

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: P393683

Luminaire Tested: **24EN-LD2-70-UNV-L92765-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393683
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 (3000K)
Description: 2X4 ENCOUNTER, 7000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5428.7 lumens
Efficiency: N/A
Efficacy: 106.4 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

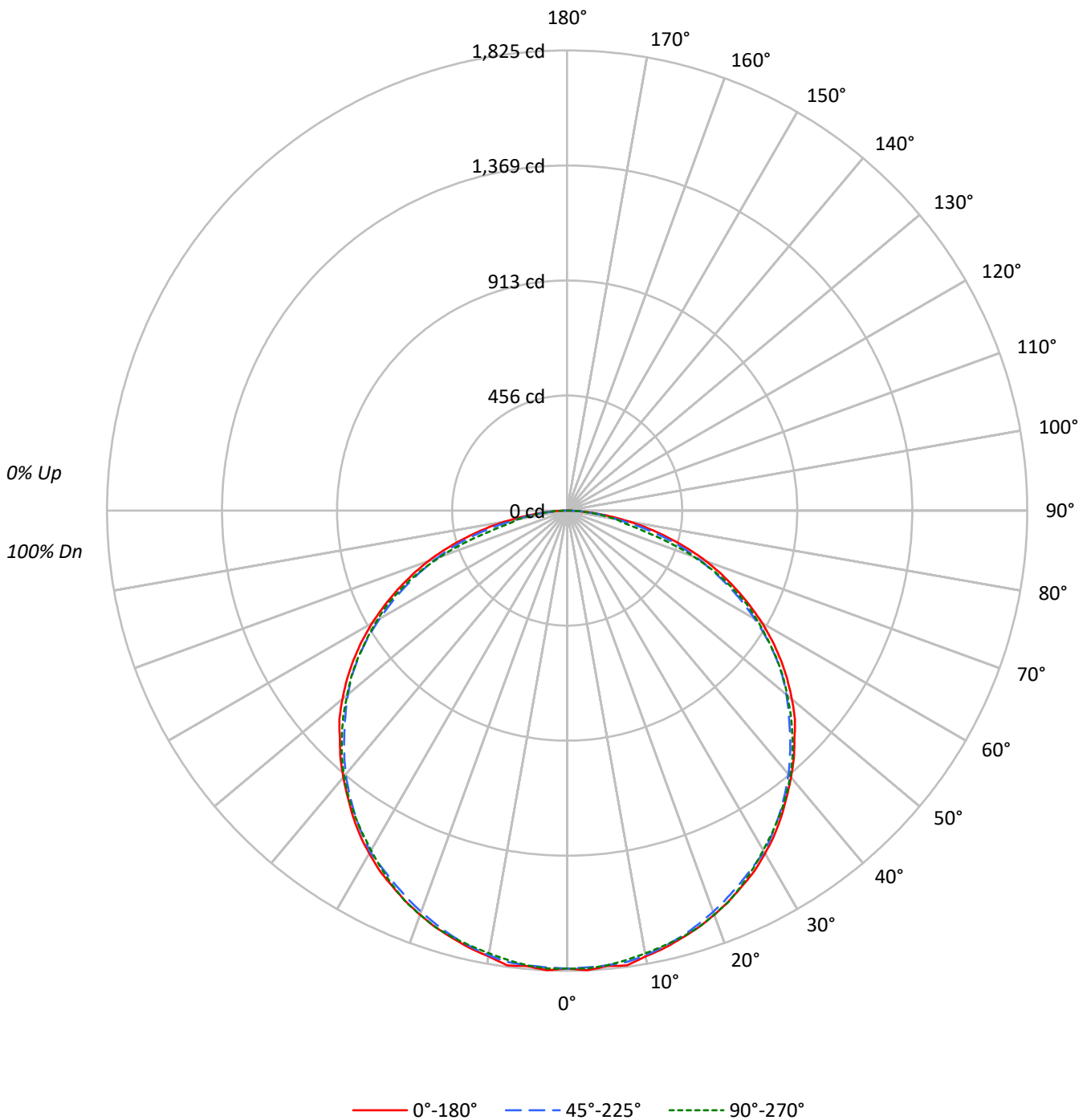
Input Watts (W): 51
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P393683

CATALOG NUMBER: 24EN-LD2-70-UNV-L92765-W2A-1-U (3000K)

Luminous Intensity Polar Plot





TEST NUMBER: P393683

CATALOG NUMBER: 24EN-LD2-70-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	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°	2444	2444	2444
5°	2449	2445	2446
10°	2453	2446	2436
15°	2446	2436	2441
20°	2443	2425	2442
25°	2439	2417	2433
30°	2439	2428	2416
35°	2433	2412	2417
40°	2426	2399	2416
45°	2426	2378	2404
50°	2436	2376	2384
55°	2428	2364	2370
60°	2404	2310	2341
65°	2359	2243	2290
70°	2305	2153	2104
75°	2165	1992	1638
80°	1919	1554	1518
85°	1530	1399	1291



TEST NUMBER: P393683

CATALOG NUMBER: 24EN-LD2-70-UNV-L92765-W2A-1-U (3000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.2	3.2
10°-20°	493.8	9.1
20°-30°	754.0	13.9
30°-40°	920.3	17.0
40°-50°	972.9	17.9
50°-60°	904.7	16.7
60°-70°	708.0	13.0
70°-80°	397.3	7.3
80°-90°	105.4	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°	1420.1	26.2
0°-40°	2340.4	43.1
0°-60°	4218.0	77.7
0°-90°	5428.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5428.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1816	1816	1816	1816	1816	
5°	1813	1811	1810	1808	1811	173
15°	1756	1750	1749	1741	1753	496
25°	1643	1634	1628	1637	1639	758
35°	1481	1475	1469	1463	1472	927
45°	1275	1265	1250	1257	1263	986
55°	1035	1021	1008	1003	1010	924
65°	741	725	704	708	719	733
75°	416	401	383	338	315	440
85°	99	92	91	84	84	116
90°	0	0	0	0	0	



TEST NUMBER: P393683

CATALOG NUMBER: 24EN-LD2-70-UNV-L92765-W2A-1-U (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1816.2	1816.2	1816.2	1816.2	1816.2
2.5°	1824.7	1813.1	1813.8	1817.7	1817.7
5°	1813.1	1810.7	1810.0	1808.4	1810.7
7.5°	1819.3	1803.8	1806.1	1796.8	1797.6
10°	1795.3	1789.1	1790.6	1783.6	1782.9
12.5°	1777.5	1775.1	1771.3	1764.3	1768.2
15°	1755.8	1750.4	1748.8	1741.1	1752.7
17.5°	1733.3	1724.8	1722.5	1717.8	1733.3
20°	1706.2	1698.5	1693.8	1693.1	1705.5
22.5°	1676.0	1668.3	1661.3	1666.8	1677.6
25°	1642.8	1634.2	1628.0	1637.3	1638.9
27.5°	1610.2	1600.2	1594.0	1599.4	1598.6
30°	1570.0	1561.5	1563.0	1557.6	1555.3
32.5°	1528.2	1520.4	1516.6	1511.1	1513.5
35°	1481.0	1474.8	1468.6	1463.1	1471.7
37.5°	1430.6	1426.8	1418.2	1412.8	1426.0
40°	1381.1	1372.6	1365.6	1361.7	1375.7
42.5°	1330.8	1321.5	1309.1	1308.3	1323.0
45°	1275.0	1265.0	1249.5	1257.2	1263.4
47.5°	1225.5	1209.2	1192.2	1199.9	1203.8
50°	1163.6	1150.4	1134.9	1138.0	1138.8
52.5°	1100.8	1090.0	1075.3	1071.4	1078.4
55°	1035.0	1021.1	1007.9	1003.3	1010.3
57.5°	965.4	953.0	936.0	929.8	939.0
60°	893.4	877.1	858.5	858.5	870.1
62.5°	817.5	804.3	781.9	785.0	802.0
65°	740.9	724.6	704.5	708.3	719.2
67.5°	664.2	648.0	624.0	629.4	634.0
70°	586.0	565.9	547.3	541.9	534.9
72.5°	501.7	483.1	470.7	441.3	429.7
75°	416.5	401.0	383.2	338.3	315.1
77.5°	332.9	322.8	294.2	241.5	232.2
80°	247.7	243.1	200.5	196.6	195.9
82.5°	168.8	165.7	152.5	141.7	139.3
85°	99.1	92.1	90.6	84.4	83.6
87.5°	34.1	37.2	36.4	37.2	36.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)