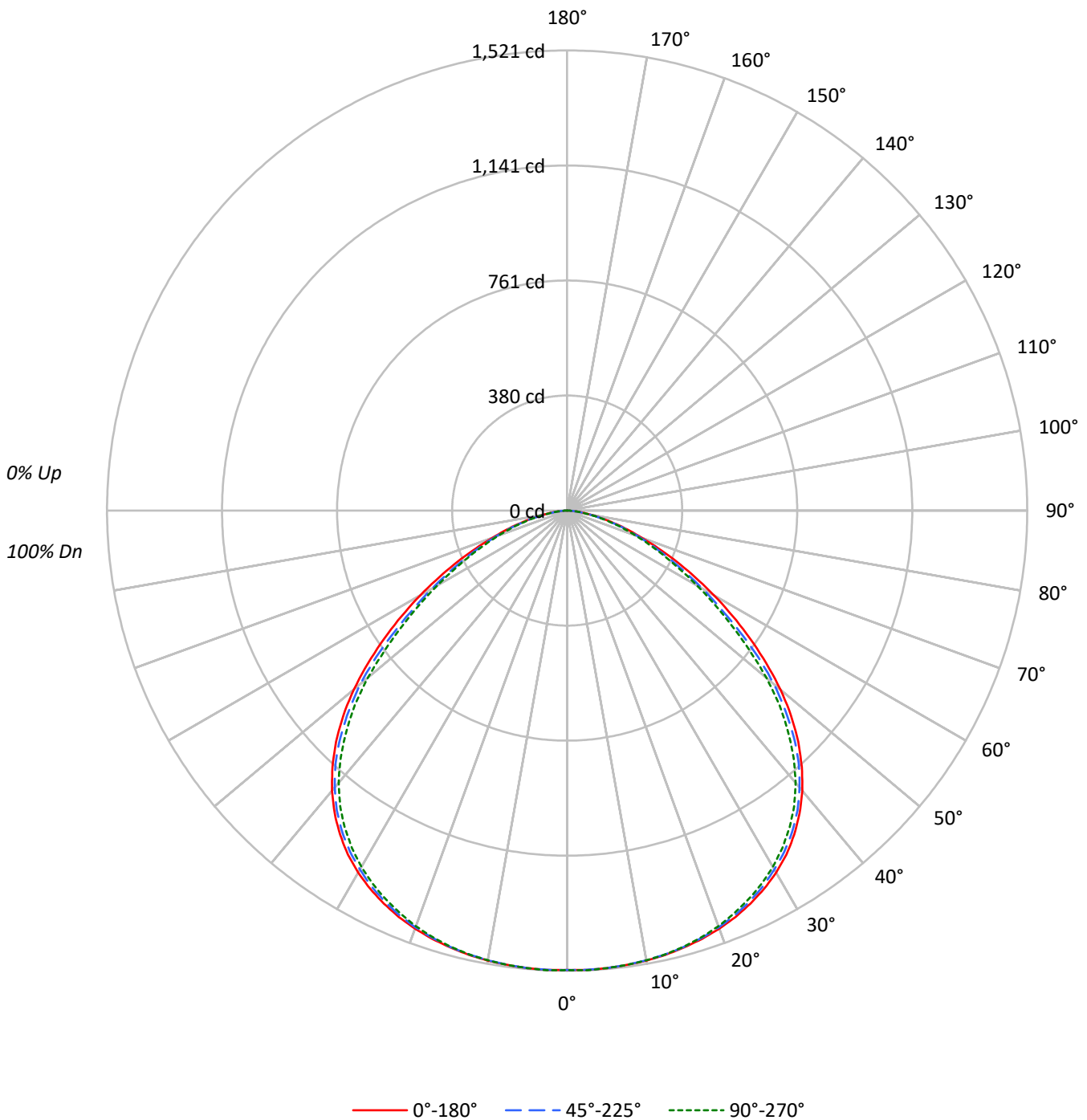
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4041.0 lumens
Efficiency: N/A
Efficacy: 136.1 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): 29.7
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°	2043	2043	2043
5°	2050	2050	2050
10°	2064	2062	2062
15°	2082	2080	2078
20°	2106	2099	2093
25°	2128	2117	2105
30°	2146	2129	2112
35°	2149	2130	2104
40°	2124	2099	2064
45°	2055	2017	1965
50°	1927	1867	1799
55°	1732	1629	1562
60°	1508	1387	1334
65°	1269	1174	1123
70°	1034	982	942
75°	829	800	766
80°	636	587	571
85°	398	386	386



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.6	3.6
10°-20°	422.0	10.4
20°-30°	657.5	16.3
30°-40°	808.8	20.0
40°-50°	812.4	20.1
50°-60°	626.1	15.5
60°-70°	371.7	9.2
70°-80°	165.5	4.1
80°-90°	32.3	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°	1224.1	30.3
0°-40°	2032.9	50.3
0°-60°	3471.4	85.9
0°-90°	4041.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4041.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1519	1519	1519	1519	1519	
5°	1518	1518	1518	1516	1518	145
15°	1495	1495	1493	1490	1492	423
25°	1433	1433	1426	1420	1418	661
35°	1308	1306	1297	1286	1281	817
45°	1080	1077	1060	1042	1033	829
55°	738	724	694	673	666	660
65°	398	381	369	355	353	398
75°	159	156	154	148	147	173
85°	26	25	25	24	25	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1518.7	1518.7	1518.7	1518.7	1518.7
2.5°	1519.5	1519.1	1519.1	1517.5	1520.7
5°	1517.9	1518.3	1517.9	1516.2	1517.9
7.5°	1514.6	1515.0	1514.2	1512.6	1514.2
10°	1510.6	1510.6	1509.0	1508.2	1509.4
12.5°	1503.8	1503.8	1502.2	1500.9	1502.2
15°	1494.9	1494.9	1492.9	1490.5	1491.7
17.5°	1484.0	1484.0	1480.8	1477.6	1478.4
20°	1470.8	1470.4	1465.9	1461.5	1461.9
22.5°	1453.9	1453.5	1447.8	1442.6	1441.0
25°	1433.3	1432.9	1426.1	1419.6	1418.0
27.5°	1409.6	1408.0	1400.3	1393.1	1391.5
30°	1381.4	1380.2	1370.1	1362.9	1359.7
32.5°	1348.8	1345.6	1336.3	1327.5	1323.0
35°	1308.1	1306.1	1296.9	1286.0	1280.8
37.5°	1262.3	1260.2	1250.2	1238.1	1232.1
40°	1209.1	1207.5	1195.0	1182.6	1174.9
42.5°	1148.0	1146.7	1133.5	1116.2	1108.1
45°	1079.9	1077.1	1060.2	1042.5	1032.8
47.5°	1004.3	999.4	978.9	962.0	951.5
50°	920.5	914.1	892.0	870.2	859.4
52.5°	830.0	818.7	795.8	770.8	760.3
55°	738.2	724.1	694.3	673.4	665.7
57.5°	648.4	627.9	599.7	584.8	577.2
60°	560.3	537.7	515.6	501.1	495.9
62.5°	476.2	457.2	438.3	423.8	420.6
65°	398.5	381.2	368.7	354.6	352.6
67.5°	326.0	318.0	306.7	294.6	293.0
70°	262.8	259.6	249.6	242.3	239.5
72.5°	209.7	206.5	199.2	194.0	193.2
75°	159.4	156.2	153.8	148.5	147.3
77.5°	113.5	113.9	111.9	109.1	109.9
80°	82.1	77.3	75.7	74.1	73.7
82.5°	50.3	47.5	46.3	45.9	46.7
85°	25.8	24.6	25.0	23.7	25.0
87.5°	8.9	8.9	9.3	8.9	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)