

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: P393385

Luminaire Tested: **22EN-LD2-43-UNV-L82765-W2A-1-U (6500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393385
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22EN-LD2-43-UNV-L82765-W2A-1-U (6500K)
Description: 2X2 ENCOUNTER, 4300 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4145.8 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

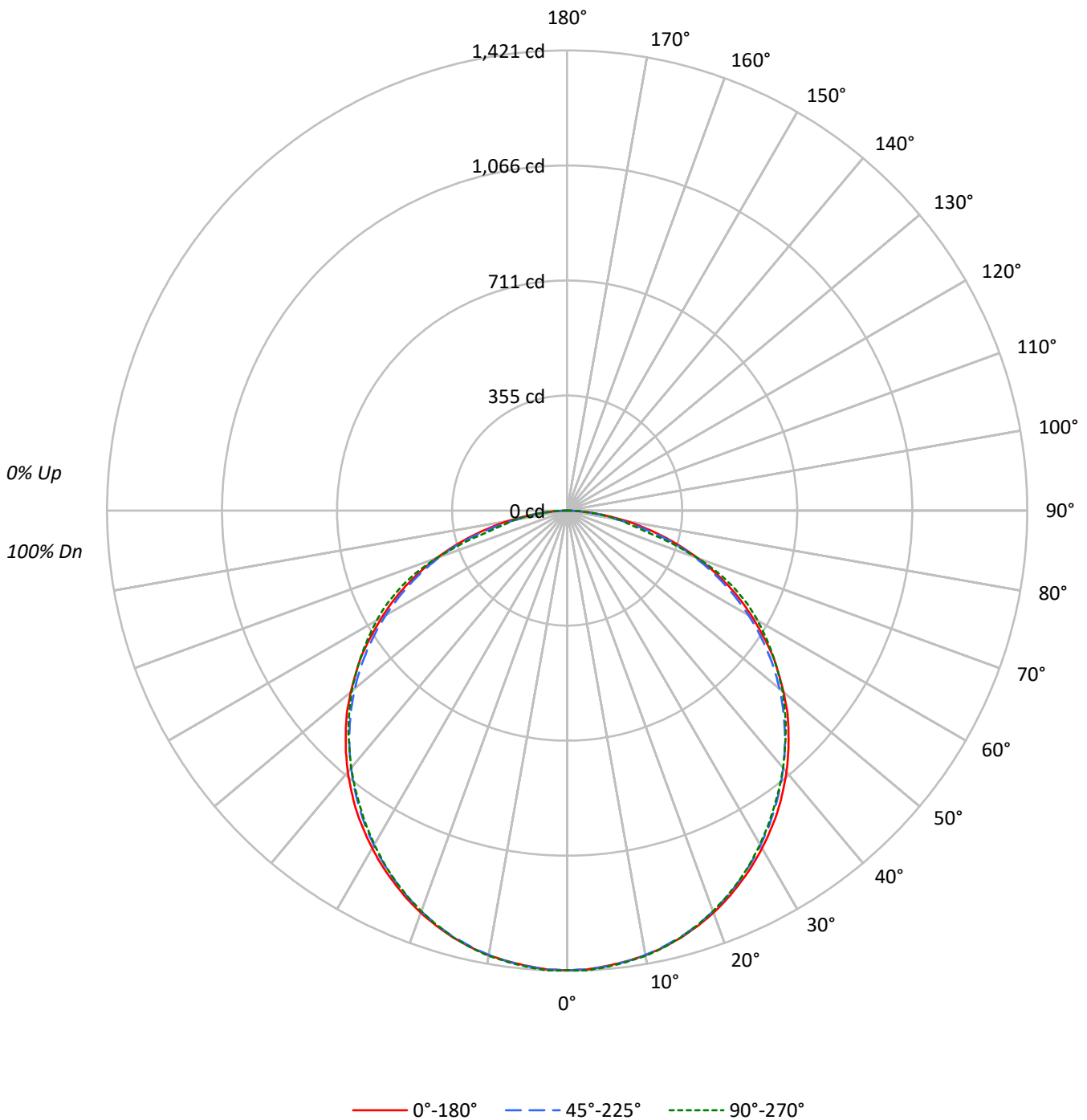
Input Watts (W): 32.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	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	45	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3819	3819	3819
5°	3813	3816	3821
10°	3810	3807	3815
15°	3801	3793	3798
20°	3785	3771	3771
25°	3761	3741	3738
30°	3741	3709	3700
35°	3724	3677	3664
40°	3701	3647	3644
45°	3679	3616	3635
50°	3651	3583	3635
55°	3626	3540	3635
60°	3557	3484	3655
65°	3496	3403	3643
70°	3371	3294	3378
75°	3179	3009	2618
80°	2856	2393	2571
85°	2115	2174	2084



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.2	3.2
10°-20°	384.3	9.3
20°-30°	581.3	14.0
30°-40°	701.9	16.9
40°-50°	736.9	17.8
50°-60°	682.3	16.5
60°-70°	539.9	13.0
70°-80°	303.6	7.3
80°-90°	81.2	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°	1099.9	26.5
0°-40°	1801.8	43.5
0°-60°	3221.0	77.7
0°-90°	4145.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4145.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1419	1419	1419	1419	1419	
5°	1412	1411	1412	1412	1414	134
15°	1364	1362	1361	1361	1363	385
25°	1267	1265	1260	1258	1259	584
35°	1134	1129	1119	1113	1115	709
45°	967	962	950	948	955	746
55°	773	765	754	761	775	688
65°	549	542	534	555	572	542
75°	306	301	289	264	252	323
85°	68	67	70	67	68	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1419.3	1419.3	1419.3	1419.3	1419.3
2.5°	1418.3	1417.3	1418.3	1418.3	1421.2
5°	1411.5	1410.6	1412.5	1412.5	1414.4
7.5°	1403.8	1402.9	1404.8	1404.8	1405.7
10°	1394.2	1392.2	1393.2	1394.2	1396.1
12.5°	1380.7	1378.7	1378.7	1379.7	1381.6
15°	1364.3	1362.3	1361.4	1361.4	1363.3
17.5°	1344.0	1341.1	1341.1	1339.2	1341.1
20°	1321.8	1318.9	1317.0	1315.1	1317.0
22.5°	1295.8	1292.9	1290.0	1288.0	1289.0
25°	1266.8	1264.9	1260.1	1258.1	1259.1
27.5°	1236.9	1234.0	1228.2	1224.4	1226.3
30°	1204.1	1200.2	1193.5	1188.7	1190.6
32.5°	1169.4	1165.5	1157.8	1152.0	1153.9
35°	1133.7	1128.8	1119.2	1113.4	1115.3
37.5°	1094.1	1090.2	1079.6	1073.8	1076.7
40°	1053.6	1049.7	1038.1	1033.3	1037.2
42.5°	1011.1	1007.3	994.7	989.9	995.7
45°	966.8	961.9	950.3	947.5	955.2
47.5°	922.4	915.6	904.0	902.1	911.8
50°	872.2	867.4	855.8	856.8	868.3
52.5°	822.0	818.2	806.6	810.4	821.1
55°	772.8	765.1	754.5	761.2	774.8
57.5°	715.9	711.1	701.4	712.0	726.5
60°	660.9	657.0	647.4	660.9	679.2
62.5°	606.9	599.2	590.5	609.8	629.1
65°	549.0	542.2	534.5	554.8	572.1
67.5°	489.2	482.4	476.6	495.0	507.5
70°	428.4	422.6	418.7	424.5	429.3
72.5°	367.6	361.8	358.9	345.4	341.5
75°	305.8	301.0	289.4	264.4	251.8
77.5°	244.1	238.3	219.0	194.9	195.9
80°	184.3	177.5	154.4	161.1	165.9
82.5°	125.4	120.6	115.8	113.8	114.8
85°	68.5	66.6	70.4	66.6	67.5
87.5°	28.0	28.9	30.9	29.9	29.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)