

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: P393555

Luminaire Tested: **24EN-LD2-49-UNV-L92765-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393555
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-35)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24EN-LD2-49-UNV-L92765-W2A-1-U (3000K)
Description: 2X4 ENCOUNTER, 4900 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3825.9 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

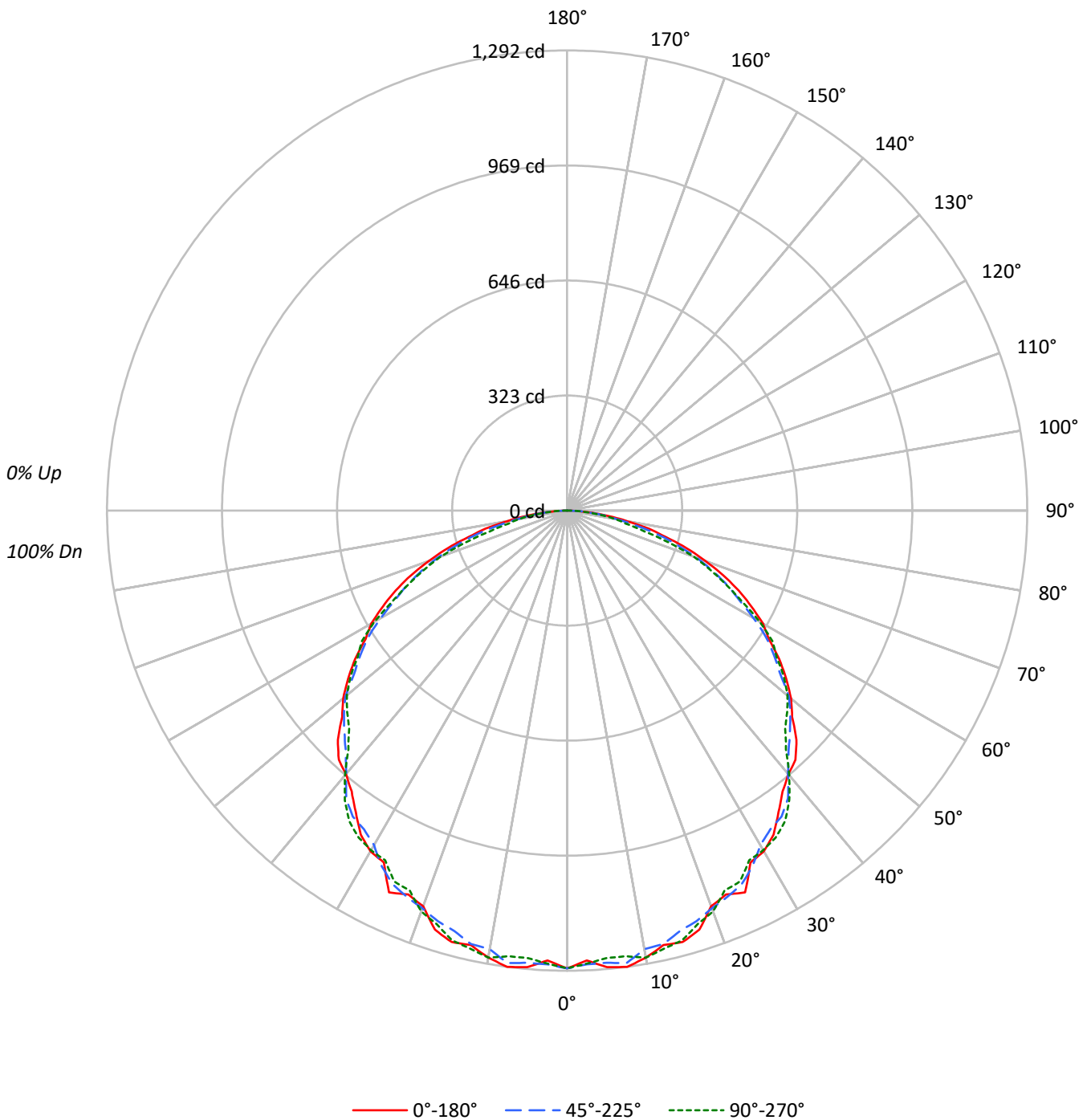
Input Watts (W): 34.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P393555

CATALOG NUMBER: 24EN-LD2-49-UNV-L92765-W2A-1-U (3000K)

Luminous Intensity Polar Plot





TEST NUMBER: P393555

CATALOG NUMBER: 24EN-LD2-49-UNV-L92765-W2A-1-U (3000K)

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	79	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	41	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	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1729	1729	1729
5°	1738	1721	1703
10°	1741	1708	1741
15°	1747	1703	1739
20°	1693	1701	1715
25°	1756	1719	1705
30°	1716	1685	1710
35°	1699	1723	1751
40°	1697	1694	1704
45°	1732	1682	1647
50°	1718	1702	1690
55°	1705	1663	1685
60°	1708	1629	1681
65°	1691	1580	1568
70°	1620	1520	1486
75°	1485	1400	1167
80°	1313	1110	1074
85°	1087	980	908



TEST NUMBER: P393555

CATALOG NUMBER: 24EN-LD2-49-UNV-L92765-W2A-1-U (3000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.9	3.2
10°-20°	349.3	9.1
20°-30°	529.3	13.8
30°-40°	651.6	17.0
40°-50°	685.4	17.9
50°-60°	637.7	16.7
60°-70°	498.4	13.0
70°-80°	279.3	7.3
80°-90°	73.9	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°	999.5	26.1
0°-40°	1651.1	43.2
0°-60°	2974.2	77.7
0°-90°	3825.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3825.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1285	1285	1285	1285	1285	
5°	1287	1273	1274	1255	1261	122
15°	1254	1239	1222	1236	1249	351
25°	1183	1142	1158	1133	1149	532
35°	1034	1047	1049	1033	1066	649
45°	910	901	884	885	866	697
55°	727	722	709	708	718	649
65°	531	516	496	499	492	523
75°	286	280	269	238	224	307
85°	70	64	64	57	59	81
90°	0	0	0	0	0	



TEST NUMBER: P393555

CATALOG NUMBER: 24EN-LD2-49-UNV-L92765-W2A-1-U (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1285.1	1285.1	1285.1	1285.1	1285.1
2.5°	1264.2	1289.0	1275.0	1291.3	1272.7
5°	1286.6	1272.7	1274.3	1254.9	1261.1
7.5°	1292.1	1240.2	1281.2	1260.3	1261.9
10°	1274.3	1251.0	1250.3	1249.5	1274.3
12.5°	1249.5	1258.8	1246.4	1234.8	1259.5
15°	1254.1	1239.4	1222.4	1235.5	1248.7
17.5°	1234.0	1227.0	1208.5	1242.5	1217.7
20°	1182.1	1209.2	1188.3	1206.9	1197.6
22.5°	1166.6	1189.1	1174.4	1186.0	1155.0
25°	1182.9	1141.9	1158.1	1133.4	1148.8
27.5°	1114.0	1106.3	1126.4	1117.9	1107.0
30°	1104.7	1092.3	1084.6	1085.4	1100.8
32.5°	1078.4	1065.2	1061.4	1068.3	1089.2
35°	1034.3	1046.7	1049.0	1032.7	1066.0
37.5°	994.0	1003.3	1018.8	1018.0	1025.0
40°	966.1	982.4	964.6	972.3	970.0
42.5°	949.1	934.4	919.7	924.3	909.6
45°	910.4	901.1	884.1	884.9	865.5
47.5°	857.0	845.4	850.0	836.9	837.6
50°	820.6	800.5	812.9	788.1	807.4
52.5°	774.9	766.4	754.0	746.3	767.2
55°	726.9	721.5	709.1	707.6	718.4
57.5°	671.2	666.5	662.7	661.9	683.6
60°	634.8	617.0	605.4	602.3	624.7
62.5°	583.7	576.0	545.0	552.0	554.3
65°	531.1	515.6	496.2	499.3	492.4
67.5°	474.6	446.7	442.0	442.8	435.1
70°	411.8	395.6	386.3	380.9	377.8
72.5°	352.2	339.1	328.2	314.3	300.4
75°	285.7	279.5	269.4	237.7	224.5
77.5°	234.6	227.6	205.9	171.1	168.8
80°	169.5	173.4	143.2	137.8	138.6
82.5°	120.0	116.9	106.8	99.9	96.0
85°	70.4	63.5	63.5	57.3	58.8
87.5°	23.2	26.3	26.3	25.5	24.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)