

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: P393527

Luminaire Tested: **24EN-LD2-45-UNV-L92765-W2A-1-U (5000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393527
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-34)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24EN-LD2-45-UNV-L92765-W2A-1-U (5000K)
Description: 2X4 ENCOUNTER, 4500 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3861.8 lumens
Efficiency: N/A
Efficacy: 121.4 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

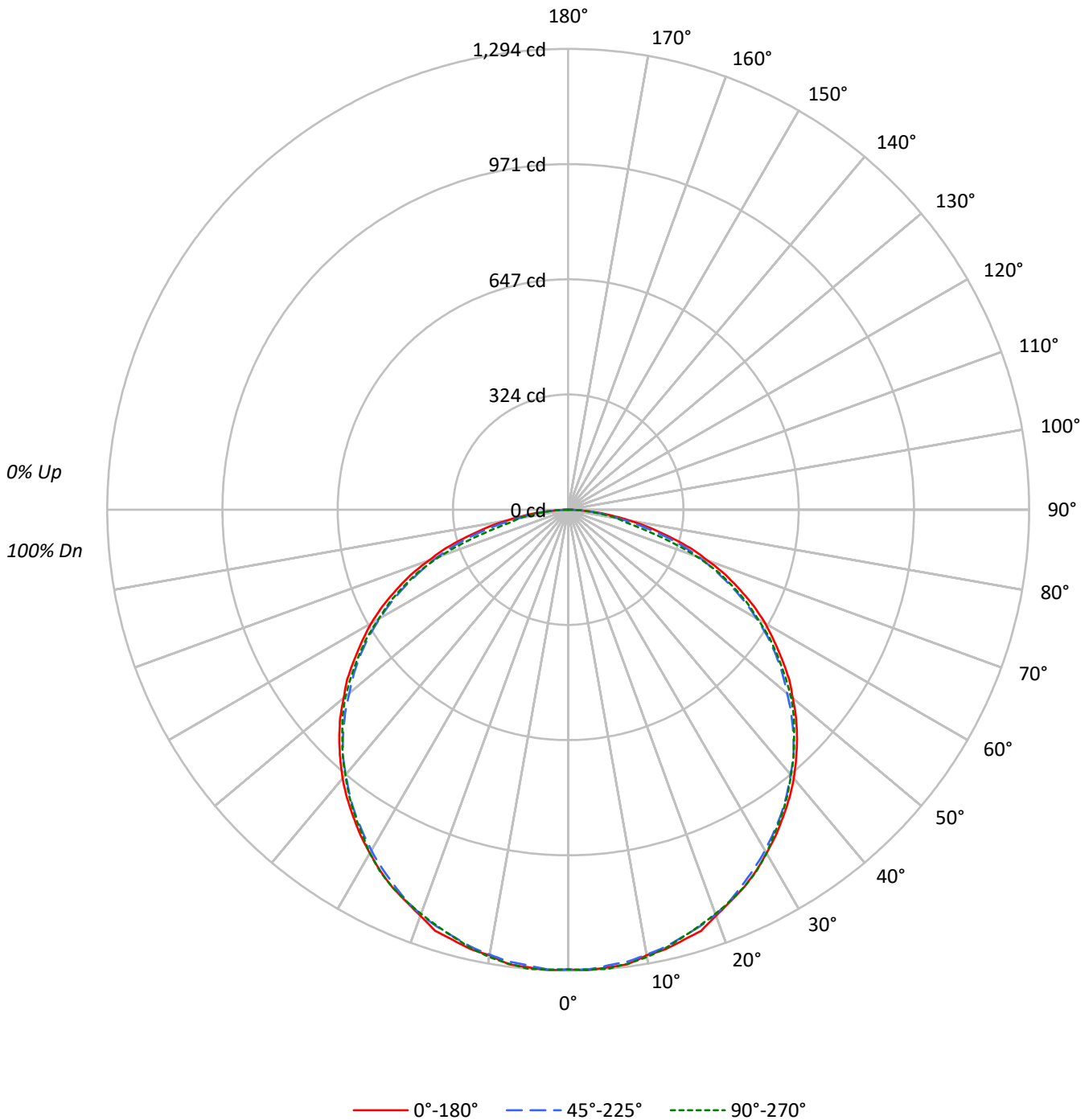
Input Watts (W): 31.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	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°	1737	1737	1737
5°	1742	1735	1747
10°	1735	1733	1742
15°	1742	1729	1731
20°	1737	1732	1730
25°	1736	1723	1734
30°	1730	1717	1730
35°	1728	1713	1717
40°	1731	1705	1708
45°	1729	1700	1706
50°	1722	1680	1708
55°	1718	1671	1685
60°	1719	1642	1656
65°	1693	1599	1626
70°	1635	1542	1506
75°	1529	1416	1179
80°	1352	1137	1091
85°	1105	1002	911



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.4	3.2
10°-20°	351.4	9.1
20°-30°	536.2	13.9
30°-40°	654.1	16.9
40°-50°	692.3	17.9
50°-60°	642.1	16.6
60°-70°	504.8	13.1
70°-80°	282.9	7.3
80°-90°	75.5	2.0
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°	1010.0	26.2
0°-40°	1664.1	43.1
0°-60°	2998.6	77.6
0°-90°	3861.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3861.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1291	1291	1291	1291	1291	
5°	1290	1287	1285	1284	1294	123
15°	1251	1246	1242	1244	1242	353
25°	1169	1163	1161	1162	1168	539
35°	1052	1049	1043	1043	1045	659
45°	909	903	894	891	897	701
55°	732	724	712	713	718	656
65°	532	518	502	506	511	526
75°	294	287	272	238	227	313
85°	72	66	65	62	59	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1291.3	1291.3	1291.3	1291.3	1291.3
2.5°	1293.8	1289.6	1292.2	1287.1	1292.2
5°	1289.6	1287.1	1284.6	1283.7	1293.8
7.5°	1287.1	1282.0	1279.5	1277.0	1285.4
10°	1270.2	1271.9	1268.6	1269.4	1275.3
12.5°	1264.3	1259.3	1257.6	1257.6	1261.0
15°	1250.9	1245.8	1241.6	1244.1	1242.4
17.5°	1239.9	1226.4	1227.3	1227.3	1224.7
20°	1212.9	1207.0	1209.6	1205.3	1207.9
22.5°	1190.2	1186.8	1187.6	1183.4	1189.3
25°	1169.1	1163.2	1160.7	1161.5	1168.3
27.5°	1143.0	1137.1	1133.7	1132.9	1144.7
30°	1113.5	1109.3	1105.0	1105.0	1113.5
32.5°	1084.8	1078.9	1073.9	1073.0	1078.1
35°	1051.9	1048.6	1042.7	1042.7	1045.2
37.5°	1019.9	1013.2	1008.1	1009.0	1010.6
40°	985.3	978.6	971.0	971.0	972.7
42.5°	947.4	941.5	936.5	933.1	936.5
45°	908.6	902.7	893.5	890.9	896.8
47.5°	868.2	860.6	849.6	851.3	858.9
50°	822.7	815.1	802.4	806.7	815.9
52.5°	781.4	772.1	758.6	762.8	767.0
55°	732.5	724.1	712.2	713.1	718.1
57.5°	685.3	676.0	663.4	662.5	670.1
60°	638.9	626.3	610.3	611.1	615.3
62.5°	587.5	574.0	558.0	558.0	565.6
65°	531.9	517.5	502.4	505.7	510.8
67.5°	477.9	459.4	445.9	447.6	453.5
70°	415.5	402.9	391.9	386.0	382.7
72.5°	360.8	343.1	334.6	313.6	306.8
75°	294.2	287.4	272.3	238.5	226.7
77.5°	235.2	228.4	208.2	172.0	165.2
80°	174.5	176.2	146.7	140.8	140.8
82.5°	122.2	117.2	107.0	102.0	99.5
85°	71.6	65.7	64.9	61.5	59.0
87.5°	23.6	27.0	26.1	27.0	27.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)