

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: P393624

Luminaire Tested: **24EN-LD2-58-UNV-L92765-W2A-1-U (5700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393624
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-37)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24EN-LD2-58-UNV-L92765-W2A-1-U (5700K)
Description: 2X4 ENCOUNTER, 5800 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4969.6 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

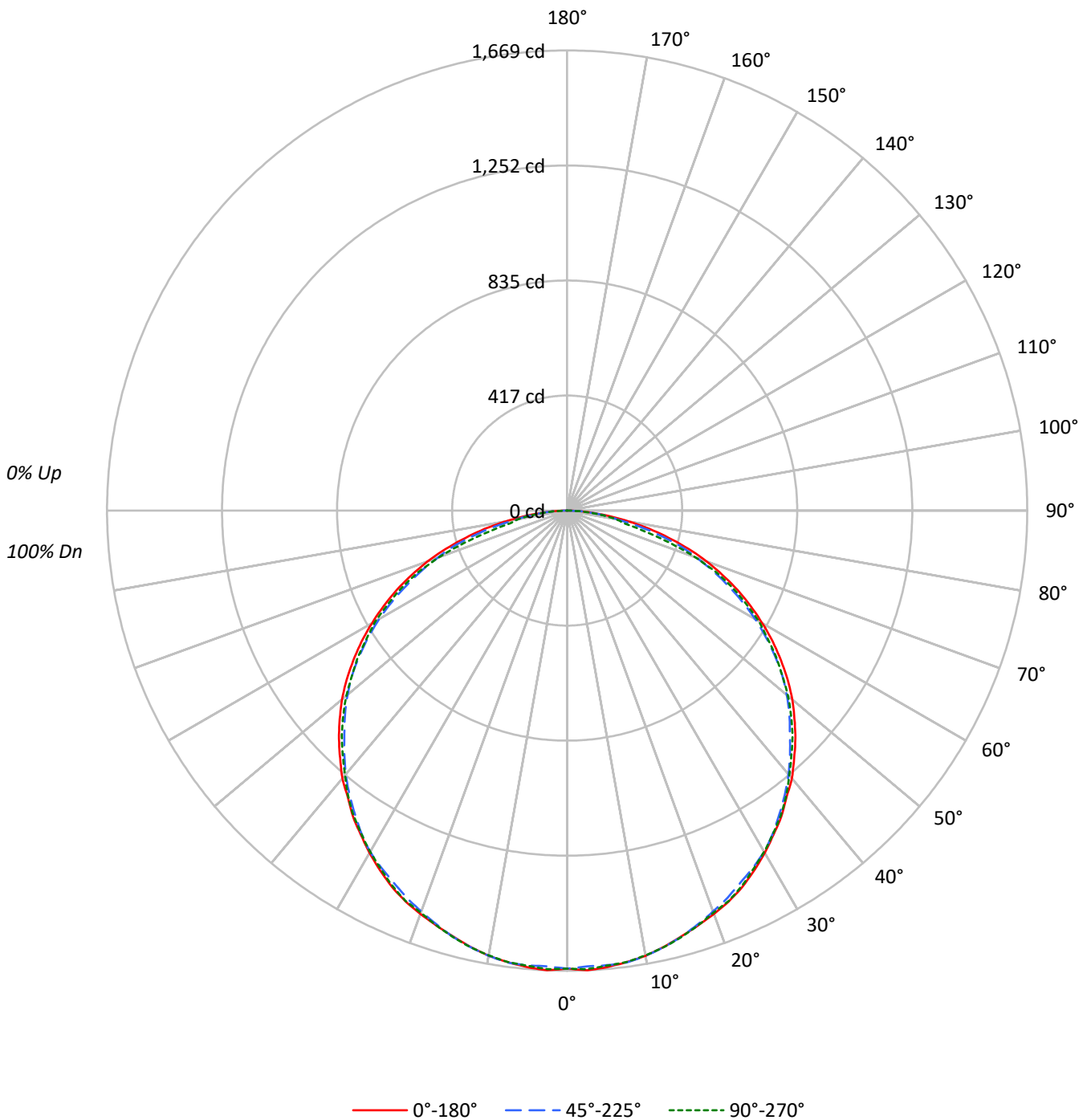
Input Watts (W): 41.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2235	2235	2235
5°	2245	2236	2238
10°	2240	2240	2238
15°	2227	2229	2231
20°	2229	2216	2222
25°	2235	2210	2229
30°	2227	2221	2221
35°	2225	2206	2218
40°	2228	2195	2202
45°	2228	2174	2200
50°	2232	2177	2189
55°	2221	2160	2172
60°	2200	2119	2160
65°	2172	2049	2106
70°	2114	1970	1939
75°	1980	1820	1513
80°	1750	1439	1406
85°	1348	1308	1189



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.4	3.2
10°-20°	451.7	9.1
20°-30°	689.8	13.9
30°-40°	841.9	16.9
40°-50°	890.3	17.9
50°-60°	828.0	16.7
60°-70°	649.4	13.1
70°-80°	364.3	7.3
80°-90°	96.8	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°	1298.9	26.1
0°-40°	2140.8	43.1
0°-60°	3859.2	77.7
0°-90°	4969.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4969.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1661	1661	1661	1661	1661	
5°	1662	1655	1655	1650	1657	158
15°	1599	1600	1600	1596	1601	452
25°	1506	1496	1488	1497	1501	693
35°	1355	1351	1343	1335	1351	847
45°	1171	1159	1143	1150	1156	903
55°	947	936	921	918	926	846
65°	682	664	644	650	662	673
75°	381	367	350	311	291	404
85°	87	84	85	79	77	105
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1661.2	1661.2	1661.2	1661.2	1661.2
2.5°	1668.9	1657.8	1654.4	1657.8	1664.7
5°	1662.1	1655.2	1655.2	1650.1	1657.0
7.5°	1651.8	1649.3	1653.5	1639.8	1651.0
10°	1639.8	1635.6	1639.8	1625.3	1638.1
12.5°	1621.0	1620.2	1621.9	1614.2	1621.9
15°	1598.8	1600.5	1600.5	1596.2	1601.3
17.5°	1578.2	1579.1	1573.9	1579.1	1577.4
20°	1556.8	1555.1	1547.4	1556.8	1551.7
22.5°	1533.7	1528.6	1520.0	1529.4	1532.0
25°	1505.5	1496.1	1488.4	1496.9	1501.2
27.5°	1470.4	1461.0	1460.1	1460.1	1464.4
30°	1433.6	1426.7	1429.3	1422.5	1429.3
32.5°	1393.4	1390.8	1389.1	1379.7	1389.9
35°	1354.8	1350.6	1342.9	1335.2	1350.6
37.5°	1307.8	1305.2	1297.5	1293.2	1305.2
40°	1268.4	1258.1	1249.6	1247.0	1253.8
42.5°	1218.8	1206.8	1196.5	1200.8	1204.2
45°	1170.8	1158.8	1142.6	1150.3	1156.3
47.5°	1118.6	1105.8	1092.9	1098.1	1101.5
50°	1066.4	1050.2	1039.9	1039.0	1045.9
52.5°	1008.2	994.5	984.2	980.8	983.4
55°	946.6	935.5	920.9	917.5	926.0
57.5°	884.1	872.1	855.0	852.4	861.0
60°	817.4	805.4	787.4	787.4	802.8
62.5°	750.6	736.9	716.4	720.6	731.8
65°	682.1	664.2	643.6	650.5	661.6
67.5°	610.2	593.1	572.6	578.6	585.4
70°	537.5	518.7	500.7	495.5	493.0
72.5°	461.3	441.6	432.2	407.4	392.0
75°	380.9	367.2	350.1	310.7	291.0
77.5°	306.4	294.4	268.7	221.7	210.5
80°	225.9	225.1	185.7	180.6	181.4
82.5°	153.2	149.8	139.5	130.1	130.9
85°	87.3	83.9	84.7	78.7	77.0
87.5°	31.7	34.2	33.4	34.2	33.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)