

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: P393714

Luminaire Tested: **24EN-LD2-74-UNV-L92765-W2A-1-U (2700K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393714  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-40)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24EN-LD2-74-UNV-L92765-W2A-1-U (2700K)  
Description: 2X4 ENCOUNTER, 7400 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5531.9 lumens  
Efficiency: N/A  
Efficacy: 101.1 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

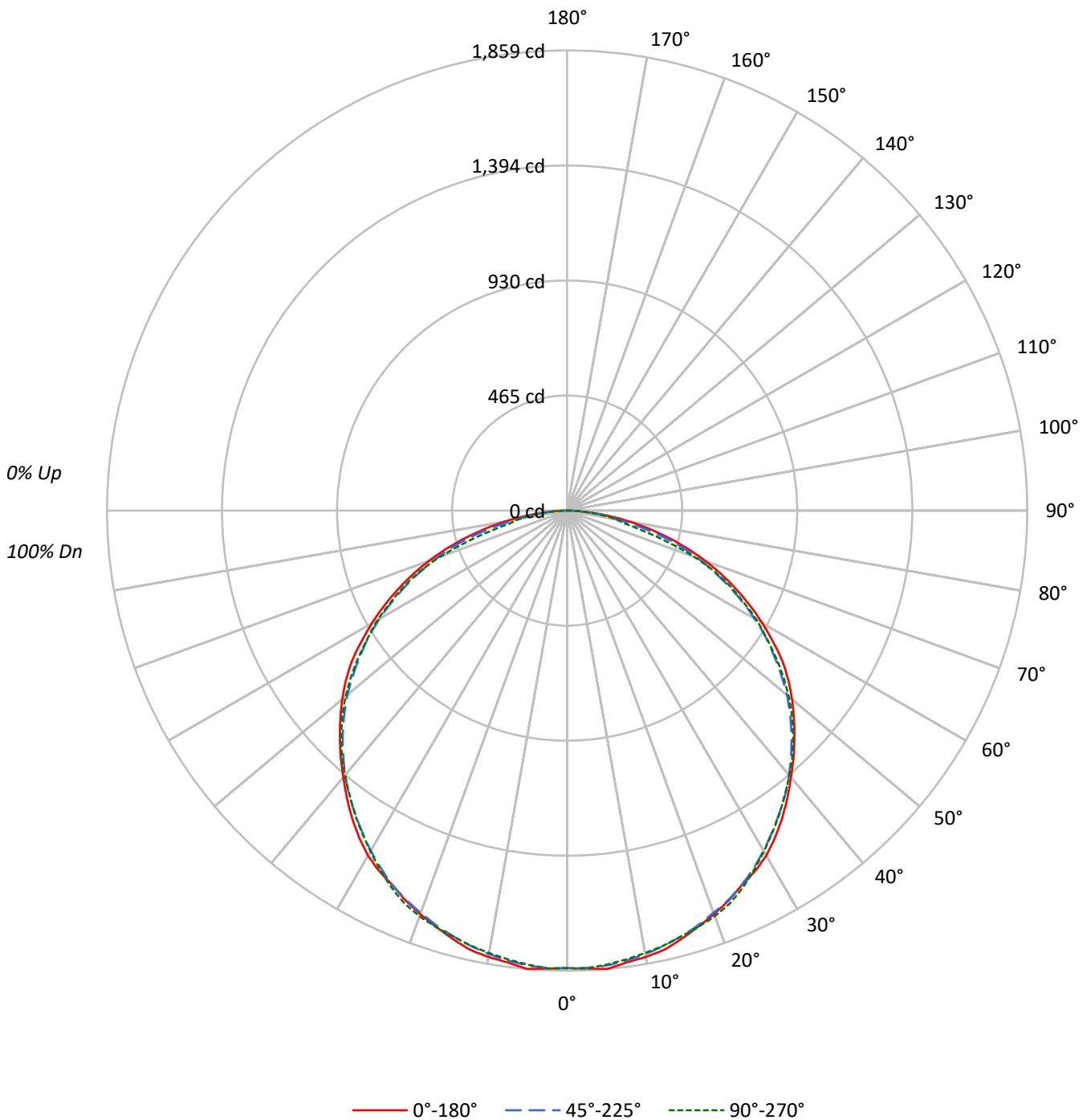
Input Watts (W): 54.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83					83			
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69					69			
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29					29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23					23			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2487	2487	2487
5°	2511	2492	2487
10°	2502	2485	2479
15°	2494	2480	2481
20°	2485	2476	2497
25°	2479	2478	2494
30°	2500	2465	2470
35°	2489	2453	2456
40°	2470	2451	2452
45°	2471	2441	2458
50°	2482	2426	2446
55°	2493	2392	2410
60°	2452	2355	2379
65°	2406	2287	2325
70°	2332	2205	2155
75°	2204	2025	1662
80°	1966	1564	1535
85°	1541	1448	1332



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.3	3.2
10°-20°	503.4	9.1
20°-30°	769.5	13.9
30°-40°	938.2	17.0
40°-50°	992.9	17.9
50°-60°	920.2	16.6
60°-70°	721.9	13.1
70°-80°	402.8	7.3
80°-90°	107.7	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°	1448.2	26.2
0°-40°	2386.3	43.1
0°-60°	4299.5	77.7
0°-90°	5531.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5531.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1848	1848	1848	1848	1848	
5°	1859	1842	1845	1841	1841	176
15°	1791	1784	1780	1779	1781	505
25°	1670	1671	1669	1662	1680	772
35°	1515	1497	1494	1499	1495	948
45°	1298	1297	1283	1275	1292	1003
55°	1063	1034	1020	1022	1027	945
65°	756	742	718	726	730	747
75°	424	407	390	341	320	447
85°	100	95	94	88	86	119
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1848.5	1848.5	1848.5	1848.5	1848.5
2.5°	1851.5	1847.0	1849.2	1842.5	1851.5
5°	1859.0	1841.7	1844.7	1841.0	1841.0
7.5°	1841.0	1833.5	1833.5	1834.2	1829.0
10°	1831.2	1821.5	1819.2	1821.5	1814.7
12.5°	1817.0	1802.7	1801.2	1802.7	1799.7
15°	1790.7	1784.0	1780.2	1779.4	1780.9
17.5°	1762.2	1760.7	1756.9	1753.9	1763.7
20°	1735.2	1736.7	1729.2	1726.9	1744.2
22.5°	1705.1	1705.1	1702.1	1694.6	1717.9
25°	1669.9	1671.4	1669.1	1662.4	1679.6
27.5°	1642.9	1631.6	1629.3	1627.1	1636.1
30°	1609.1	1588.8	1586.6	1587.3	1589.6
32.5°	1564.8	1544.5	1540.8	1545.3	1542.3
35°	1515.3	1497.3	1493.5	1498.8	1495.0
37.5°	1462.0	1451.5	1447.0	1447.0	1445.5
40°	1406.4	1401.9	1395.2	1392.9	1395.9
42.5°	1353.9	1353.2	1338.9	1335.9	1347.2
45°	1298.4	1296.9	1282.6	1275.1	1291.6
47.5°	1242.8	1236.8	1221.1	1213.6	1232.3
50°	1185.8	1171.5	1158.8	1156.5	1168.5
52.5°	1126.5	1104.0	1089.0	1087.5	1099.5
55°	1062.7	1034.2	1019.9	1022.2	1027.4
57.5°	986.9	965.1	950.9	950.1	953.1
60°	911.1	892.4	875.1	877.3	884.1
62.5°	833.8	818.8	797.8	804.5	804.5
65°	755.8	742.2	718.2	725.7	730.2
67.5°	676.2	661.2	637.9	641.7	646.2
70°	592.9	576.4	560.6	546.4	547.9
72.5°	508.8	490.8	480.3	444.3	433.8
75°	424.0	406.8	389.5	340.7	319.7
77.5°	337.7	328.0	294.9	242.4	234.9
80°	253.7	249.2	201.9	198.9	198.1
82.5°	175.6	168.1	153.9	144.8	142.6
85°	99.8	94.6	93.8	87.8	86.3
87.5°	35.3	37.5	38.3	38.3	38.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)