

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: P413106

Luminaire Tested: **22PD-55-PC3-L935**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413106
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-55-PC3-L935
Description: 5500 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

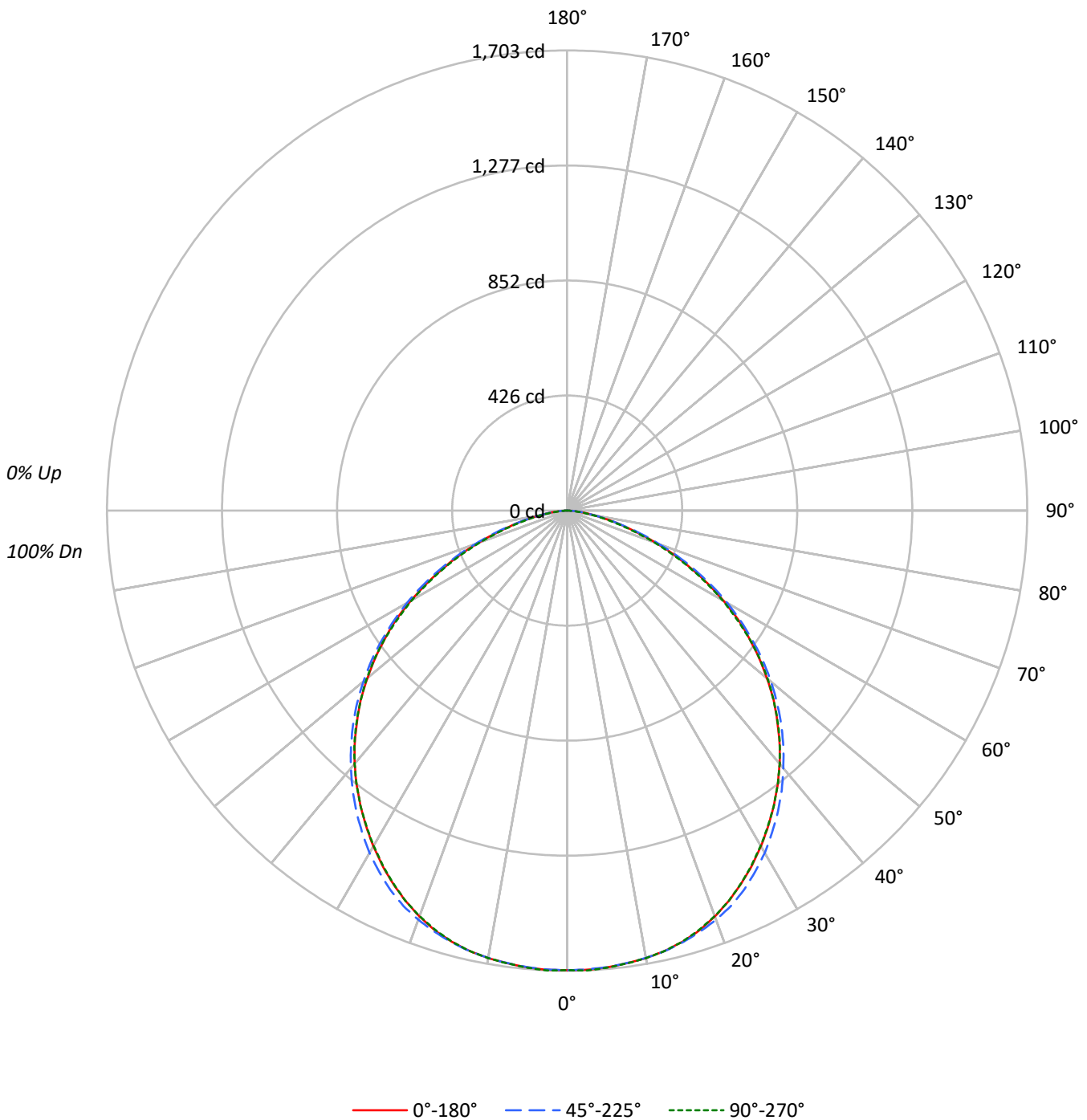
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4570.0 lumens
Efficiency: N/A
Efficacy: 98.9 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): 46.2
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°	4578	4578	4578
5°	4583	4581	4586
10°	4595	4594	4595
15°	4601	4606	4599
20°	4577	4614	4574
25°	4524	4598	4521
30°	4457	4544	4450
35°	4380	4467	4380
40°	4298	4373	4298
45°	4184	4266	4190
50°	4041	4120	4057
55°	3853	3930	3853
60°	3594	3684	3570
65°	3224	3338	3184
70°	2758	2857	2677
75°	2189	2250	2076
80°	1568	1627	1492
85°	1034	1068	969



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.4	3.5
10°-20°	466.2	10.2
20°-30°	707.3	15.5
30°-40°	844.7	18.5
40°-50°	859.1	18.8
50°-60°	743.1	16.3
60°-70°	511.3	11.2
70°-80°	232.1	5.1
80°-90°	44.9	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°	1334.9	29.2
0°-40°	2179.6	47.7
0°-60°	3781.7	82.8
0°-90°	4570.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4570.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1701	1701	1701	1701	1701	
5°	1697	1695	1696	1696	1698	161
15°	1651	1652	1654	1651	1651	466
25°	1524	1537	1548	1534	1523	702
35°	1333	1357	1360	1355	1333	834
45°	1100	1120	1121	1120	1101	848
55°	821	835	838	836	821	734
65°	506	520	524	520	500	502
75°	210	219	216	214	200	226
85°	34	36	35	34	31	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1701.1	1701.1	1701.1	1701.1	1701.1
2.5°	1701.1	1699.0	1699.5	1700.0	1703.3
5°	1696.8	1695.2	1695.7	1695.7	1697.9
7.5°	1689.8	1689.2	1689.2	1688.7	1690.3
10°	1681.7	1680.6	1681.1	1680.6	1681.7
12.5°	1669.2	1669.2	1669.7	1668.1	1669.2
15°	1651.4	1652.4	1653.5	1650.8	1650.8
17.5°	1628.6	1631.3	1634.0	1629.2	1626.5
20°	1598.3	1604.8	1611.3	1603.7	1597.2
22.5°	1563.2	1574.0	1583.7	1571.8	1563.2
25°	1523.7	1537.2	1548.5	1534.5	1522.6
27.5°	1480.9	1496.1	1506.9	1495.0	1478.7
30°	1434.4	1452.8	1462.5	1451.2	1432.2
32.5°	1384.6	1406.2	1412.2	1405.2	1383.5
35°	1333.2	1357.0	1359.7	1354.8	1333.2
37.5°	1279.6	1302.4	1304.5	1301.8	1279.6
40°	1223.4	1244.5	1245.0	1245.0	1223.4
42.5°	1163.3	1183.9	1183.9	1183.3	1164.9
45°	1099.5	1119.5	1121.1	1120.0	1101.1
47.5°	1036.2	1051.3	1054.0	1051.8	1035.1
50°	965.3	981.0	984.2	982.0	969.1
52.5°	894.9	909.5	912.8	911.2	896.6
55°	821.3	835.4	837.6	836.0	821.3
57.5°	750.5	759.7	761.8	758.6	740.2
60°	667.7	680.7	684.5	680.7	663.4
62.5°	587.6	601.7	604.9	599.5	581.1
65°	506.4	520.5	524.3	520.0	500.0
67.5°	429.6	439.9	443.1	438.3	419.9
70°	350.6	363.6	363.1	356.6	340.3
72.5°	272.7	290.6	287.3	283.5	265.7
75°	210.5	218.6	216.4	214.3	199.7
77.5°	150.4	160.2	154.7	155.3	142.8
80°	101.2	110.4	105.0	102.8	96.3
82.5°	64.4	68.2	67.1	66.0	60.1
85°	33.5	35.7	34.6	33.5	31.4
87.5°	13.0	14.1	13.0	13.0	11.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)