

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: P393570

Luminaire Tested: **24EN-LD2-54-UNV-L82765-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393570
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 (2700K)
Description: 2X4 ENCOUNTER, 5400 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4951.9 lumens
Efficiency: N/A
Efficacy: 127.6 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

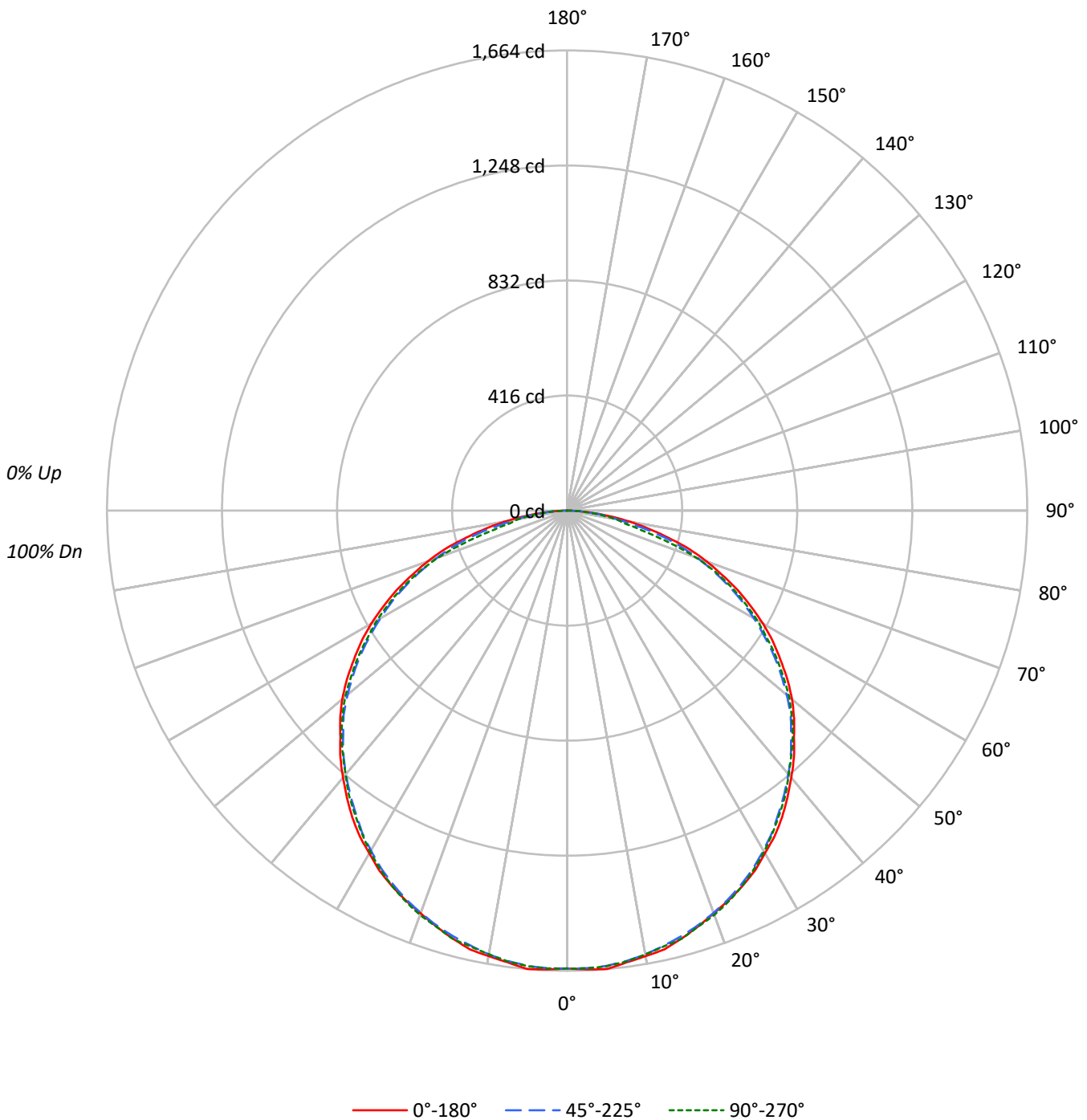
Input Watts (W): 38.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2228	2228	2228
5°	2248	2232	2233
10°	2235	2227	2227
15°	2231	2220	2232
20°	2219	2216	2228
25°	2225	2213	2224
30°	2223	2205	2213
35°	2225	2190	2199
40°	2215	2186	2189
45°	2207	2180	2195
50°	2223	2170	2194
55°	2210	2142	2165
60°	2200	2100	2134
65°	2166	2051	2088
70°	2105	1976	1951
75°	1965	1823	1478
80°	1760	1436	1387
85°	1417	1277	1164



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.0	3.2
10°-20°	450.7	9.1
20°-30°	687.7	13.9
30°-40°	839.1	16.9
40°-50°	887.9	17.9
50°-60°	823.9	16.6
60°-70°	646.5	13.1
70°-80°	362.9	7.3
80°-90°	96.2	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°	1295.4	26.2
0°-40°	2134.5	43.1
0°-60°	3846.3	77.7
0°-90°	4951.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4951.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1656	1656	1656	1656	1656	
5°	1664	1653	1652	1649	1653	158
15°	1602	1599	1593	1592	1602	452
25°	1499	1488	1491	1486	1498	691
35°	1354	1345	1334	1337	1339	847
45°	1160	1156	1146	1141	1154	898
55°	942	928	913	916	923	843
65°	680	662	644	644	656	671
75°	378	366	351	310	284	402
85°	92	84	83	76	75	106
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1656.1	1656.1	1656.1	1656.1	1656.1
2.5°	1660.6	1655.2	1656.1	1654.3	1657.0
5°	1664.2	1653.3	1652.4	1648.8	1653.3
7.5°	1647.9	1644.3	1642.4	1641.5	1644.3
10°	1636.1	1629.7	1629.7	1630.6	1629.7
12.5°	1625.2	1616.1	1611.6	1614.3	1614.3
15°	1601.6	1598.8	1593.4	1592.5	1602.5
17.5°	1576.1	1577.9	1572.5	1571.6	1577.0
20°	1549.8	1548.9	1548.0	1543.4	1556.1
22.5°	1525.3	1520.7	1521.6	1516.2	1528.9
25°	1498.9	1488.0	1490.7	1486.2	1498.0
27.5°	1468.9	1456.2	1458.0	1458.0	1462.6
30°	1430.8	1419.9	1419.0	1424.4	1424.4
32.5°	1396.3	1385.4	1379.9	1380.8	1382.6
35°	1354.5	1345.4	1333.6	1337.2	1339.0
37.5°	1308.1	1303.6	1290.0	1290.0	1296.3
40°	1260.9	1254.5	1244.5	1241.8	1246.4
42.5°	1213.7	1207.3	1197.3	1192.8	1200.0
45°	1160.1	1155.5	1145.5	1141.0	1153.7
47.5°	1112.8	1102.8	1096.5	1092.8	1101.9
50°	1062.0	1047.4	1036.5	1038.3	1048.3
52.5°	1003.8	990.2	974.7	978.4	983.8
55°	942.0	927.5	913.0	915.7	923.0
57.5°	883.0	868.5	845.7	850.3	855.7
60°	817.6	797.6	780.3	783.1	793.1
62.5°	748.5	732.2	714.9	716.8	725.8
65°	680.4	662.2	644.1	644.1	655.9
67.5°	605.9	593.2	573.2	573.2	580.5
70°	535.1	518.7	502.4	491.5	496.0
72.5°	463.3	443.3	430.6	403.3	391.5
75°	377.9	366.1	350.7	309.8	284.3
77.5°	300.7	294.3	264.4	221.7	210.8
80°	227.1	222.6	185.3	179.0	179.0
82.5°	155.3	150.8	139.9	129.0	127.2
85°	91.8	83.6	82.7	76.3	75.4
87.5°	30.0	34.5	32.7	33.6	33.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)