

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: P413181

Luminaire Tested: **24PD-35-PC3-L830**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413181
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-46)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-35-PC3-L830
Description: 3500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

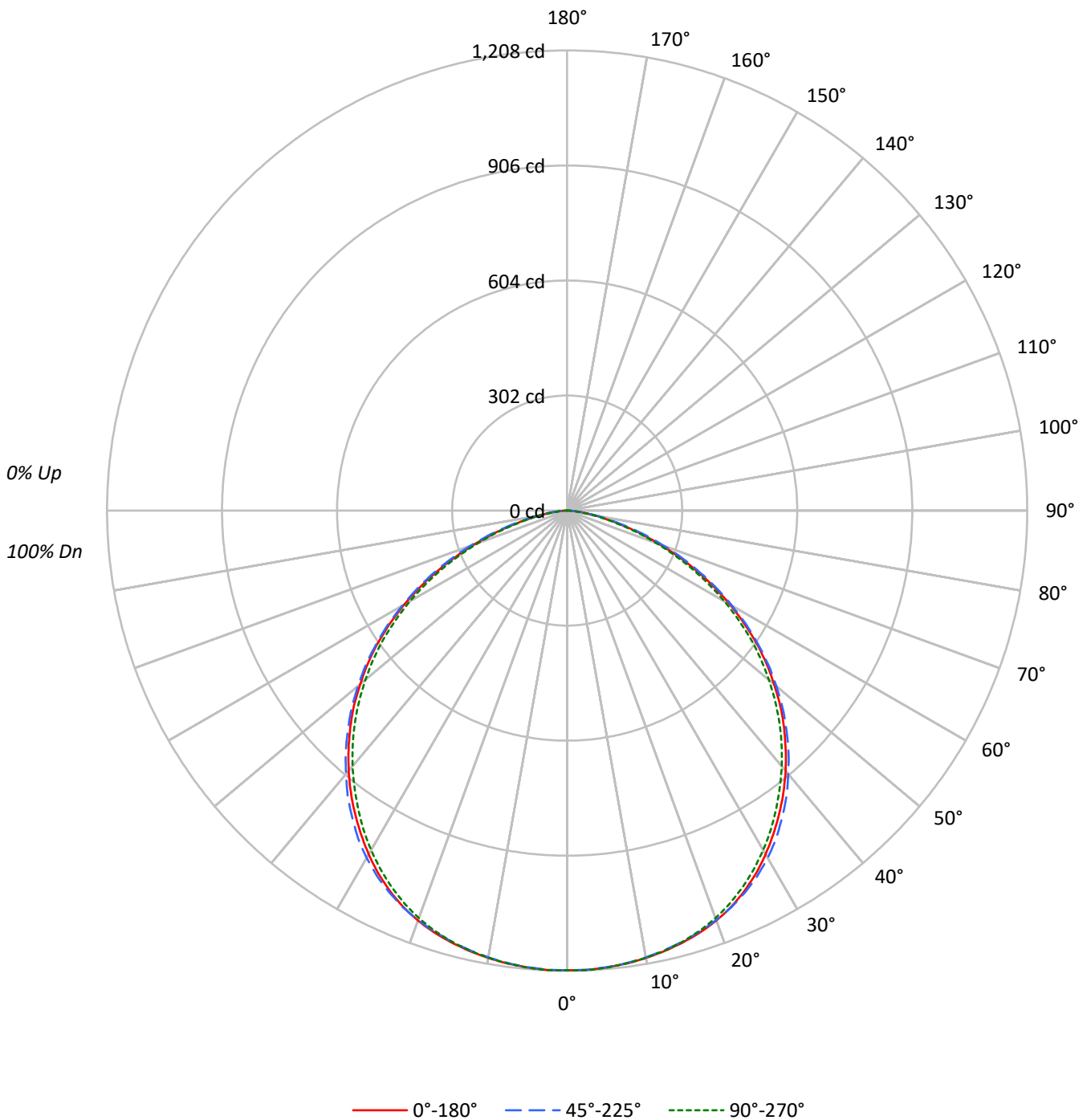
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3299.0 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
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

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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	109	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	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	47	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1624	1624	1624
5°	1626	1625	1627
10°	1629	1627	1628
15°	1635	1631	1632
20°	1640	1638	1630
25°	1635	1641	1619
30°	1619	1636	1599
35°	1595	1616	1571
40°	1567	1586	1539
45°	1532	1549	1500
50°	1484	1501	1448
55°	1423	1436	1381
60°	1329	1344	1283
65°	1197	1227	1151
70°	1017	1061	976
75°	788	845	751
80°	586	611	531
85°	361	387	335



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.5	3.5
10°-20°	331.0	10.0
20°-30°	506.9	15.4
30°-40°	609.8	18.5
40°-50°	621.8	18.8
50°-60°	539.1	16.3
60°-70°	373.7	11.3
70°-80°	170.7	5.2
80°-90°	31.5	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°	952.4	28.9
0°-40°	1562.2	47.4
0°-60°	2723.0	82.5
0°-90°	3299.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3299.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1207	1207	1207	1207	1207	
5°	1204	1204	1203	1203	1204	115
15°	1174	1173	1171	1170	1172	332
25°	1102	1105	1106	1096	1090	507
35°	971	982	984	971	956	607
45°	805	815	814	803	788	620
55°	607	610	612	597	589	541
65°	376	384	386	372	361	372
75°	152	160	162	157	144	166
85°	23	24	25	24	22	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1206.9	1206.9	1206.9	1206.9	1206.9
2.5°	1206.9	1206.9	1206.3	1205.6	1207.6
5°	1203.9	1203.9	1203.3	1202.6	1204.3
7.5°	1199.3	1198.9	1198.3	1197.6	1198.6
10°	1192.6	1192.2	1190.9	1190.6	1191.9
12.5°	1184.2	1183.9	1181.9	1181.9	1182.9
15°	1173.5	1173.2	1171.2	1170.2	1171.5
17.5°	1161.5	1161.1	1158.8	1156.1	1156.8
20°	1145.4	1145.4	1143.8	1139.7	1138.7
22.5°	1126.0	1127.0	1127.0	1119.3	1116.3
25°	1101.6	1104.6	1105.6	1095.9	1090.3
27.5°	1073.9	1078.6	1081.2	1068.9	1061.5
30°	1042.1	1049.8	1053.1	1039.8	1029.1
32.5°	1007.3	1017.0	1021.1	1008.0	994.3
35°	971.2	981.6	983.6	970.9	956.5
37.5°	932.8	943.5	946.2	934.8	917.1
40°	892.3	903.0	903.0	893.7	876.3
42.5°	849.5	860.9	860.6	849.2	833.5
45°	805.1	815.1	813.8	802.7	788.4
47.5°	759.3	765.6	767.3	754.3	740.5
50°	709.1	715.5	717.1	702.4	691.7
52.5°	659.6	663.7	666.0	648.9	641.3
55°	606.8	610.5	612.2	597.1	588.8
57.5°	551.0	555.7	557.7	542.6	533.3
60°	493.8	498.8	499.5	485.5	476.8
62.5°	435.6	442.3	443.7	429.6	419.3
65°	376.1	384.1	385.5	372.4	361.4
67.5°	316.6	327.3	327.6	316.9	303.9
70°	258.4	270.1	269.8	260.8	248.1
72.5°	202.9	213.6	216.0	207.6	195.3
75°	151.5	159.8	162.5	157.1	144.4
77.5°	107.7	115.3	117.7	112.7	103.3
80°	75.6	75.9	78.9	74.9	68.5
82.5°	46.8	46.1	47.1	45.5	41.8
85°	23.4	24.1	25.1	23.7	21.7
87.5°	8.0	8.4	9.0	9.0	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)