

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: P413186

Luminaire Tested: **24PD-35-PC3-L930**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413186
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-L930
Description: 3500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

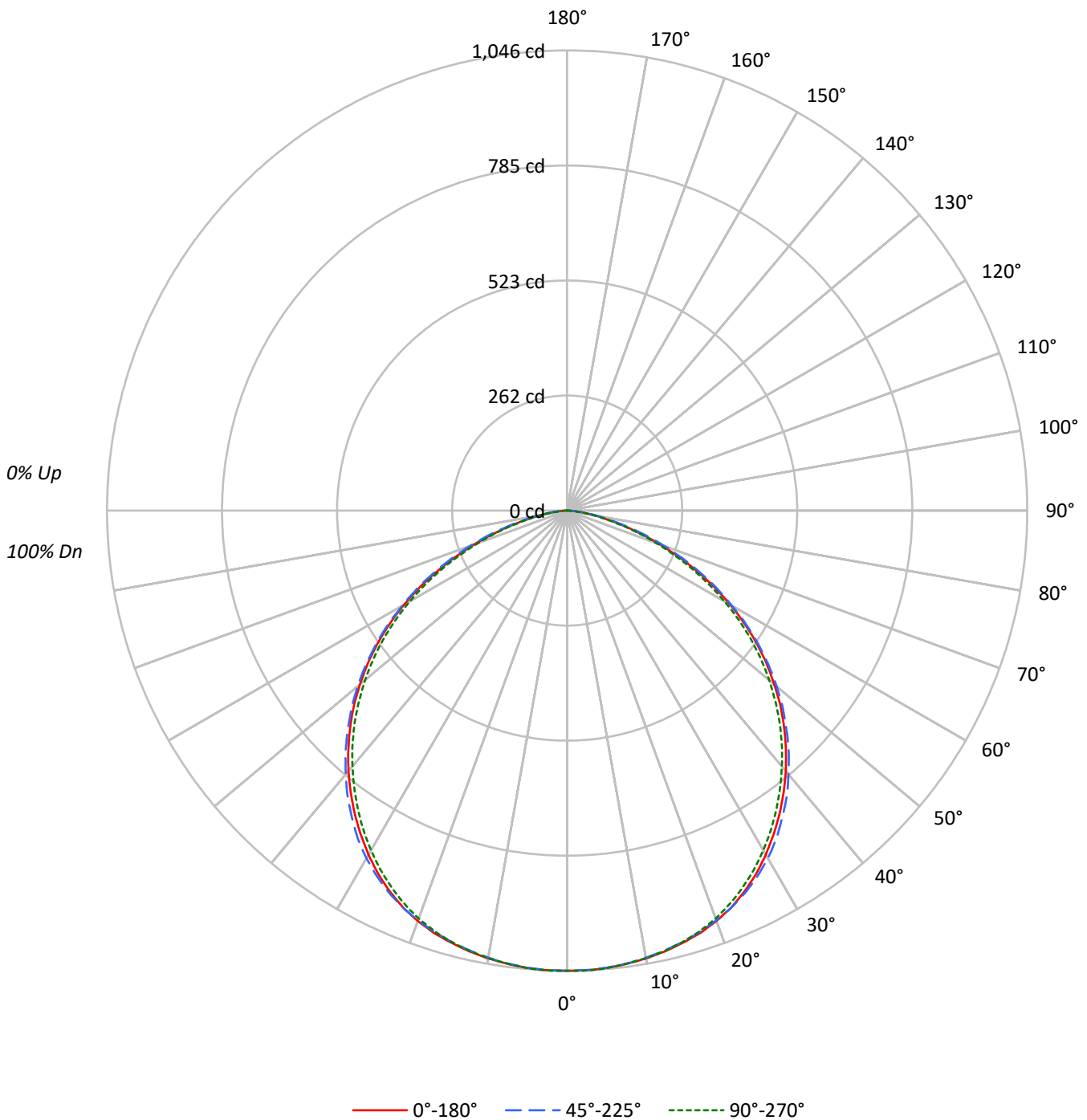
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2859.0 lumens
Efficiency: N/A
Efficacy: 110.8 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°	1407	1407	1407
5°	1409	1408	1410
10°	1412	1410	1411
15°	1417	1414	1414
20°	1421	1419	1413
25°	1417	1423	1403
30°	1403	1418	1386
35°	1383	1400	1362
40°	1358	1375	1334
45°	1328	1342	1300
50°	1286	1301	1255
55°	1234	1244	1197
60°	1151	1165	1112
65°	1038	1064	997
70°	881	920	846
75°	683	732	651
80°	508	530	460
85°	313	335	290



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.2	3.5
10°-20°	286.8	10.0
20°-30°	439.3	15.4
30°-40°	528.5	18.5
40°-50°	538.9	18.8
50°-60°	467.2	16.3
60°-70°	323.9	11.3
70°-80°	147.9	5.2
80°-90°	27.3	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°	825.4	28.9
0°-40°	1353.8	47.4
0°-60°	2359.9	82.5
0°-90°	2859.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2859.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1046	1046	1046	1046	1046	
5°	1043	1043	1043	1042	1044	99
15°	1017	1017	1015	1014	1015	287
25°	955	957	958	950	945	440
35°	842	851	852	841	829	526
45°	698	706	705	696	683	538
55°	526	529	530	518	510	469
65°	326	333	334	323	313	322
75°	131	138	141	136	125	144
85°	20	21	22	21	19	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1046.0	1046.0	1046.0	1046.0	1046.0
2.5°	1046.0	1046.0	1045.4	1044.8	1046.5
5°	1043.4	1043.4	1042.8	1042.2	1043.7
7.5°	1039.3	1039.0	1038.4	1037.9	1038.7
10°	1033.5	1033.2	1032.1	1031.8	1032.9
12.5°	1026.3	1026.0	1024.2	1024.2	1025.1
15°	1017.0	1016.7	1015.0	1014.1	1015.3
17.5°	1006.6	1006.3	1004.2	1001.9	1002.5
20°	992.7	992.7	991.2	987.7	986.9
22.5°	975.9	976.7	976.7	970.1	967.4
25°	954.7	957.3	958.2	949.8	944.8
27.5°	930.7	934.7	937.0	926.3	919.9
30°	903.1	909.8	912.7	901.1	891.8
32.5°	873.0	881.4	884.9	873.6	861.7
35°	841.7	850.7	852.4	841.4	829.0
37.5°	808.4	817.7	820.0	810.1	794.8
40°	773.3	782.6	782.6	774.5	759.4
42.5°	736.2	746.1	745.8	735.9	722.3
45°	697.7	706.4	705.2	695.7	683.2
47.5°	658.0	663.5	665.0	653.7	641.8
50°	614.5	620.0	621.5	608.7	599.5
52.5°	571.7	575.1	577.2	562.4	555.7
55°	525.9	529.1	530.5	517.5	510.2
57.5°	477.5	481.6	483.3	470.3	462.1
60°	427.9	432.3	432.9	420.7	413.2
62.5°	377.5	383.3	384.5	372.3	363.3
65°	326.0	332.9	334.1	322.8	313.2
67.5°	274.4	283.7	283.9	274.7	263.4
70°	224.0	234.1	233.8	226.0	215.0
72.5°	175.9	185.1	187.2	179.9	169.2
75°	131.3	138.5	140.8	136.2	125.2
77.5°	93.3	100.0	102.0	97.6	89.5
80°	65.5	65.8	68.4	64.9	59.4
82.5°	40.6	40.0	40.9	39.4	36.2
85°	20.3	20.9	21.7	20.6	18.8
87.5°	7.0	7.2	7.8	7.8	7.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)