

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: P393391

Luminaire Tested: **22EN-LD2-43-UNV-L83050-W2A-1-U (5000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393391
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 (5000K)
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: 4378.1 lumens
Efficiency: N/A
Efficacy: 134.3 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

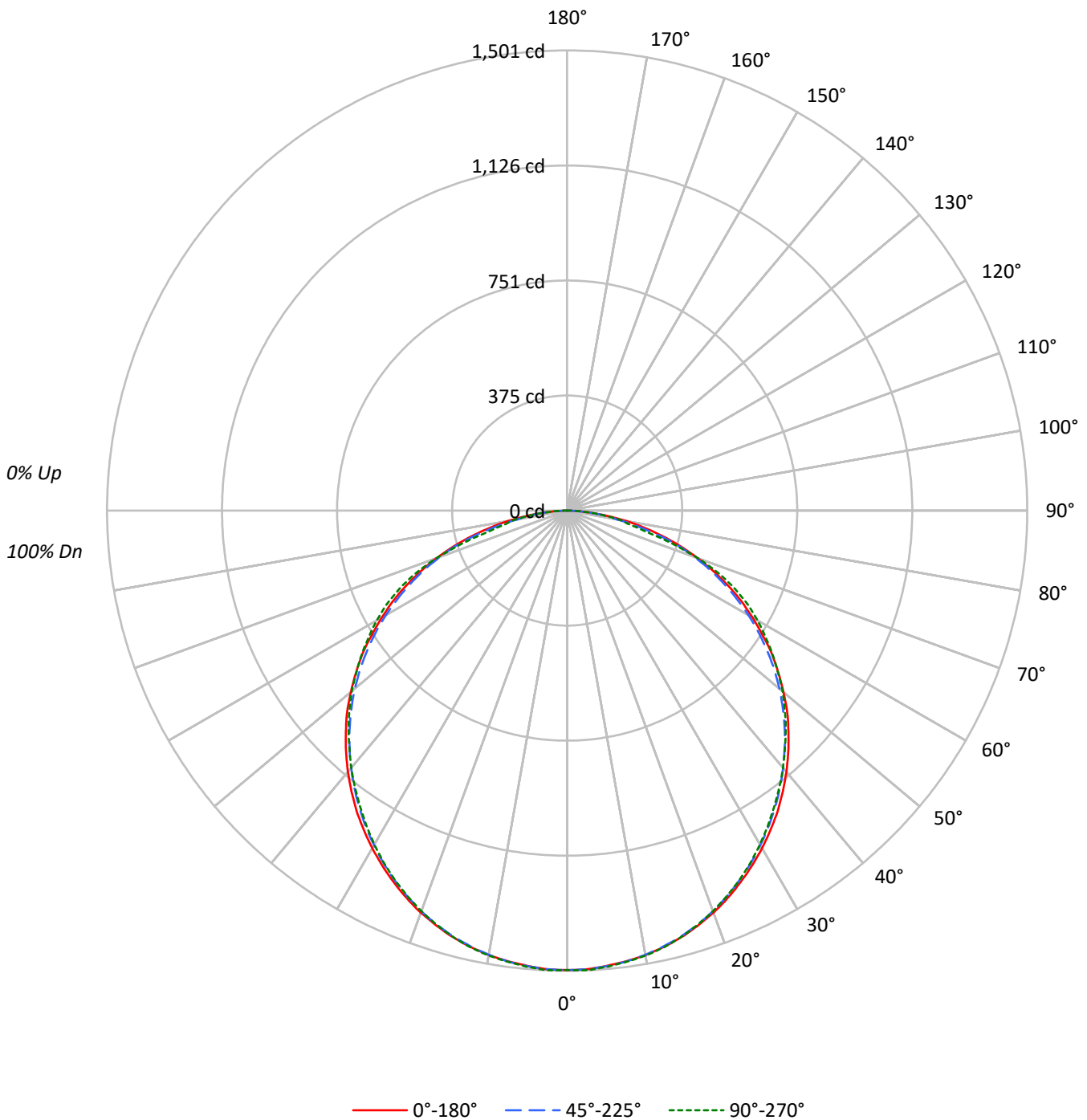
Input Watts (W): 32.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4033	4033	4033
5°	4026	4029	4035
10°	4023	4020	4029
15°	4014	4005	4011
20°	3997	3983	3983
25°	3972	3951	3948
30°	3951	3916	3907
35°	3933	3883	3869
40°	3908	3851	3848
45°	3885	3819	3839
50°	3856	3783	3839
55°	3829	3738	3838
60°	3756	3680	3860
65°	3691	3594	3847
70°	3559	3479	3567
75°	3358	3178	2765
80°	3016	2526	2715
85°	2232	2297	2201



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.7	3.2
10°-20°	405.8	9.3
20°-30°	613.9	14.0
30°-40°	741.2	16.9
40°-50°	778.2	17.8
50°-60°	720.6	16.5
60°-70°	570.2	13.0
70°-80°	320.7	7.3
80°-90°	85.8	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°	1161.5	26.5
0°-40°	1902.7	43.5
0°-60°	3401.4	77.7
0°-90°	4378.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4378.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1499	1499	1499	1499	1499	
5°	1491	1490	1492	1492	1494	142
15°	1441	1439	1438	1438	1440	407
25°	1338	1336	1331	1329	1330	617
35°	1197	1192	1182	1176	1178	749
45°	1021	1016	1004	1000	1009	788
55°	816	808	797	804	818	727
65°	580	573	564	586	604	572
75°	323	318	306	279	266	341
85°	72	70	74	70	71	90
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1498.8	1498.8	1498.8	1498.8	1498.8
2.5°	1497.7	1496.7	1497.7	1497.7	1500.8
5°	1490.6	1489.6	1491.6	1491.6	1493.7
7.5°	1482.4	1481.4	1483.5	1483.5	1484.5
10°	1472.3	1470.2	1471.2	1472.3	1474.3
12.5°	1458.0	1456.0	1456.0	1457.0	1459.0
15°	1440.7	1438.6	1437.6	1437.6	1439.7
17.5°	1419.3	1416.2	1416.2	1414.2	1416.2
20°	1395.8	1392.8	1390.8	1388.7	1390.8
22.5°	1368.3	1365.3	1362.2	1360.2	1361.2
25°	1337.8	1335.7	1330.6	1328.6	1329.6
27.5°	1306.2	1303.1	1297.0	1292.9	1295.0
30°	1271.5	1267.5	1260.3	1255.2	1257.3
32.5°	1234.9	1230.8	1222.6	1216.5	1218.6
35°	1197.2	1192.1	1181.9	1175.8	1177.8
37.5°	1155.4	1151.3	1140.1	1134.0	1137.1
40°	1112.6	1108.5	1096.3	1091.2	1095.3
42.5°	1067.8	1063.7	1050.4	1045.4	1051.5
45°	1020.9	1015.8	1003.6	1000.5	1008.7
47.5°	974.0	966.9	954.7	952.6	962.8
50°	921.1	916.0	903.7	904.8	917.0
52.5°	868.1	864.0	851.8	855.8	867.1
55°	816.1	808.0	796.8	803.9	818.1
57.5°	756.0	750.9	740.7	751.9	767.2
60°	697.9	693.8	683.7	697.9	717.3
62.5°	640.9	632.7	623.5	643.9	664.3
65°	579.7	572.6	564.5	585.8	604.2
67.5°	516.6	509.4	503.3	522.7	535.9
70°	452.4	446.3	442.2	448.3	453.4
72.5°	388.2	382.1	379.0	364.8	360.7
75°	323.0	317.9	305.7	279.2	265.9
77.5°	257.8	251.7	231.3	205.8	206.8
80°	194.6	187.5	163.0	170.2	175.2
82.5°	132.5	127.4	122.3	120.2	121.2
85°	72.3	70.3	74.4	70.3	71.3
87.5°	29.5	30.6	32.6	31.6	31.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)