

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: P393479

Luminaire Tested: **24EN-LD2-40-UNV-L82765-W2A-1-U (5000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393479
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-33)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24EN-LD2-40-UNV-L82765-W2A-1-U (5000K)
Description: 2X4 ENCOUNTER, 4000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3889.7 lumens
Efficiency: N/A
Efficacy: 139.4 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

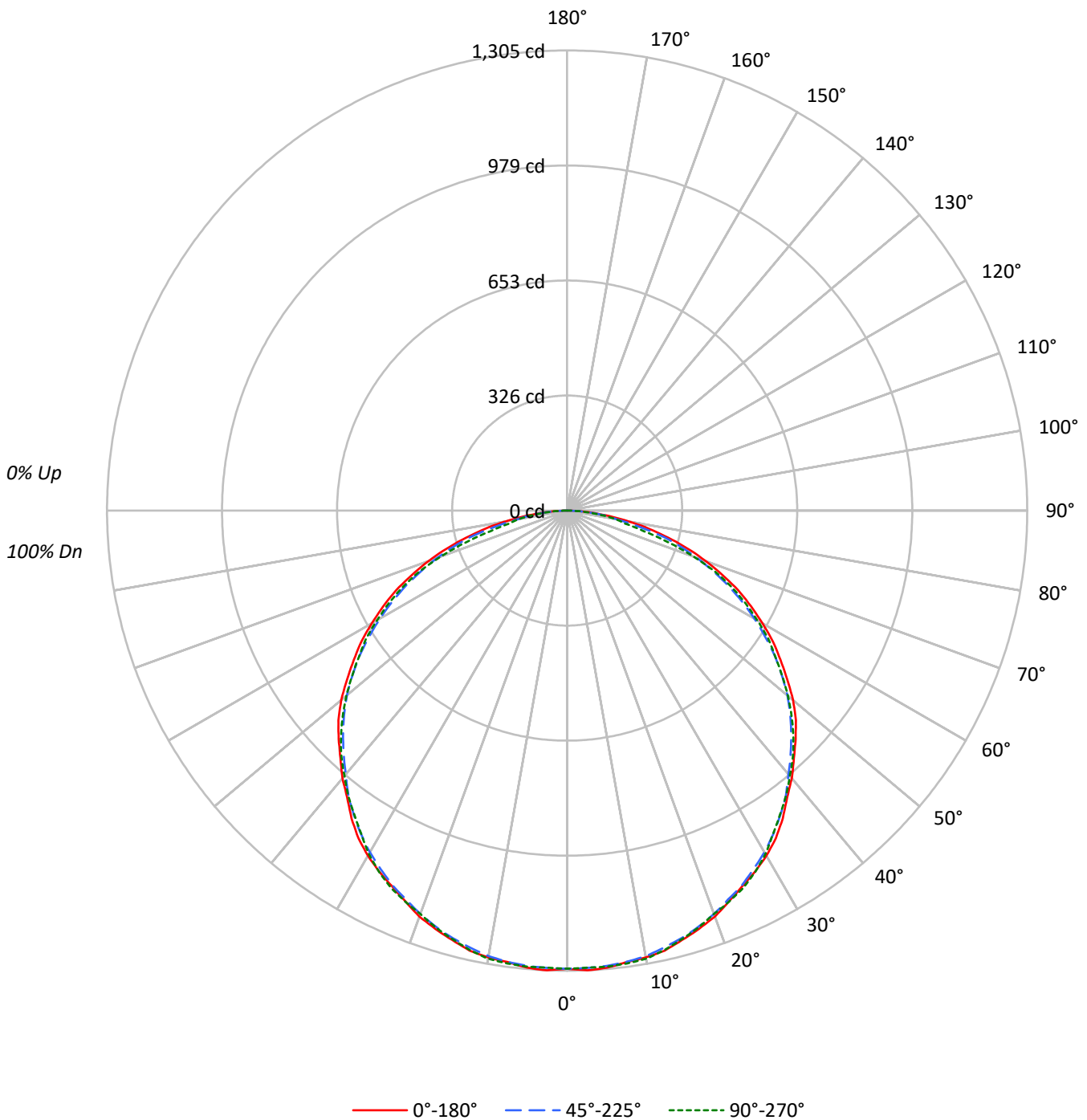
Input Watts (W): 27.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	80	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	42	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	36	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1748	1748	1748
5°	1757	1751	1754
10°	1758	1753	1763
15°	1756	1748	1752
20°	1754	1743	1743
25°	1745	1741	1753
30°	1756	1738	1747
35°	1751	1732	1729
40°	1741	1715	1725
45°	1743	1710	1727
50°	1751	1707	1711
55°	1732	1687	1689
60°	1721	1651	1677
65°	1706	1605	1642
70°	1643	1537	1496
75°	1538	1433	1168
80°	1369	1109	1094
85°	1082	1024	919



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.4	3.2
10°-20°	354.6	9.1
20°-30°	541.4	13.9
30°-40°	660.5	17.0
40°-50°	697.4	17.9
50°-60°	646.7	16.6
60°-70°	506.6	13.0
70°-80°	283.5	7.3
80°-90°	75.7	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°	1019.4	26.2
0°-40°	1679.9	43.2
0°-60°	3024.0	77.7
0°-90°	3889.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3889.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1299	1299	1299	1299	1299	
5°	1301	1301	1296	1297	1298	124
15°	1261	1255	1255	1252	1258	356
25°	1175	1175	1172	1171	1181	543
35°	1066	1056	1054	1053	1052	666
45°	916	908	899	897	908	707
55°	738	729	719	719	720	661
65°	536	520	504	507	516	527
75°	296	287	276	239	225	314
85°	70	67	66	62	60	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1299.2	1299.2	1299.2	1299.2	1299.2
2.5°	1305.0	1302.1	1298.3	1299.2	1297.3
5°	1301.2	1301.2	1296.4	1297.3	1298.3
7.5°	1291.6	1292.5	1290.6	1286.8	1295.4
10°	1286.8	1280.0	1282.9	1275.2	1290.6
12.5°	1278.1	1267.6	1269.5	1263.7	1276.2
15°	1260.8	1255.1	1255.1	1252.2	1258.0
17.5°	1243.6	1239.7	1237.8	1239.7	1239.7
20°	1225.3	1222.4	1217.6	1221.5	1217.6
22.5°	1199.4	1201.3	1193.6	1202.3	1200.3
25°	1175.4	1175.4	1172.5	1170.6	1181.1
27.5°	1154.2	1147.5	1145.6	1141.8	1155.2
30°	1130.2	1117.8	1118.7	1113.0	1124.5
32.5°	1101.4	1087.0	1088.0	1082.2	1087.0
35°	1065.9	1056.3	1054.4	1053.4	1052.5
37.5°	1024.6	1023.7	1018.8	1021.7	1019.8
40°	991.0	989.1	976.6	979.5	982.4
42.5°	951.6	948.7	938.2	940.1	947.8
45°	916.1	907.5	898.8	896.9	907.5
47.5°	879.6	866.2	858.5	852.7	863.3
50°	836.4	824.9	815.3	809.5	817.2
52.5°	786.5	776.9	767.3	765.3	768.2
55°	738.4	728.8	719.2	719.2	720.2
57.5°	692.4	679.9	665.5	668.3	676.0
60°	639.5	628.0	613.6	613.6	623.2
62.5°	587.7	573.3	558.9	560.8	570.4
65°	535.8	519.5	504.1	507.0	515.7
67.5°	476.3	461.9	447.5	451.3	456.1
70°	417.7	403.3	390.8	387.0	380.3
72.5°	358.2	346.7	336.1	315.0	304.4
75°	295.8	287.1	275.6	239.1	224.7
77.5°	238.1	231.4	205.5	171.9	167.1
80°	176.7	176.7	143.1	140.2	141.2
82.5°	120.0	118.1	108.5	101.8	98.9
85°	70.1	67.2	66.3	62.4	59.5
87.5°	23.0	26.9	26.9	25.9	26.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)