

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: P412846

Luminaire Tested: **24PD-35-PP3-L940**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412846
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-35-PP3-L940
Description: 3500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

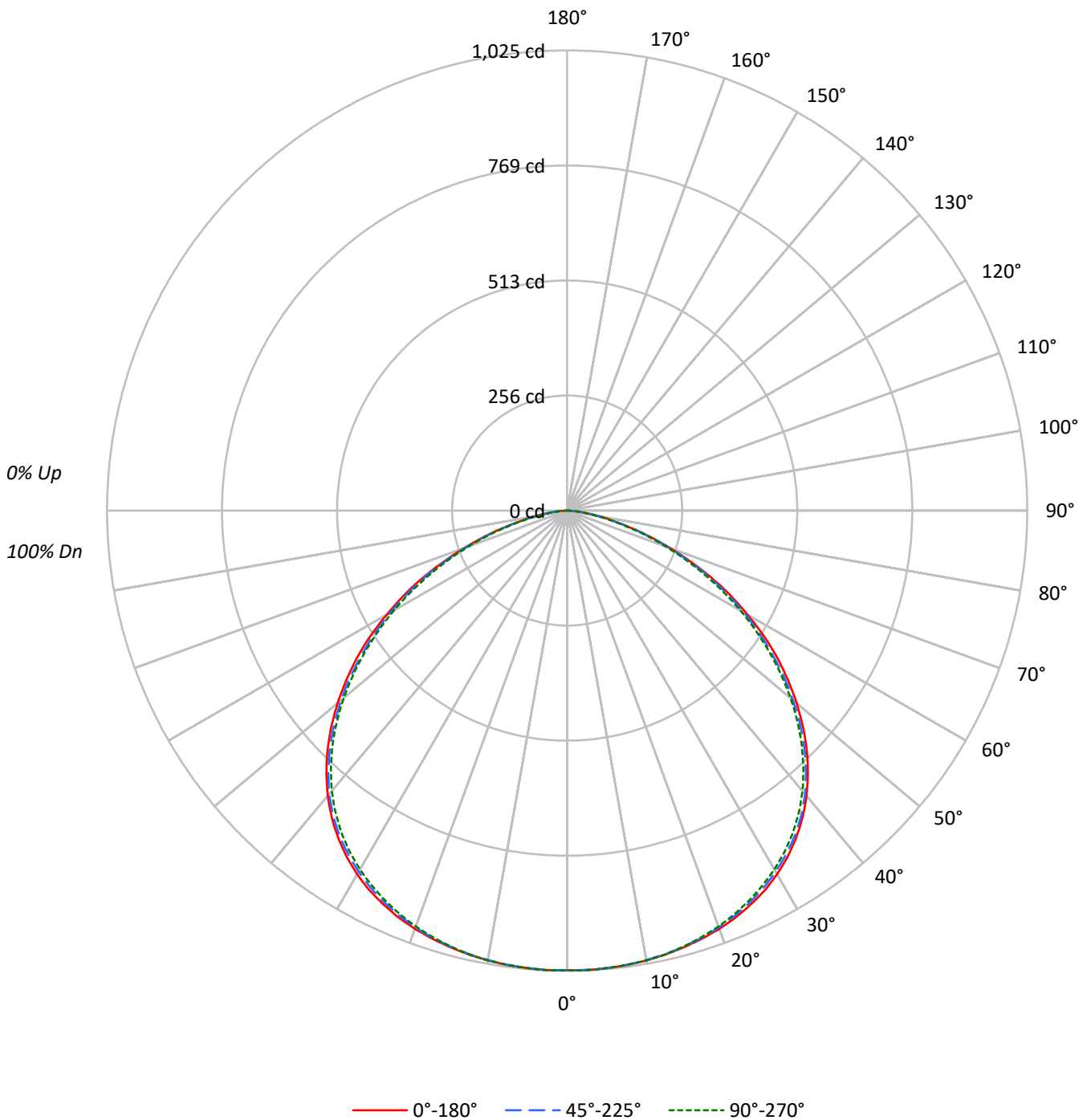
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2980.0 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.33 / 1.43
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	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	63	60
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1378	1378	1378
5°	1382	1381	1382
10°	1390	1389	1390
15°	1403	1400	1400
20°	1420	1415	1411
25°	1437	1430	1423
30°	1453	1443	1434
35°	1461	1452	1439
40°	1457	1448	1432
45°	1436	1422	1406
50°	1397	1375	1360
55°	1339	1307	1290
60°	1248	1226	1201
65°	1131	1108	1076
70°	965	948	917
75°	754	746	711
80°	556	533	503
85°	335	335	313



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.4	3.3
10°-20°	284.3	9.5
20°-30°	444.4	14.9
30°-40°	552.3	18.5
40°-50°	575.5	19.3
50°-60°	499.4	16.8
60°-70°	343.4	11.5
70°-80°	154.9	5.2
80°-90°	28.4	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°	826.2	27.7
0°-40°	1378.5	46.3
0°-60°	2453.3	82.3
0°-90°	2980.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2980.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1024	1024	1024	1024	1024	
5°	1023	1023	1023	1022	1023	97
15°	1007	1007	1005	1004	1005	285
25°	968	968	963	959	959	447
35°	890	890	884	879	876	556
45°	755	755	748	742	739	581
55°	571	568	557	551	550	509
65°	355	354	348	340	338	351
75°	145	146	144	140	137	158
85°	22	21	22	21	20	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1024.1	1024.1	1024.1	1024.1	1024.1
2.5°	1024.4	1024.4	1023.8	1022.9	1025.0
5°	1022.9	1023.2	1022.7	1021.8	1023.2
7.5°	1020.9	1021.2	1020.3	1019.4	1020.6
10°	1017.6	1017.3	1016.4	1015.8	1017.3
12.5°	1012.8	1012.5	1011.6	1011.0	1012.2
15°	1006.9	1006.9	1005.4	1004.5	1004.8
17.5°	999.7	999.7	997.6	995.6	996.1
20°	991.4	991.1	988.1	986.0	985.7
22.5°	981.0	981.0	976.8	974.1	973.2
25°	968.2	967.9	963.1	959.2	958.6
27.5°	953.6	953.0	947.3	943.4	941.9
30°	935.4	934.8	928.8	924.7	922.9
32.5°	914.0	914.8	908.0	903.2	901.4
35°	889.5	889.5	884.2	879.1	876.1
37.5°	861.5	861.5	856.5	851.4	847.8
40°	829.7	830.0	824.6	818.4	815.4
42.5°	793.9	794.5	787.4	782.3	779.0
45°	754.9	755.2	747.5	741.8	739.1
47.5°	712.6	712.0	703.4	698.6	696.0
50°	667.4	666.2	656.7	652.2	649.8
52.5°	620.0	617.6	609.3	602.8	600.7
55°	570.9	567.6	557.2	550.6	550.0
57.5°	519.7	515.8	507.2	500.9	498.5
60°	463.7	462.8	455.6	448.2	446.4
62.5°	411.3	408.6	402.3	393.4	392.5
65°	355.3	353.8	348.1	339.8	338.0
67.5°	297.5	299.0	294.2	286.8	284.4
70°	245.4	246.3	240.9	234.1	233.2
72.5°	193.0	194.5	190.0	185.5	184.6
75°	145.0	145.6	143.5	139.7	136.7
77.5°	103.0	105.1	102.7	100.1	97.7
80°	71.8	68.5	68.8	67.6	64.9
82.5°	43.2	41.7	41.4	40.2	39.0
85°	21.7	21.4	21.7	21.4	20.3
87.5°	7.1	7.7	8.0	8.0	7.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)