

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: P412392

Luminaire Tested: **22PD-40-PB1-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412392
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22PD-40-PB1-L850
Description: 4000 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

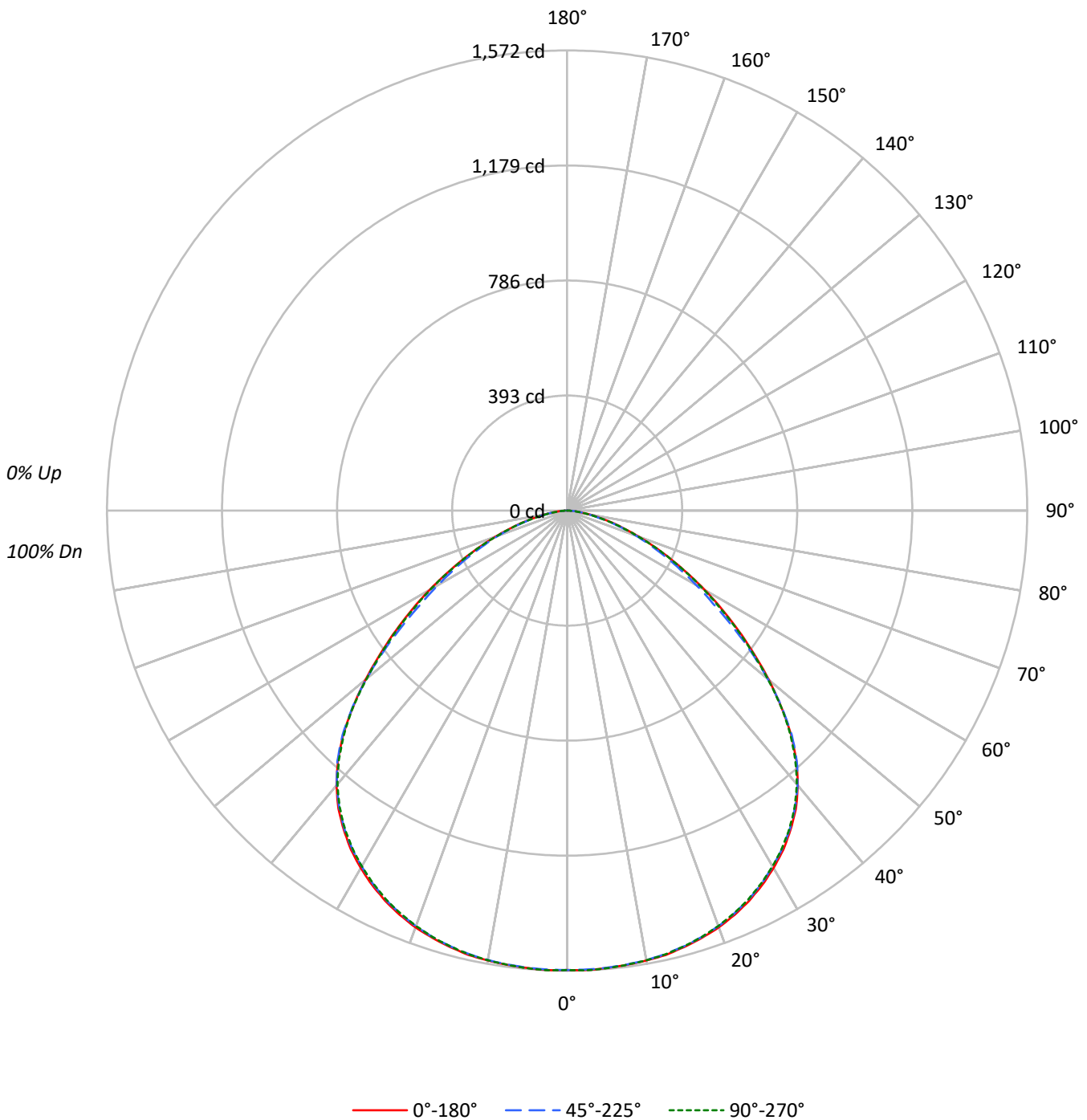
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4121.0 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.32 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.8
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

TEST NUMBER: P412392
CATALOG NUMBER: 22PD-40-PB1-L850

Luminous Intensity Polar Plot





TEST NUMBER: P412392

CATALOG NUMBER: 22PD-40-PB1-L850

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	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					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	76					73				
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65					63				
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	66	61	56					54				
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49					47				
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44					42				
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39					37				
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35					33				
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32					30				
10	55	42	34	29	54	41	34	29	41	34	29	40	33	29	39	33	29					27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4224	4224	4224
5°	4237	4234	4239
10°	4265	4260	4263
15°	4300	4293	4293
20°	4339	4327	4324
25°	4367	4354	4349
30°	4381	4363	4360
35°	4372	4359	4351
40°	4307	4302	4288
45°	4117	4130	4099
50°	3769	3749	3745
55°	3350	3231	3327
60°	2920	2743	2902
65°	2476	2343	2463
70°	2047	1963	2028
75°	1655	1549	1590
80°	1196	1158	1151
85°	778	778	750



TEST NUMBER: P412392

CATALOG NUMBER: 22PD-40-PB1-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.4	3.6
10°-20°	435.6	10.6
20°-30°	675.9	16.4
30°-40°	828.9	20.1
40°-50°	828.6	20.1
50°-60°	627.6	15.2
60°-70°	376.4	9.1
70°-80°	165.7	4.0
80°-90°	32.9	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°	1260.9	30.6
0°-40°	2089.8	50.7
0°-60°	3546.0	86.0
0°-90°	4121.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4121.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1570	1570	1570	1570	1570	
5°	1569	1567	1567	1567	1569	149
15°	1544	1542	1541	1540	1541	436
25°	1471	1468	1466	1464	1465	678
35°	1331	1330	1327	1326	1325	831
45°	1082	1083	1085	1082	1077	828
55°	714	698	689	698	709	640
65°	389	375	368	374	387	389
75°	159	156	149	151	153	170
85°	25	26	25	24	24	33
90°	0	0	0	0	0	



TEST NUMBER: P412392

CATALOG NUMBER: 22PD-40-PB1-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1569.7	1569.7	1569.7	1569.7	1569.7
2.5°	1571.1	1568.7	1569.2	1569.2	1572.1
5°	1568.7	1566.8	1567.3	1566.8	1569.2
7.5°	1565.3	1563.4	1563.9	1563.4	1564.8
10°	1560.9	1559.0	1559.0	1558.0	1560.0
12.5°	1555.1	1552.7	1551.7	1551.2	1552.7
15°	1543.5	1542.0	1541.0	1540.1	1541.0
17.5°	1530.9	1528.4	1527.5	1525.5	1527.5
20°	1515.3	1511.9	1511.0	1509.5	1510.0
22.5°	1494.9	1492.0	1490.6	1488.1	1489.1
25°	1470.7	1467.8	1466.3	1463.9	1464.8
27.5°	1442.5	1440.6	1437.2	1435.2	1435.7
30°	1410.0	1408.1	1404.2	1403.2	1403.2
32.5°	1374.1	1371.7	1368.3	1367.3	1366.8
35°	1330.9	1330.4	1327.0	1326.0	1324.6
37.5°	1283.8	1282.8	1278.9	1278.0	1276.5
40°	1226.0	1225.1	1224.6	1222.6	1220.7
42.5°	1159.1	1160.5	1161.5	1157.6	1153.7
45°	1081.9	1083.3	1085.3	1082.4	1077.0
47.5°	991.6	997.4	994.5	996.5	991.1
50°	900.4	900.4	895.5	897.4	894.5
52.5°	804.7	797.0	791.2	795.0	798.9
55°	714.0	698.4	688.7	698.0	709.1
57.5°	627.1	608.7	590.7	605.3	618.8
60°	542.6	521.3	509.6	520.3	539.2
62.5°	462.6	447.0	435.4	443.6	459.6
65°	388.8	375.2	367.9	374.2	386.8
67.5°	321.3	312.1	304.8	310.2	319.9
70°	260.2	257.7	249.5	251.9	257.7
72.5°	204.3	203.9	196.6	198.5	201.9
75°	159.2	155.8	149.0	151.4	152.9
77.5°	112.6	114.1	107.8	109.2	109.2
80°	77.2	79.6	74.7	73.8	74.3
82.5°	49.0	49.0	48.5	48.1	46.6
85°	25.2	26.2	25.2	24.3	24.3
87.5°	9.7	9.7	9.7	9.2	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)