

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: P413082

Luminaire Tested: **22PD-45-PC3-L830**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413082
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-L830
Description: 4500 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

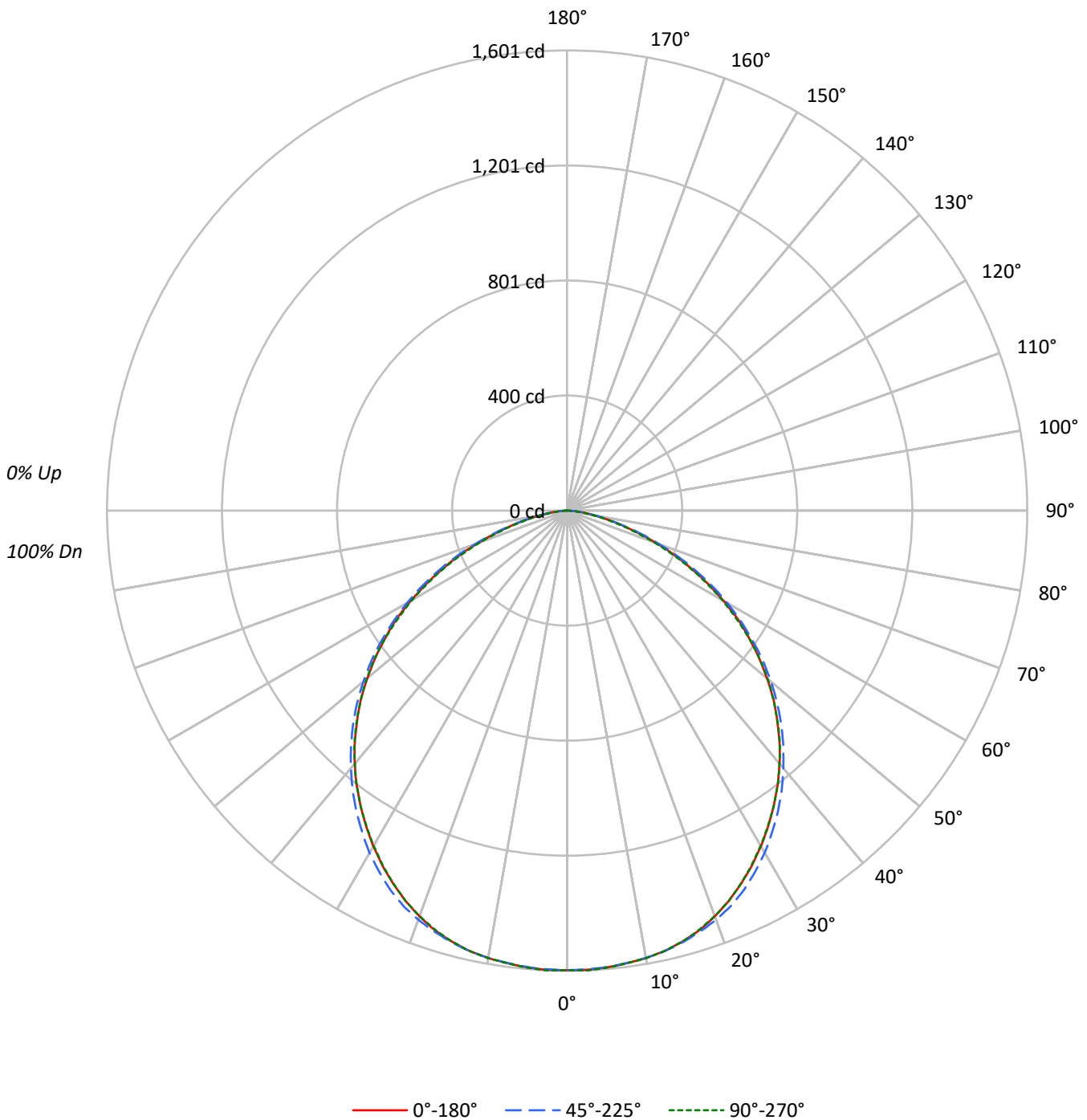
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4296.0 lumens
Efficiency: N/A
Efficacy: 112.5 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°	4303	4303	4303
5°	4309	4306	4311
10°	4320	4318	4320
15°	4325	4330	4323
20°	4303	4338	4300
25°	4253	4322	4250
30°	4190	4272	4183
35°	4117	4199	4117
40°	4040	4111	4040
45°	3933	4011	3939
50°	3799	3873	3814
55°	3622	3694	3622
60°	3378	3463	3356
65°	3032	3138	2993
70°	2593	2685	2517
75°	2058	2116	1952
80°	1474	1530	1402
85°	973	1007	911



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.7	3.5
10°-20°	438.3	10.2
20°-30°	664.9	15.5
30°-40°	794.1	18.5
40°-50°	807.6	18.8
50°-60°	698.5	16.3
60°-70°	480.7	11.2
70°-80°	218.1	5.1
80°-90°	42.2	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°	1254.9	29.2
0°-40°	2048.9	47.7
0°-60°	3555.0	82.8
0°-90°	4296.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4296.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1599	1599	1599	1599	1599	
5°	1595	1594	1594	1594	1596	152
15°	1552	1553	1554	1552	1552	438
25°	1432	1445	1456	1442	1431	660
35°	1253	1276	1278	1274	1253	784
45°	1034	1052	1054	1053	1035	797
55°	772	785	787	786	772	690
65°	476	489	493	489	470	472
75°	198	206	204	201	188	213
85°	32	34	33	32	30	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1599.1	1599.1	1599.1	1599.1	1599.1
2.5°	1599.1	1597.1	1597.6	1598.1	1601.2
5°	1595.1	1593.5	1594.1	1594.1	1596.1
7.5°	1588.5	1587.9	1587.9	1587.4	1589.0
10°	1580.8	1579.8	1580.3	1579.8	1580.8
12.5°	1569.1	1569.1	1569.6	1568.1	1569.1
15°	1552.3	1553.4	1554.4	1551.8	1551.8
17.5°	1531.0	1533.5	1536.1	1531.5	1528.9
20°	1502.5	1508.6	1514.7	1507.6	1501.5
22.5°	1469.4	1479.6	1488.8	1477.6	1469.4
25°	1432.3	1445.0	1455.7	1442.5	1431.3
27.5°	1392.1	1406.4	1416.5	1405.3	1390.1
30°	1348.4	1365.7	1374.8	1364.1	1346.3
32.5°	1301.6	1321.9	1327.5	1320.9	1300.6
35°	1253.3	1275.6	1278.2	1273.6	1253.3
37.5°	1202.9	1224.3	1226.3	1223.8	1202.9
40°	1150.0	1169.9	1170.4	1170.4	1150.0
42.5°	1093.6	1112.9	1112.9	1112.4	1095.1
45°	1033.5	1052.4	1053.9	1052.9	1035.1
47.5°	974.0	988.3	990.8	988.8	973.0
50°	907.4	922.1	925.2	923.2	911.0
52.5°	841.3	855.0	858.1	856.5	842.8
55°	772.1	785.3	787.4	785.8	772.1
57.5°	705.5	714.1	716.2	713.1	695.8
60°	627.7	639.9	643.4	639.9	623.6
62.5°	552.4	565.6	568.6	563.6	546.3
65°	476.1	489.3	492.9	488.8	470.0
67.5°	403.9	413.5	416.6	412.0	394.7
70°	329.6	341.8	341.3	335.2	319.9
72.5°	256.4	273.1	270.1	266.5	249.7
75°	197.9	205.5	203.5	201.4	187.7
77.5°	141.4	150.6	145.5	146.0	134.3
80°	95.1	103.8	98.7	96.6	90.5
82.5°	60.5	64.1	63.1	62.1	56.5
85°	31.5	33.6	32.6	31.5	29.5
87.5°	12.2	13.2	12.2	12.2	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)