

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: P393575

Luminaire Tested: **24EN-LD2-54-UNV-L82765-W2A-1-U (5000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393575
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-36)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24EN-LD2-54-UNV-L82765-W2A-1-U (5000K)
Description: 2X4 ENCOUNTER, 5400 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5234.5 lumens
Efficiency: N/A
Efficacy: 136.0 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

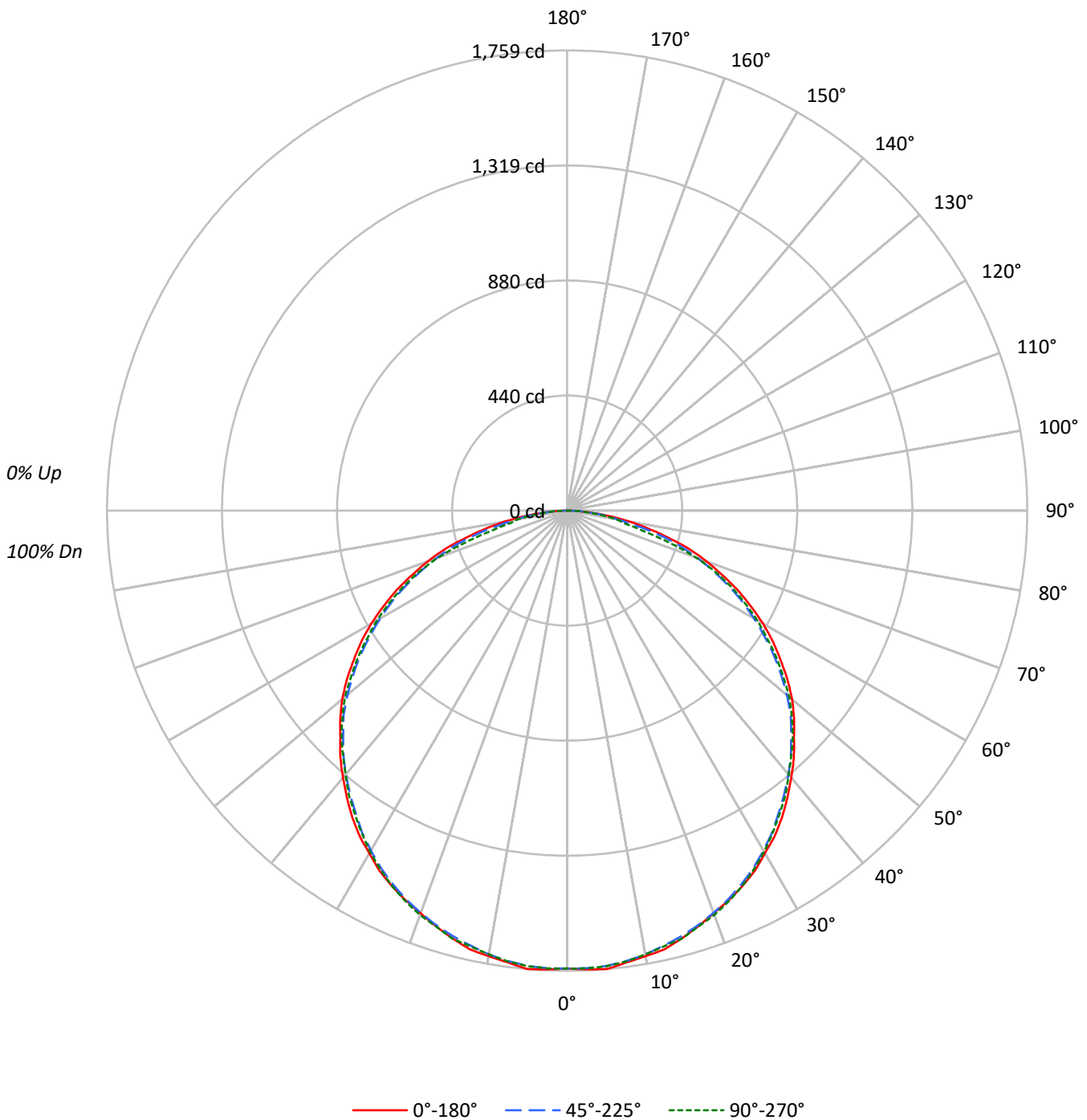
Input Watts (W): 38.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P393575

CATALOG NUMBER: 24EN-LD2-54-UNV-L82765-W2A-1-U (5000K)

Luminous Intensity Polar Plot





TEST NUMBER: P393575

CATALOG NUMBER: 24EN-LD2-54-UNV-L82765-W2A-1-U (5000K)

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	84	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	67	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°	2355	2355	2355
5°	2376	2359	2360
10°	2363	2354	2354
15°	2358	2346	2360
20°	2346	2343	2355
25°	2352	2339	2351
30°	2350	2330	2339
35°	2352	2315	2325
40°	2341	2311	2314
45°	2333	2304	2320
50°	2350	2294	2320
55°	2336	2264	2289
60°	2326	2220	2256
65°	2290	2167	2207
70°	2225	2089	2063
75°	2077	1927	1563
80°	1860	1518	1466
85°	1497	1349	1230



TEST NUMBER: P393575

CATALOG NUMBER: 24EN-LD2-54-UNV-L82765-W2A-1-U (5000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.0	3.2
10°-20°	476.4	9.1
20°-30°	726.9	13.9
30°-40°	887.0	16.9
40°-50°	938.6	17.9
50°-60°	870.9	16.6
60°-70°	683.4	13.1
70°-80°	383.6	7.3
80°-90°	101.7	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°	1369.3	26.2
0°-40°	2256.3	43.1
0°-60°	4065.8	77.7
0°-90°	5234.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5234.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1751	1751	1751	1751	1751	
5°	1759	1748	1747	1743	1748	167
15°	1693	1690	1684	1683	1694	478
25°	1584	1573	1576	1571	1584	730
35°	1432	1422	1410	1414	1415	895
45°	1226	1222	1211	1206	1220	949
55°	996	980	965	968	976	891
65°	719	700	681	681	693	709
75°	400	387	371	328	301	425
85°	97	88	87	81	80	112
90°	0	0	0	0	0	



TEST NUMBER: P393575

CATALOG NUMBER: 24EN-LD2-54-UNV-L82765-W2A-1-U (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1750.6	1750.6	1750.6	1750.6	1750.6
2.5°	1755.4	1749.6	1750.6	1748.7	1751.5
5°	1759.2	1747.7	1746.7	1742.9	1747.7
7.5°	1741.9	1738.1	1736.2	1735.2	1738.1
10°	1729.5	1722.7	1722.7	1723.7	1722.7
12.5°	1717.9	1708.3	1703.5	1706.4	1706.4
15°	1693.0	1690.1	1684.3	1683.4	1693.9
17.5°	1666.1	1668.0	1662.2	1661.3	1667.0
20°	1638.2	1637.3	1636.3	1631.5	1644.9
22.5°	1612.3	1607.5	1608.5	1602.7	1616.1
25°	1584.4	1572.9	1575.8	1571.0	1583.5
27.5°	1552.8	1539.3	1541.2	1541.2	1546.0
30°	1512.4	1500.9	1499.9	1505.7	1505.7
32.5°	1475.9	1464.4	1458.7	1459.6	1461.5
35°	1431.8	1422.2	1409.7	1413.5	1415.4
37.5°	1382.8	1378.0	1363.6	1363.6	1370.3
40°	1332.9	1326.1	1315.6	1312.7	1317.5
42.5°	1282.9	1276.2	1265.6	1260.8	1268.5
45°	1226.3	1221.5	1210.9	1206.1	1219.5
47.5°	1176.3	1165.8	1159.0	1155.2	1164.8
50°	1122.6	1107.2	1095.7	1097.6	1108.2
52.5°	1061.1	1046.7	1030.4	1034.2	1040.0
55°	995.8	980.4	965.1	968.0	975.6
57.5°	933.4	918.0	894.0	898.8	904.6
60°	864.2	843.1	824.9	827.8	838.3
62.5°	791.3	774.0	755.7	757.7	767.3
65°	719.2	700.0	680.8	680.8	693.3
67.5°	640.5	627.1	605.9	605.9	613.6
70°	565.6	548.3	531.0	519.5	524.3
72.5°	489.7	468.6	455.2	426.4	413.9
75°	399.5	387.0	370.7	327.5	300.6
77.5°	317.9	311.1	279.4	234.3	222.8
80°	240.1	235.3	195.9	189.2	189.2
82.5°	164.2	159.4	147.9	136.4	134.4
85°	97.0	88.3	87.4	80.7	79.7
87.5°	31.7	36.5	34.6	35.5	35.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)