

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: P412499

Luminaire Tested: **24PD-35-PB1-L840**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412499
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-35-PB1-L840
Description: 3500 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

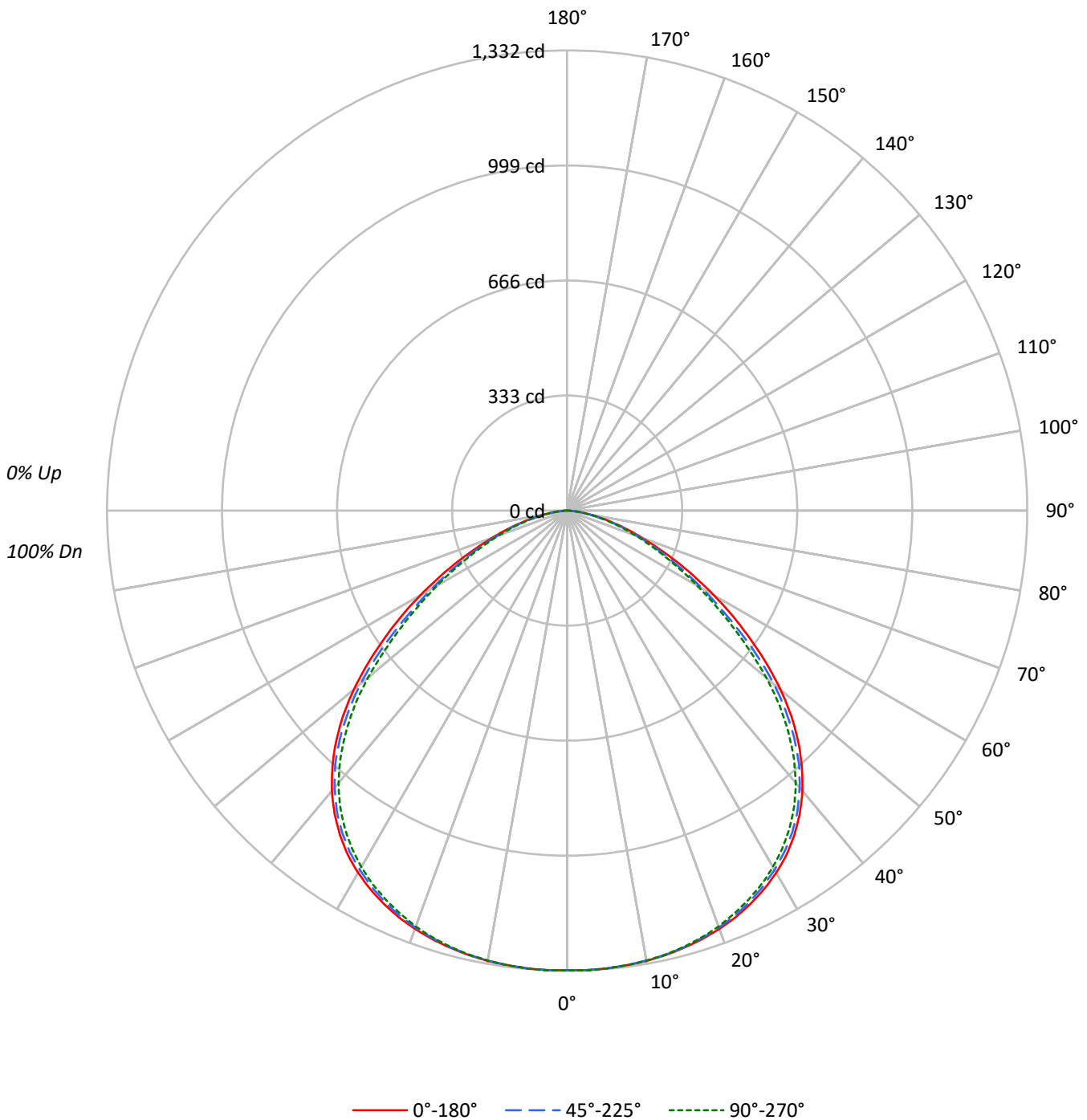
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3541.0 lumens
Efficiency: N/A
Efficacy: 137.2 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): 25.8
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°	1791	1791	1791
5°	1796	1796	1796
10°	1808	1807	1807
15°	1825	1822	1821
20°	1845	1839	1834
25°	1865	1855	1845
30°	1881	1865	1851
35°	1883	1867	1843
40°	1861	1839	1808
45°	1801	1768	1722
50°	1688	1636	1576
55°	1517	1427	1369
60°	1321	1216	1169
65°	1112	1029	984
70°	906	860	826
75°	726	700	671
80°	558	514	500
85°	349	338	338



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.7	3.6
10°-20°	369.8	10.4
20°-30°	576.1	16.3
30°-40°	708.7	20.0
40°-50°	711.9	20.1
50°-60°	548.7	15.5
60°-70°	325.7	9.2
70°-80°	145.0	4.1
80°-90°	28.3	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°	1072.6	30.3
0°-40°	1781.4	50.3
0°-60°	3041.9	85.9
0°-90°	3541.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3541.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1331	1331	1331	1331	1331	
5°	1330	1330	1330	1329	1330	127
15°	1310	1310	1308	1306	1307	370
25°	1256	1256	1250	1244	1243	579
35°	1146	1144	1136	1127	1122	716
45°	946	944	929	914	905	726
55°	647	634	608	590	583	578
65°	349	334	323	311	309	349
75°	140	137	135	130	129	151
85°	23	22	22	21	22	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1330.8	1330.8	1330.8	1330.8	1330.8
2.5°	1331.5	1331.1	1331.1	1329.7	1332.5
5°	1330.0	1330.4	1330.0	1328.6	1330.0
7.5°	1327.2	1327.6	1326.9	1325.5	1326.9
10°	1323.7	1323.7	1322.3	1321.6	1322.6
12.5°	1317.7	1317.7	1316.3	1315.2	1316.3
15°	1309.9	1309.9	1308.2	1306.1	1307.1
17.5°	1300.4	1300.4	1297.6	1294.8	1295.5
20°	1288.8	1288.4	1284.5	1280.7	1281.0
22.5°	1274.0	1273.6	1268.7	1264.1	1262.7
25°	1256.0	1255.6	1249.6	1244.0	1242.6
27.5°	1235.2	1233.8	1227.1	1220.7	1219.3
30°	1210.5	1209.4	1200.6	1194.3	1191.4
32.5°	1181.9	1179.1	1171.0	1163.2	1159.3
35°	1146.3	1144.5	1136.4	1126.9	1122.3
37.5°	1106.1	1104.3	1095.5	1084.9	1079.6
40°	1059.5	1058.1	1047.2	1036.2	1029.5
42.5°	1005.9	1004.9	993.2	978.0	971.0
45°	946.3	943.8	929.0	913.5	905.0
47.5°	880.0	875.8	857.8	843.0	833.8
50°	806.6	801.0	781.6	762.5	753.0
52.5°	727.3	717.4	697.3	675.4	666.3
55°	646.9	634.5	608.4	590.1	583.4
57.5°	568.2	550.2	525.5	512.5	505.8
60°	491.0	471.2	451.8	439.1	434.5
62.5°	417.2	400.7	384.1	371.4	368.6
65°	349.2	334.0	323.1	310.7	309.0
67.5°	285.7	278.6	268.8	258.2	256.8
70°	230.3	227.5	218.7	212.3	209.9
72.5°	183.8	180.9	174.6	170.0	169.3
75°	139.7	136.8	134.7	130.1	129.1
77.5°	99.5	99.8	98.1	95.6	96.3
80°	72.0	67.7	66.3	64.9	64.5
82.5°	44.1	41.6	40.6	40.2	40.9
85°	22.6	21.5	21.9	20.8	21.9
87.5°	7.8	7.8	8.1	7.8	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)