

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: P393686

Luminaire Tested: **24EN-LD2-70-UNV-L92765-W2A-1-U (4500K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393686  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-39)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24EN-LD2-70-UNV-L92765-W2A-1-U (4500K)  
Description: 2X4 ENCOUNTER, 7000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5760.6 lumens  
Efficiency: N/A  
Efficacy: 112.3 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.4  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

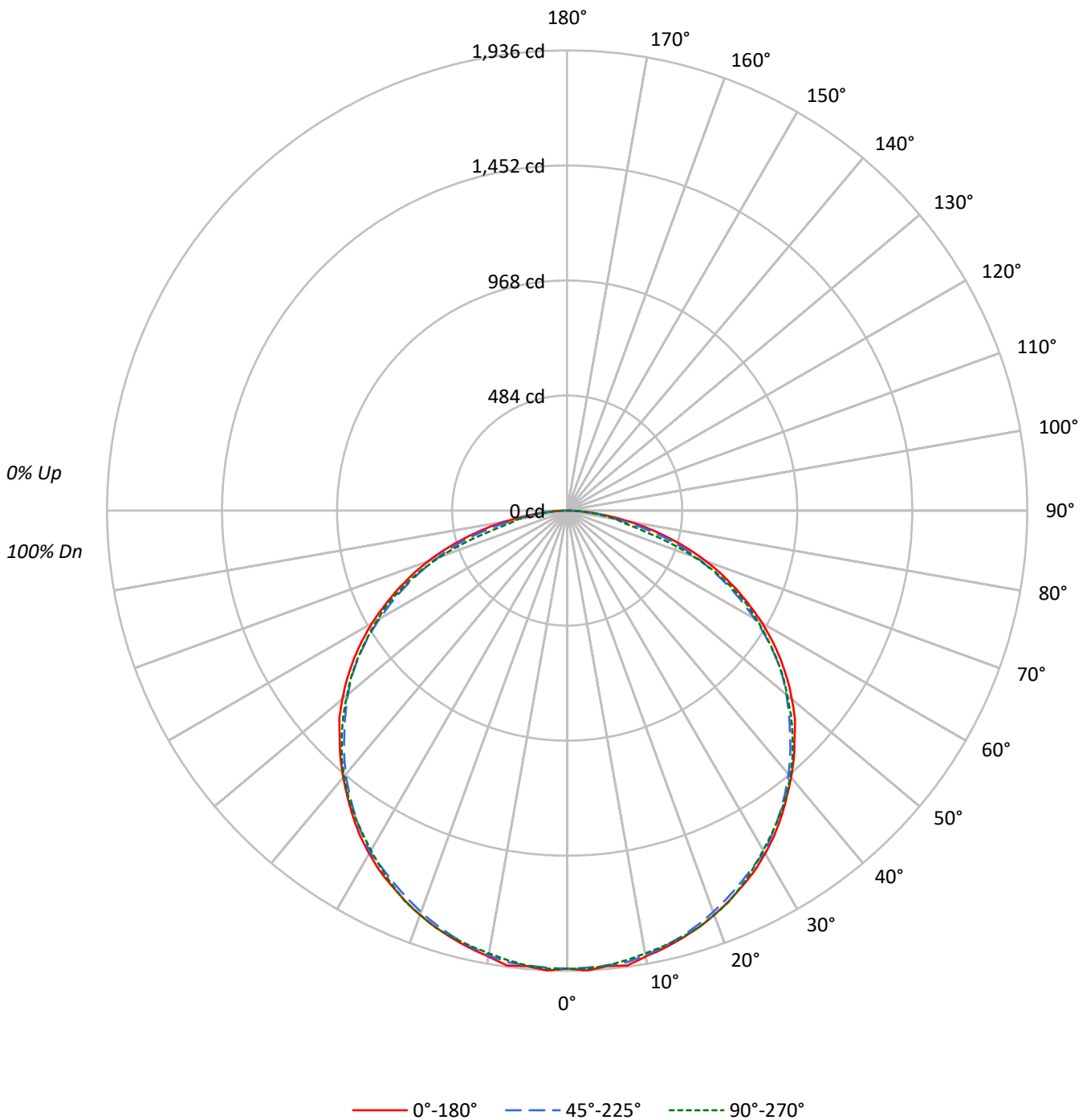
Input Watts (W): 51.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2593	2593	2593
5°	2598	2594	2595
10°	2603	2596	2585
15°	2595	2585	2591
20°	2592	2574	2591
25°	2588	2565	2582
30°	2588	2577	2564
35°	2581	2560	2565
40°	2574	2545	2564
45°	2575	2523	2551
50°	2584	2521	2529
55°	2576	2509	2515
60°	2551	2451	2485
65°	2503	2380	2430
70°	2447	2285	2233
75°	2298	2114	1738
80°	2037	1649	1610
85°	1624	1484	1369



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	182.7	3.2
10°-20°	524.0	9.1
20°-30°	800.2	13.9
30°-40°	976.6	17.0
40°-50°	1032.4	17.9
50°-60°	960.1	16.7
60°-70°	751.3	13.0
70°-80°	421.6	7.3
80°-90°	111.8	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°	1506.9	26.2
0°-40°	2483.5	43.1
0°-60°	4475.9	77.7
0°-90°	5760.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5760.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1927	1927	1927	1927	1927	
5°	1924	1922	1921	1919	1922	184
15°	1863	1857	1856	1848	1860	526
25°	1743	1734	1728	1738	1739	804
35°	1572	1565	1558	1553	1562	983
45°	1353	1342	1326	1334	1341	1046
55°	1098	1084	1070	1065	1072	980
65°	786	769	748	752	763	778
75°	442	426	407	359	334	467
85°	105	98	96	90	89	123
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1927.2	1927.2	1927.2	1927.2	1927.2
2.5°	1936.3	1923.9	1924.8	1928.9	1928.9
5°	1923.9	1921.5	1920.6	1919.0	1921.5
7.5°	1930.5	1914.1	1916.5	1906.7	1907.5
10°	1905.0	1898.5	1900.1	1892.7	1891.9
12.5°	1886.1	1883.7	1879.6	1872.2	1876.3
15°	1863.1	1857.4	1855.7	1847.5	1859.9
17.5°	1839.3	1830.3	1827.8	1822.9	1839.3
20°	1810.6	1802.3	1797.4	1796.6	1809.7
22.5°	1778.5	1770.3	1762.9	1768.7	1780.2
25°	1743.2	1734.2	1727.6	1737.5	1739.1
27.5°	1708.7	1698.0	1691.4	1697.2	1696.4
30°	1666.0	1656.9	1658.6	1652.8	1650.4
32.5°	1621.6	1613.4	1609.3	1603.5	1606.0
35°	1571.5	1564.9	1558.4	1552.6	1561.7
37.5°	1518.1	1514.0	1505.0	1499.2	1513.2
40°	1465.5	1456.5	1449.1	1445.0	1459.8
42.5°	1412.1	1402.3	1389.1	1388.3	1403.9
45°	1353.0	1342.3	1325.9	1334.1	1340.7
47.5°	1300.4	1283.2	1265.1	1273.3	1277.4
50°	1234.7	1220.7	1204.3	1207.6	1208.4
52.5°	1168.2	1156.7	1141.1	1136.9	1144.3
55°	1098.3	1083.5	1069.6	1064.7	1072.0
57.5°	1024.4	1011.3	993.2	986.6	996.5
60°	948.0	930.7	911.0	911.0	923.4
62.5°	867.5	853.5	829.7	833.0	851.1
65°	786.2	768.9	747.6	751.7	763.2
67.5°	704.8	687.6	662.1	667.9	672.8
70°	621.9	600.5	580.8	575.0	567.6
72.5°	532.3	512.6	499.5	468.2	455.9
75°	442.0	425.5	406.6	359.0	334.3
77.5°	353.2	342.6	312.2	256.3	246.4
80°	262.9	257.9	212.8	208.7	207.8
82.5°	179.1	175.8	161.8	150.3	147.9
85°	105.2	97.8	96.1	89.5	88.7
87.5°	36.1	39.4	38.6	39.4	38.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)