

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: P413099

Luminaire Tested: **22PD-50-PC3-L950**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413099
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-15)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22PD-50-PC3-L950
Description: 5000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

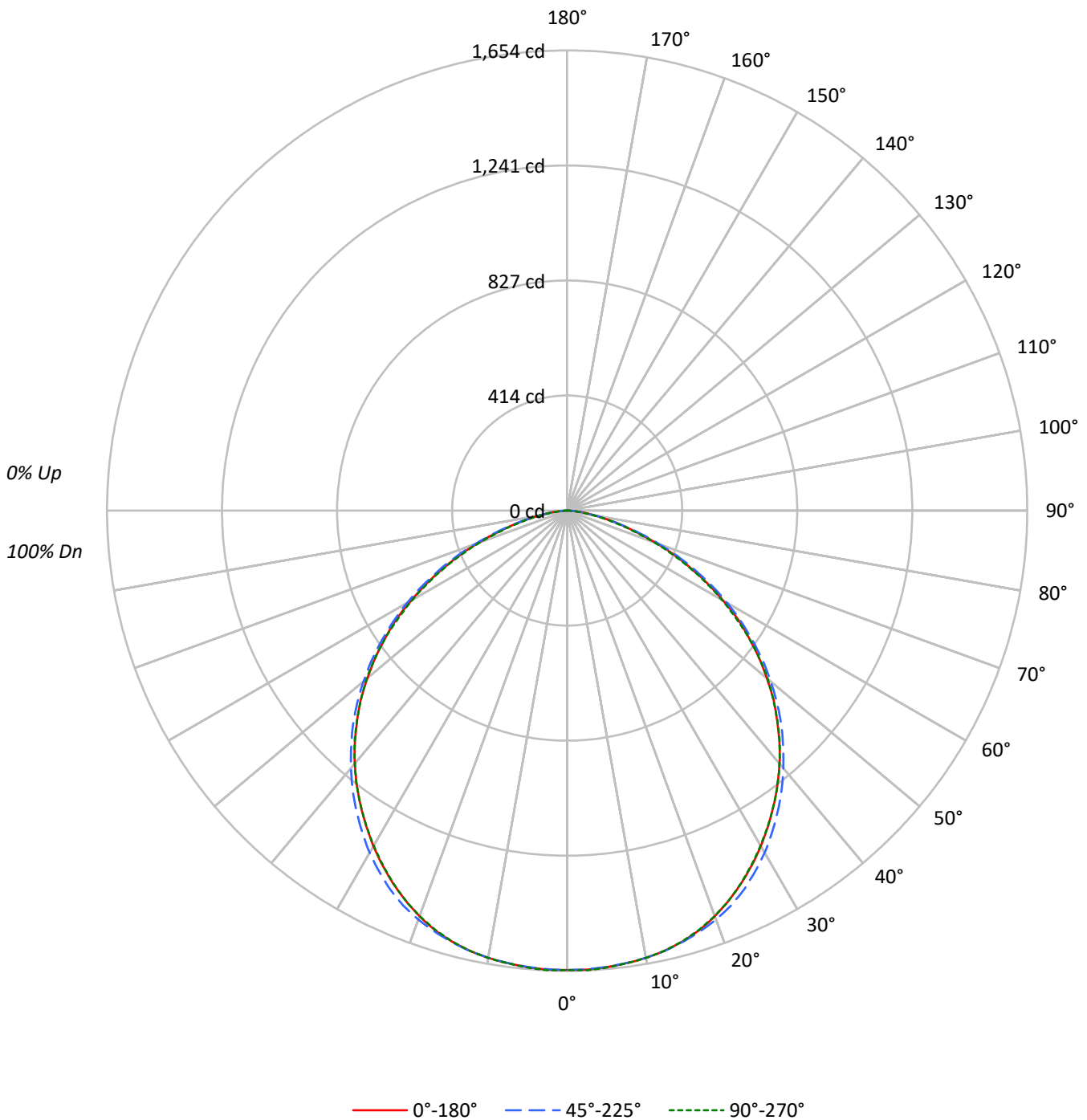
Lumens per Lamp: N/A
Luminaire Lumens: 4437.0 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 42.5
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	105	101	97	107	103	99	96	99	96	93		95	92	90		91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77		83	79	76		80	77	74	72
3	91	81	73	67	89	80	72	67	77	70	65		74	69	64		71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56		66	60	55		64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	49		59	53	48		58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43		54	47	42		52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34		45	38	34		44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30		41	35	30		40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28		38	32	28		38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4444	4444	4444
5°	4450	4447	4453
10°	4461	4460	4461
15°	4467	4472	4465
20°	4444	4480	4441
25°	4392	4464	4389
30°	4327	4412	4321
35°	4252	4337	4252
40°	4173	4246	4173
45°	4062	4142	4068
50°	3924	4001	3939
55°	3741	3815	3741
60°	3489	3576	3466
65°	3131	3241	3091
70°	2678	2773	2600
75°	2125	2184	2015
80°	1522	1579	1449
85°	1007	1037	942



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.7	3.5
10°-20°	452.6	10.2
20°-30°	686.7	15.5
30°-40°	820.1	18.5
40°-50°	834.0	18.8
50°-60°	721.4	16.3
60°-70°	496.4	11.2
70°-80°	225.3	5.1
80°-90°	43.6	1.0
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°	1296.1	29.2
0°-40°	2116.2	47.7
0°-60°	3671.7	82.8
0°-90°	4437.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4437.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1652	1652	1652	1652	1652	
5°	1647	1646	1646	1646	1648	157
15°	1603	1604	1605	1603	1603	452
25°	1479	1492	1504	1490	1478	681
35°	1294	1318	1320	1315	1294	810
45°	1068	1087	1088	1087	1069	823
55°	797	811	813	812	797	713
65°	492	505	509	505	485	488
75°	204	212	210	208	194	220
85°	33	35	34	33	30	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1651.6	1651.6	1651.6	1651.6	1651.6
2.5°	1651.6	1649.5	1650.0	1650.6	1653.7
5°	1647.4	1645.8	1646.4	1646.4	1648.5
7.5°	1640.6	1640.1	1640.1	1639.5	1641.1
10°	1632.7	1631.7	1632.2	1631.7	1632.7
12.5°	1620.6	1620.6	1621.2	1619.6	1620.6
15°	1603.3	1604.3	1605.4	1602.8	1602.8
17.5°	1581.2	1583.9	1586.5	1581.8	1579.1
20°	1551.8	1558.1	1564.4	1557.1	1550.8
22.5°	1517.7	1528.2	1537.6	1526.1	1517.7
25°	1479.3	1492.4	1503.5	1489.8	1478.3
27.5°	1437.8	1452.5	1463.0	1451.5	1435.7
30°	1392.6	1410.5	1420.0	1408.9	1390.5
32.5°	1344.3	1365.3	1371.1	1364.3	1343.3
35°	1294.4	1317.5	1320.1	1315.4	1294.4
37.5°	1242.4	1264.5	1266.6	1263.9	1242.4
40°	1187.8	1208.2	1208.8	1208.8	1187.8
42.5°	1129.4	1149.4	1149.4	1148.9	1131.0
45°	1067.5	1086.9	1088.5	1087.4	1069.0
47.5°	1006.0	1020.7	1023.3	1021.2	1004.9
50°	937.2	952.4	955.6	953.5	940.9
52.5°	868.9	883.1	886.2	884.6	870.5
55°	797.4	811.1	813.2	811.6	797.4
57.5°	728.6	737.6	739.7	736.5	718.6
60°	648.3	660.9	664.5	660.9	644.0
62.5°	570.5	584.2	587.3	582.1	564.2
65°	491.7	505.4	509.0	504.8	485.4
67.5°	417.1	427.1	430.2	425.5	407.7
70°	340.4	353.0	352.5	346.2	330.4
72.5°	264.8	282.1	278.9	275.3	257.9
75°	204.4	212.2	210.1	208.0	193.8
77.5°	146.0	155.5	150.2	150.8	138.7
80°	98.2	107.2	101.9	99.8	93.5
82.5°	62.5	66.2	65.1	64.1	58.3
85°	32.6	34.7	33.6	32.6	30.5
87.5°	12.6	13.7	12.6	12.6	11.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)