

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: P393475

Luminaire Tested: **24EN-LD2-40-UNV-L82765-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393475
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-33)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24EN-LD2-40-UNV-L82765-W2A-1-U (3000K)
Description: 2X4 ENCOUNTER, 4000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3715.3 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.28 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

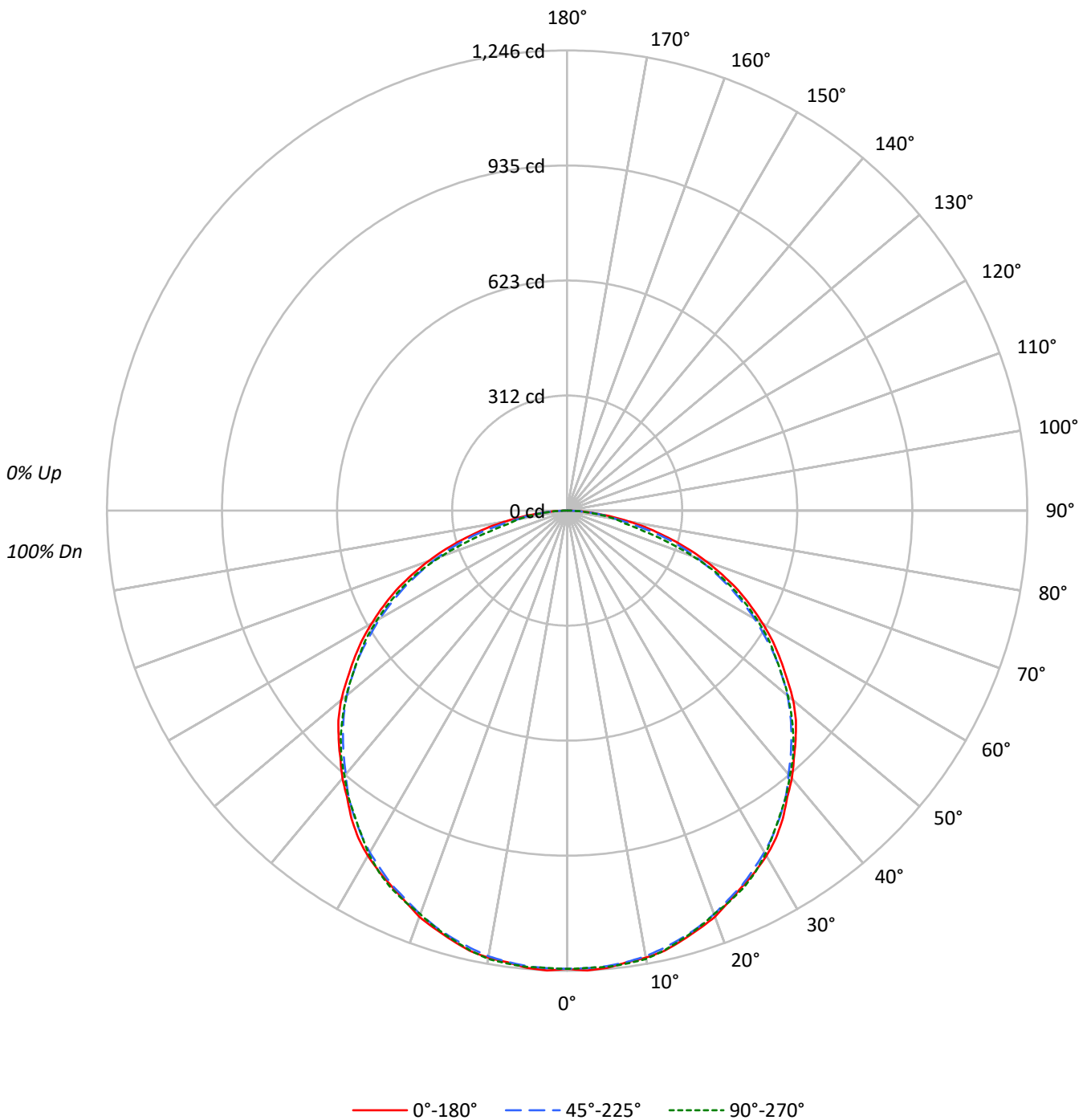
Input Watts (W): 28.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	36	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1670	1670	1670
5°	1679	1672	1675
10°	1679	1674	1684
15°	1678	1670	1674
20°	1676	1665	1665
25°	1667	1663	1675
30°	1677	1660	1669
35°	1672	1654	1651
40°	1663	1638	1648
45°	1665	1634	1649
50°	1672	1630	1634
55°	1654	1612	1614
60°	1644	1577	1602
65°	1629	1533	1568
70°	1570	1469	1429
75°	1469	1368	1116
80°	1308	1059	1044
85°	1034	977	878



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.8	3.2
10°-20°	338.7	9.1
20°-30°	517.1	13.9
30°-40°	630.9	17.0
40°-50°	666.2	17.9
50°-60°	617.7	16.6
60°-70°	483.9	13.0
70°-80°	270.8	7.3
80°-90°	72.3	1.9
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°	973.7	26.2
0°-40°	1604.6	43.2
0°-60°	2888.4	77.7
0°-90°	3715.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3715.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1241	1241	1241	1241	1241	
5°	1243	1243	1238	1239	1240	118
15°	1204	1199	1199	1196	1202	340
25°	1123	1123	1120	1118	1128	519
35°	1018	1009	1007	1006	1005	636
45°	875	867	858	857	867	676
55°	705	696	687	687	688	632
65°	512	496	482	484	492	503
75°	282	274	263	228	215	300
85°	67	64	63	60	57	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1241.0	1241.0	1241.0	1241.0	1241.0
2.5°	1246.5	1243.7	1240.1	1241.0	1239.2
5°	1242.8	1242.8	1238.2	1239.2	1240.1
7.5°	1233.7	1234.6	1232.7	1229.1	1237.3
10°	1229.1	1222.7	1225.4	1218.1	1232.7
12.5°	1220.8	1210.7	1212.6	1207.1	1219.0
15°	1204.3	1198.8	1198.8	1196.1	1201.6
17.5°	1187.8	1184.1	1182.3	1184.1	1184.1
20°	1170.4	1167.6	1163.0	1166.7	1163.0
22.5°	1145.6	1147.4	1140.1	1148.4	1146.5
25°	1122.7	1122.7	1119.9	1118.1	1128.2
27.5°	1102.5	1096.1	1094.2	1090.6	1103.4
30°	1079.6	1067.6	1068.6	1063.1	1074.1
32.5°	1052.0	1038.3	1039.2	1033.7	1038.3
35°	1018.1	1008.9	1007.1	1006.2	1005.3
37.5°	978.7	977.8	973.2	975.9	974.1
40°	946.6	944.7	932.8	935.6	938.3
42.5°	909.0	906.2	896.1	898.0	905.3
45°	875.0	866.8	858.5	856.7	866.8
47.5°	840.2	827.3	820.0	814.5	824.6
50°	798.9	787.9	778.7	773.2	780.6
52.5°	751.2	742.0	732.9	731.0	733.8
55°	705.3	696.2	687.0	687.0	687.9
57.5°	661.3	649.4	635.6	638.4	645.7
60°	610.9	599.9	586.1	586.1	595.3
62.5°	561.3	547.6	533.8	535.7	544.8
65°	511.8	496.2	481.5	484.3	492.5
67.5°	454.9	441.2	427.4	431.1	435.7
70°	399.0	385.2	373.3	369.6	363.2
72.5°	342.1	331.1	321.0	300.8	290.8
75°	282.5	274.2	263.2	228.4	214.6
77.5°	227.5	221.0	196.3	164.2	159.6
80°	168.8	168.8	136.7	133.9	134.8
82.5°	114.7	112.8	103.6	97.2	94.5
85°	67.0	64.2	63.3	59.6	56.9
87.5°	22.0	25.7	25.7	24.8	25.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)