

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: P393175

Luminaire Tested: **14EN-LD2-47-UNV-L92765-W2A-1-U (5000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393175
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-55)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14EN-LD2-47-UNV-L92765-W2A-1-U (5000K)
Description: 1X4 ENCOUNTER, 4700 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3976.7 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

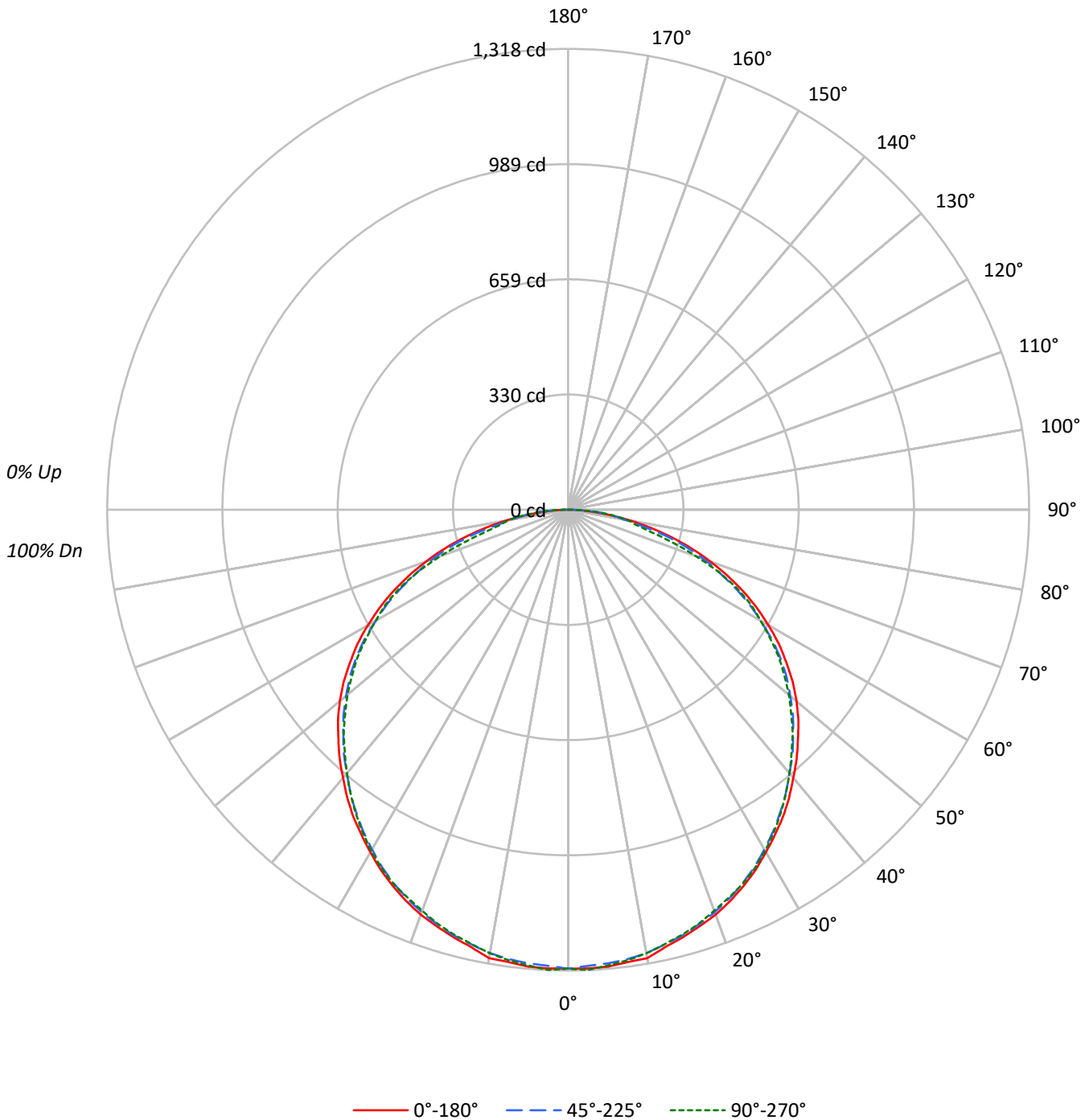
Input Watts (W): 46.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	64	59	57
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	54	49	44	42
6	69	55	46	40	67	54	46	39	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3532	3532	3532
5°	3543	3518	3534
10°	3559	3519	3519
15°	3527	3513	3506
20°	3529	3507	3495
25°	3524	3501	3506
30°	3515	3486	3499
35°	3519	3472	3481
40°	3518	3456	3458
45°	3535	3461	3455
50°	3568	3469	3448
55°	3571	3476	3448
60°	3561	3420	3420
65°	3515	3338	3387
70°	3396	3243	3064
75°	3199	2997	2515
80°	2834	2483	2690
85°	2081	2680	2680



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.2	3.1
10°-20°	356.5	9.0
20°-30°	544.8	13.7
30°-40°	664.1	16.7
40°-50°	705.7	17.7
50°-60°	664.0	16.7
60°-70°	527.0	13.3
70°-80°	299.7	7.5
80°-90°	90.5	2.3
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°	1025.5	25.8
0°-40°	1689.7	42.5
0°-60°	3059.4	76.9
0°-90°	3976.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3976.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1312	1312	1312	1312	1312	
5°	1312	1310	1302	1304	1308	125
15°	1266	1265	1261	1259	1258	358
25°	1187	1184	1179	1182	1181	547
35°	1071	1070	1057	1054	1060	670
45°	929	922	910	907	908	718
55°	761	754	741	736	735	680
65°	552	544	524	531	532	544
75°	308	301	288	255	242	324
85°	67	73	87	85	87	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1312.4	1312.4	1312.4	1312.4	1312.4
2.5°	1313.2	1314.1	1305.7	1310.7	1317.5
5°	1311.6	1309.9	1302.3	1304.0	1308.2
7.5°	1304.8	1303.1	1296.4	1296.4	1299.8
10°	1302.3	1293.9	1288.0	1286.3	1288.0
12.5°	1281.2	1281.2	1273.6	1274.5	1272.8
15°	1266.0	1265.2	1261.0	1259.3	1258.5
17.5°	1249.2	1247.5	1243.3	1246.6	1241.6
20°	1232.3	1229.8	1224.7	1227.3	1220.5
22.5°	1211.2	1207.0	1203.7	1207.9	1200.3
25°	1186.8	1184.3	1179.2	1181.7	1180.9
27.5°	1160.7	1159.0	1152.2	1152.2	1155.6
30°	1131.2	1130.3	1121.9	1122.7	1126.1
32.5°	1100.8	1099.1	1090.7	1088.2	1094.1
35°	1071.3	1069.6	1057.0	1054.5	1059.5
37.5°	1037.6	1035.1	1022.4	1018.2	1022.4
40°	1001.4	999.7	983.7	980.3	984.5
42.5°	966.8	960.9	949.1	944.0	944.9
45°	928.9	922.1	909.5	907.0	907.8
47.5°	892.6	883.4	871.6	869.0	864.8
50°	852.2	841.2	828.6	825.2	823.5
52.5°	809.2	797.4	787.3	780.5	778.8
55°	761.1	753.6	740.9	735.9	735.0
57.5°	713.9	704.7	690.3	685.3	684.4
60°	661.7	655.8	635.5	634.7	635.5
62.5°	607.7	599.3	582.4	584.1	589.2
65°	552.1	543.7	524.3	531.0	531.9
67.5°	492.3	485.5	466.1	470.3	465.3
70°	431.6	426.5	412.2	402.1	389.4
72.5°	370.9	363.3	354.0	324.5	313.6
75°	307.7	300.9	288.3	254.6	241.9
77.5°	242.8	241.1	217.5	194.7	197.2
80°	182.9	184.6	160.2	168.6	173.6
82.5°	121.4	122.2	129.0	136.5	133.2
85°	67.4	73.3	86.8	85.1	86.8
87.5°	24.4	37.1	37.9	40.5	39.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)