

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: P413174

Luminaire Tested: **24PD-30-PC3-L840**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413174
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-30-PC3-L840
Description: 3000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

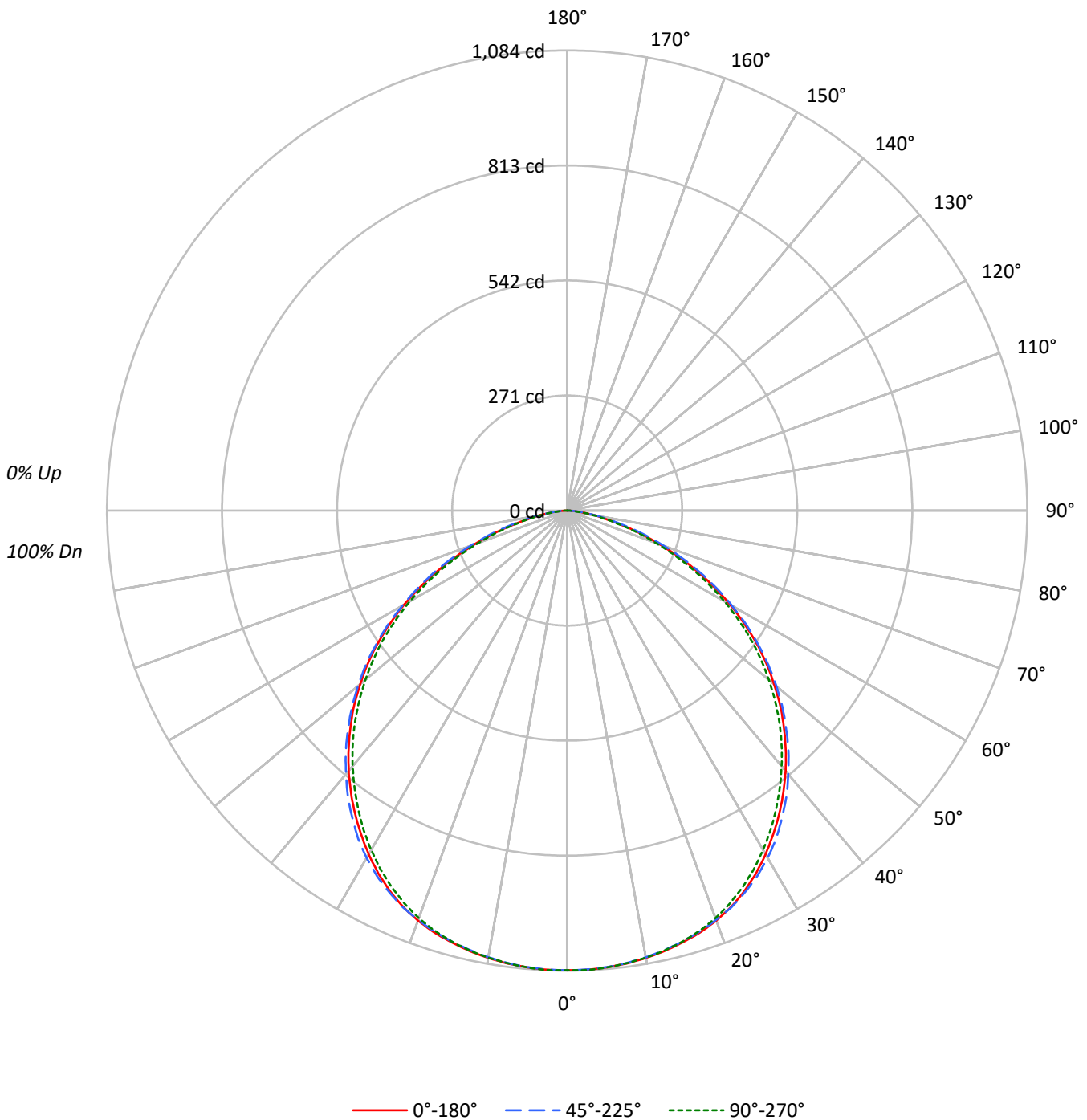
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2960.0 lumens
Efficiency: N/A
Efficacy: 134.5 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): 22
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	68	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°	1457	1457	1457
5°	1459	1458	1459
10°	1462	1460	1461
15°	1467	1464	1464
20°	1472	1469	1463
25°	1467	1473	1452
30°	1453	1468	1434
35°	1431	1450	1410
40°	1406	1423	1381
45°	1374	1389	1346
50°	1332	1347	1299
55°	1277	1289	1239
60°	1192	1206	1151
65°	1074	1101	1032
70°	912	952	876
75°	706	758	674
80°	525	549	477
85°	324	347	301



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.7	3.5
10°-20°	297.0	10.0
20°-30°	454.8	15.4
30°-40°	547.1	18.5
40°-50°	557.9	18.8
50°-60°	483.7	16.3
60°-70°	335.4	11.3
70°-80°	153.2	5.2
80°-90°	28.3	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°	854.5	28.9
0°-40°	1401.6	47.4
0°-60°	2443.2	82.5
0°-90°	2960.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2960.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1083	1083	1083	1083	1083	
5°	1080	1080	1080	1079	1080	103
15°	1053	1053	1051	1050	1051	297
25°	988	991	992	983	978	455
35°	871	881	882	871	858	545
45°	722	731	730	720	707	557
55°	544	548	549	536	528	485
65°	338	345	346	334	324	334
75°	136	143	146	141	130	149
85°	21	22	22	21	20	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1082.9	1082.9	1082.9	1082.9	1082.9
2.5°	1082.9	1082.9	1082.3	1081.7	1083.5
5°	1080.2	1080.2	1079.6	1079.0	1080.5
7.5°	1076.0	1075.7	1075.1	1074.5	1075.4
10°	1070.0	1069.7	1068.5	1068.2	1069.4
12.5°	1062.5	1062.2	1060.4	1060.4	1061.3
15°	1052.9	1052.6	1050.8	1049.9	1051.1
17.5°	1042.1	1041.8	1039.7	1037.3	1037.9
20°	1027.7	1027.7	1026.2	1022.6	1021.7
22.5°	1010.3	1011.2	1011.2	1004.3	1001.6
25°	988.4	991.1	992.0	983.3	978.2
27.5°	963.5	967.7	970.1	959.0	952.4
30°	935.0	941.9	944.9	932.9	923.3
32.5°	903.8	912.5	916.1	904.4	892.1
35°	871.4	880.7	882.5	871.1	858.2
37.5°	836.9	846.5	848.9	838.7	822.8
40°	800.6	810.2	810.2	801.8	786.2
42.5°	762.2	772.4	772.1	761.9	747.8
45°	722.3	731.3	730.1	720.2	707.3
47.5°	681.2	686.9	688.4	676.7	664.5
50°	636.3	642.0	643.5	630.3	620.7
52.5°	591.9	595.5	597.6	582.3	575.4
55°	544.5	547.8	549.3	535.8	528.3
57.5°	494.4	498.6	500.4	486.9	478.5
60°	443.1	447.6	448.2	435.6	427.8
62.5°	390.9	396.9	398.1	385.5	376.2
65°	337.5	344.7	345.9	334.2	324.3
67.5°	284.1	293.7	294.0	284.4	272.7
70°	231.9	242.4	242.1	234.0	222.6
72.5°	182.1	191.7	193.8	186.3	175.2
75°	135.9	143.4	145.8	141.0	129.6
77.5°	96.6	103.5	105.6	101.1	92.7
80°	67.8	68.1	70.8	67.2	61.5
82.5°	42.0	41.4	42.3	40.8	37.5
85°	21.0	21.6	22.5	21.3	19.5
87.5°	7.2	7.5	8.1	8.1	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)