

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: P393389

Luminaire Tested: **22EN-LD2-43-UNV-L83050-W2A-1-U (4000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393389
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-L83050-W2A-1-U (4000K)
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: 4315.2 lumens
Efficiency: N/A
Efficacy: 130.8 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

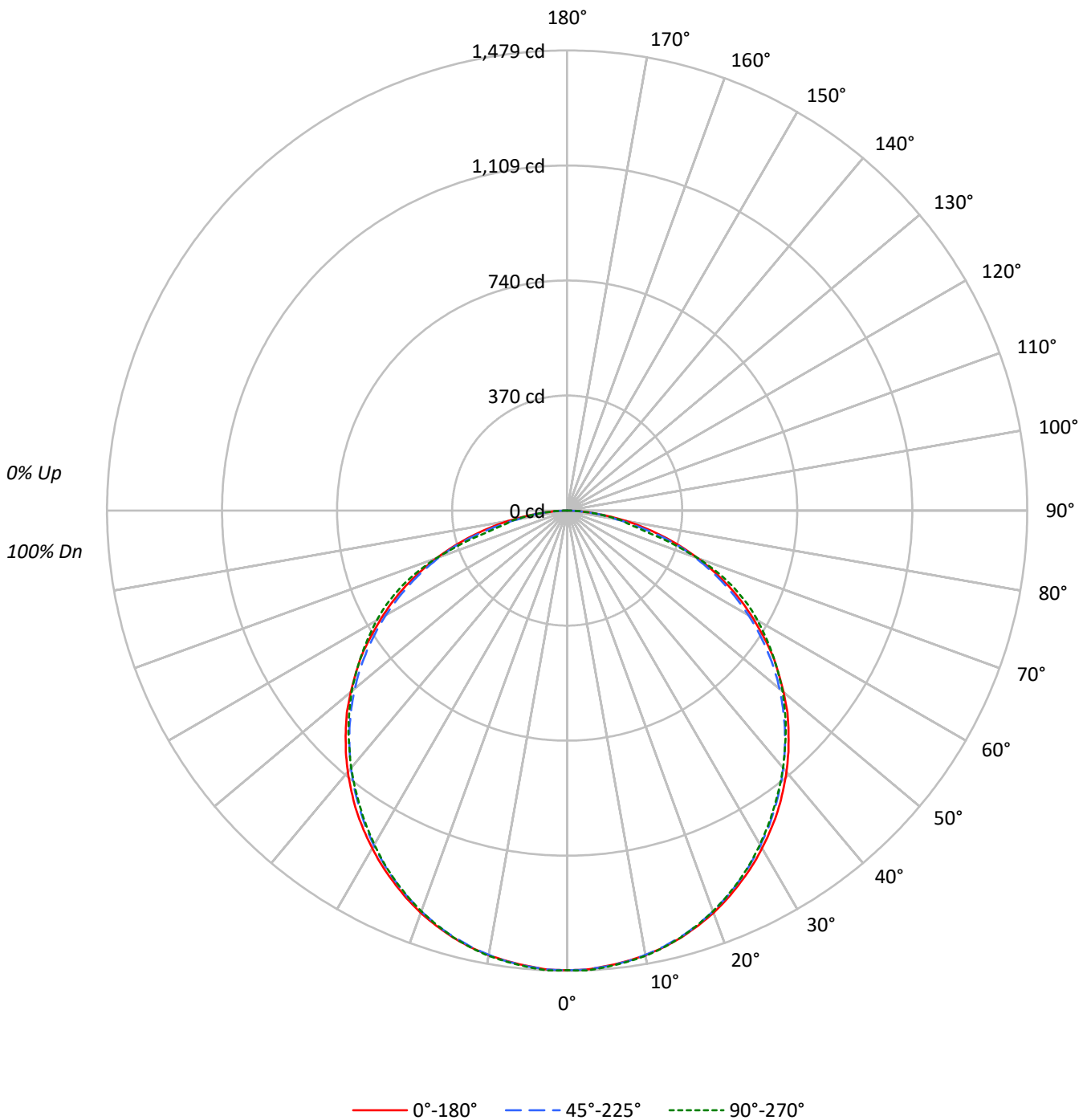
Input Watts (W): 33
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3975	3975	3975
5°	3969	3971	3977
10°	3965	3962	3971
15°	3956	3948	3953
20°	3940	3926	3926
25°	3915	3894	3891
30°	3894	3860	3851
35°	3876	3827	3814
40°	3852	3796	3792
45°	3830	3765	3784
50°	3800	3729	3784
55°	3774	3684	3783
60°	3702	3627	3805
65°	3638	3543	3792
70°	3508	3429	3516
75°	3309	3133	2725
80°	2972	2490	2676
85°	2201	2263	2171



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.7	3.2
10°-20°	400.0	9.3
20°-30°	605.1	14.0
30°-40°	730.6	16.9
40°-50°	767.0	17.8
50°-60°	710.2	16.5
60°-70°	562.0	13.0
70°-80°	316.1	7.3
80°-90°	84.6	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°	1144.8	26.5
0°-40°	1875.4	43.5
0°-60°	3352.6	77.7
0°-90°	4315.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4315.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1477	1477	1477	1477	1477	
5°	1469	1468	1470	1470	1472	140
15°	1420	1418	1417	1417	1419	401
25°	1319	1317	1312	1310	1310	608
35°	1180	1175	1165	1159	1161	738
45°	1006	1001	989	986	994	777
55°	804	796	785	792	806	717
65°	571	564	556	577	596	564
75°	318	313	301	275	262	336
85°	71	69	73	69	70	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1477.3	1477.3	1477.3	1477.3	1477.3
2.5°	1476.3	1475.2	1476.3	1476.3	1479.3
5°	1469.2	1468.2	1470.2	1470.2	1472.2
7.5°	1461.2	1460.2	1462.2	1462.2	1463.2
10°	1451.1	1449.1	1450.1	1451.1	1453.2
12.5°	1437.1	1435.1	1435.1	1436.1	1438.1
15°	1420.0	1418.0	1417.0	1417.0	1419.0
17.5°	1398.9	1395.9	1395.9	1393.9	1395.9
20°	1375.8	1372.8	1370.8	1368.8	1370.8
22.5°	1348.7	1345.7	1342.7	1340.7	1341.7
25°	1318.6	1316.6	1311.6	1309.5	1310.5
27.5°	1287.5	1284.4	1278.4	1274.4	1276.4
30°	1253.3	1249.3	1242.3	1237.2	1239.2
32.5°	1217.2	1213.1	1205.1	1199.1	1201.1
35°	1180.0	1175.0	1164.9	1158.9	1160.9
37.5°	1138.8	1134.8	1123.8	1117.7	1120.7
40°	1096.6	1092.6	1080.6	1075.6	1079.6
42.5°	1052.5	1048.4	1035.4	1030.4	1036.4
45°	1006.3	1001.2	989.2	986.2	994.2
47.5°	960.1	953.0	941.0	939.0	949.0
50°	907.8	902.8	890.8	891.8	903.8
52.5°	855.6	851.6	839.6	843.6	854.6
55°	804.4	796.4	785.3	792.4	806.4
57.5°	745.2	740.1	730.1	741.1	756.2
60°	687.9	683.9	673.9	687.9	707.0
62.5°	631.7	623.6	614.6	634.7	654.8
65°	571.4	564.4	556.4	577.4	595.5
67.5°	509.2	502.1	496.1	515.2	528.2
70°	445.9	439.9	435.8	441.9	446.9
72.5°	382.6	376.6	373.6	359.5	355.5
75°	318.3	313.3	301.3	275.2	262.1
77.5°	254.1	248.1	228.0	202.9	203.9
80°	191.8	184.8	160.7	167.7	172.7
82.5°	130.6	125.5	120.5	118.5	119.5
85°	71.3	69.3	73.3	69.3	70.3
87.5°	29.1	30.1	32.1	31.1	31.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)