

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: P393560

Luminaire Tested: **24EN-LD2-49-UNV-L92765-W2A-1-U (5700K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393560  
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 (5700K)  
Description: 2X4 ENCOUNTER, 4900 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4229.7 lumens  
Efficiency: N/A  
Efficacy: 122.2 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

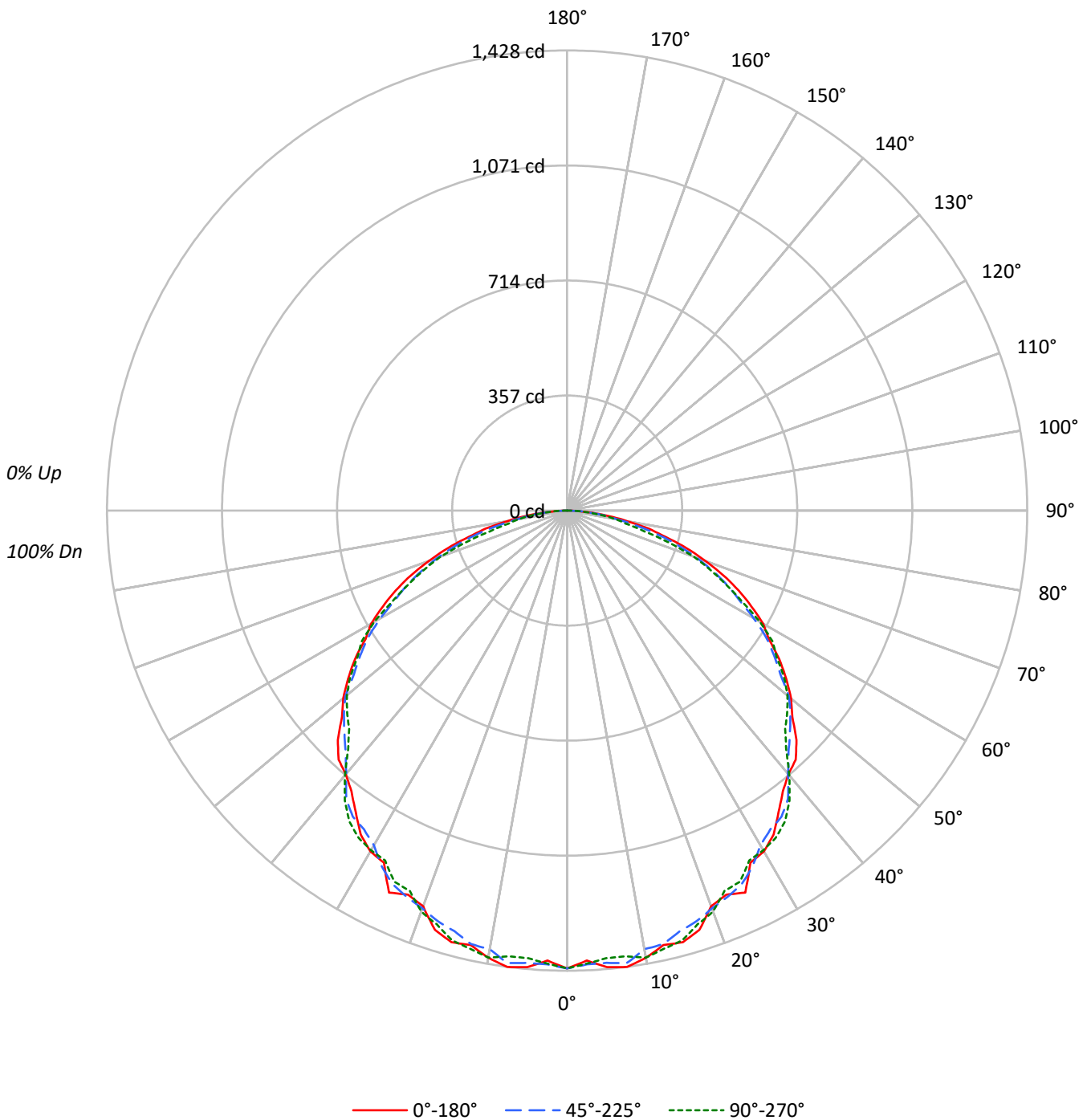
Input Watts (W): 34.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P393560

CATALOG NUMBER: 24EN-LD2-49-UNV-L92765-W2A-1-U (5700K)

### Luminous Intensity Polar Plot





TEST NUMBER: P393560

CATALOG NUMBER: 24EN-LD2-49-UNV-L92765-W2A-1-U (5700K)

**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°	1912	1912	1912
5°	1921	1903	1883
10°	1925	1888	1925
15°	1931	1882	1923
20°	1871	1881	1896
25°	1942	1901	1886
30°	1897	1863	1891
35°	1878	1905	1936
40°	1876	1873	1884
45°	1915	1860	1821
50°	1899	1881	1869
55°	1885	1839	1863
60°	1889	1801	1859
65°	1869	1747	1733
70°	1791	1680	1643
75°	1642	1548	1290
80°	1452	1227	1187
85°	1203	1084	1003



TEST NUMBER: P393560

CATALOG NUMBER: 24EN-LD2-49-UNV-L92765-W2A-1-U (5700K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.7	3.2
10°-20°	386.1	9.1
20°-30°	585.2	13.8
30°-40°	720.4	17.0
40°-50°	757.8	17.9
50°-60°	705.1	16.7
60°-70°	551.0	13.0
70°-80°	308.8	7.3
80°-90°	81.7	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°	1105.0	26.1
0°-40°	1825.4	43.2
0°-60°	3288.2	77.7
0°-90°	4229.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4229.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1421	1421	1421	1421	1421	
5°	1422	1407	1409	1387	1394	135
15°	1386	1370	1351	1366	1380	388
25°	1308	1262	1280	1253	1270	588
35°	1143	1157	1160	1142	1178	717
45°	1006	996	977	978	957	771
55°	804	798	784	782	794	717
65°	587	570	549	552	544	578
75°	316	309	298	263	248	339
85°	78	70	70	63	65	90
90°	0	0	0	0	0	



TEST NUMBER: P393560

CATALOG NUMBER: 24EN-LD2-49-UNV-L92765-W2A-1-U (5700K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1420.7	1420.7	1420.7	1420.7	1420.7
2.5°	1397.6	1425.0	1409.6	1427.6	1407.0
5°	1422.5	1407.0	1408.8	1387.4	1394.2
7.5°	1428.4	1371.1	1416.5	1393.4	1395.1
10°	1408.8	1383.1	1382.2	1381.4	1408.8
12.5°	1381.4	1391.6	1377.9	1365.1	1392.5
15°	1386.5	1370.2	1351.4	1366.0	1380.5
17.5°	1364.3	1356.6	1336.0	1373.7	1346.3
20°	1306.9	1336.9	1313.8	1334.3	1324.0
22.5°	1289.8	1314.6	1298.4	1311.2	1277.0
25°	1307.8	1262.4	1280.4	1253.0	1270.1
27.5°	1231.6	1223.0	1245.3	1235.9	1223.9
30°	1221.3	1207.6	1199.1	1199.9	1217.0
32.5°	1192.2	1177.7	1173.4	1181.1	1204.2
35°	1143.4	1157.1	1159.7	1141.7	1178.5
37.5°	1098.9	1109.2	1126.3	1125.5	1133.2
40°	1068.1	1086.1	1066.4	1075.0	1072.4
42.5°	1049.3	1033.0	1016.8	1021.9	1005.6
45°	1006.5	996.2	977.4	978.3	956.9
47.5°	947.4	934.6	939.7	925.2	926.0
50°	907.2	885.0	898.7	871.3	892.7
52.5°	856.7	847.3	833.6	825.1	848.2
55°	803.7	797.7	784.0	782.3	794.2
57.5°	742.0	736.9	732.6	731.8	755.7
60°	701.8	682.1	669.3	665.9	690.7
62.5°	645.3	636.8	602.5	610.2	612.8
65°	587.1	570.0	548.6	552.0	544.3
67.5°	524.6	493.8	488.7	489.6	481.0
70°	455.3	437.3	427.1	421.1	417.7
72.5°	389.4	374.9	362.9	347.5	332.1
75°	315.8	309.0	297.8	262.8	248.2
77.5°	259.3	251.6	227.7	189.1	186.6
80°	187.4	191.7	158.3	152.3	153.2
82.5°	132.7	129.2	118.1	110.4	106.1
85°	77.9	70.2	70.2	63.3	65.0
87.5°	25.7	29.1	29.1	28.2	27.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)