

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: P413085

Luminaire Tested: **22PD-45-PC3-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413085
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-45-PC3-L850
Description: 4500 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

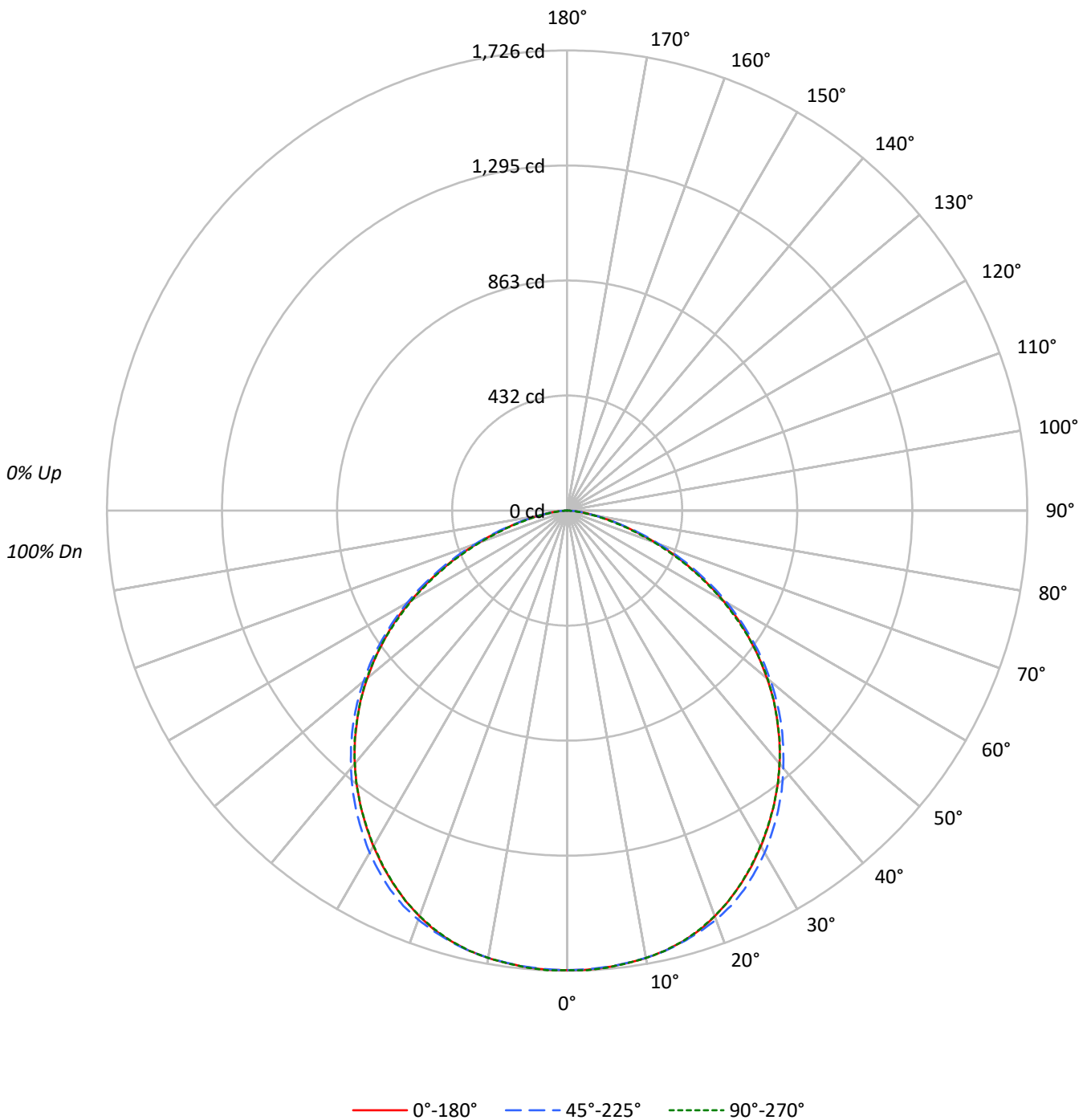
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4631.0 lumens
Efficiency: N/A
Efficacy: 121.2 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): 38.2
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°	4639	4639	4639
5°	4645	4642	4648
10°	4656	4655	4656
15°	4662	4668	4660
20°	4638	4676	4635
25°	4584	4659	4581
30°	4516	4605	4510
35°	4438	4527	4438
40°	4355	4432	4355
45°	4240	4324	4246
50°	4095	4175	4111
55°	3905	3982	3905
60°	3641	3733	3618
65°	3268	3383	3226
70°	2795	2895	2714
75°	2218	2280	2103
80°	1588	1649	1512
85°	1050	1084	982



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.6	3.5
10°-20°	472.4	10.2
20°-30°	716.7	15.5
30°-40°	856.0	18.5
40°-50°	870.5	18.8
50°-60°	753.0	16.3
60°-70°	518.1	11.2
70°-80°	235.1	5.1
80°-90°	45.5	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°	1352.7	29.2
0°-40°	2208.7	47.7
0°-60°	3832.2	82.8
0°-90°	4631.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4631.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1724	1724	1724	1724	1724	
5°	1720	1718	1718	1718	1720	164
15°	1673	1674	1676	1673	1673	472
25°	1544	1558	1569	1555	1543	711
35°	1351	1375	1378	1373	1351	845
45°	1114	1134	1136	1135	1116	859
55°	832	847	849	847	832	744
65°	513	528	531	527	507	509
75°	213	222	219	217	202	229
85°	34	36	35	34	32	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1723.8	1723.8	1723.8	1723.8	1723.8
2.5°	1723.8	1721.6	1722.2	1722.7	1726.0
5°	1719.5	1717.8	1718.4	1718.4	1720.5
7.5°	1712.3	1711.8	1711.8	1711.2	1712.9
10°	1704.1	1703.0	1703.5	1703.0	1704.1
12.5°	1691.5	1691.5	1692.0	1690.4	1691.5
15°	1673.4	1674.5	1675.6	1672.8	1672.8
17.5°	1650.4	1653.1	1655.8	1650.9	1648.2
20°	1619.7	1626.2	1632.8	1625.1	1618.6
22.5°	1584.0	1595.0	1604.9	1592.8	1584.0
25°	1544.0	1557.7	1569.2	1555.0	1542.9
27.5°	1500.7	1516.0	1527.0	1514.9	1498.5
30°	1453.5	1472.2	1482.0	1470.5	1451.3
32.5°	1403.1	1425.0	1431.0	1423.9	1402.0
35°	1351.0	1375.1	1377.9	1372.9	1351.0
37.5°	1296.7	1319.7	1321.9	1319.2	1296.7
40°	1239.7	1261.1	1261.6	1261.6	1239.7
42.5°	1178.8	1199.7	1199.7	1199.1	1180.5
45°	1114.1	1134.4	1136.1	1135.0	1115.8
47.5°	1050.0	1065.3	1068.1	1065.9	1048.9
50°	978.2	994.1	997.3	995.2	982.0
52.5°	906.9	921.7	925.0	923.3	908.5
55°	832.3	846.6	848.8	847.1	832.3
57.5°	760.5	769.8	772.0	768.7	750.1
60°	676.6	689.8	693.6	689.8	672.2
62.5°	595.4	609.7	613.0	607.5	588.9
65°	513.2	527.5	531.3	526.9	506.6
67.5°	435.3	445.8	449.1	444.1	425.5
70°	355.3	368.5	367.9	361.3	344.9
72.5°	276.3	294.4	291.1	287.3	269.2
75°	213.3	221.5	219.3	217.1	202.3
77.5°	152.4	162.3	156.8	157.4	144.7
80°	102.5	111.9	106.4	104.2	97.6
82.5°	65.2	69.1	68.0	66.9	60.9
85°	34.0	36.2	35.1	34.0	31.8
87.5°	13.2	14.3	13.2	13.2	12.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)