

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: P393176

Luminaire Tested: **14EN-LD2-47-UNV-L92765-W2A-1-U (5700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393176
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 (5700K)
Description: 1X4 ENCOUNTER, 4700 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4037.9 lumens
Efficiency: N/A
Efficacy: 86.5 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

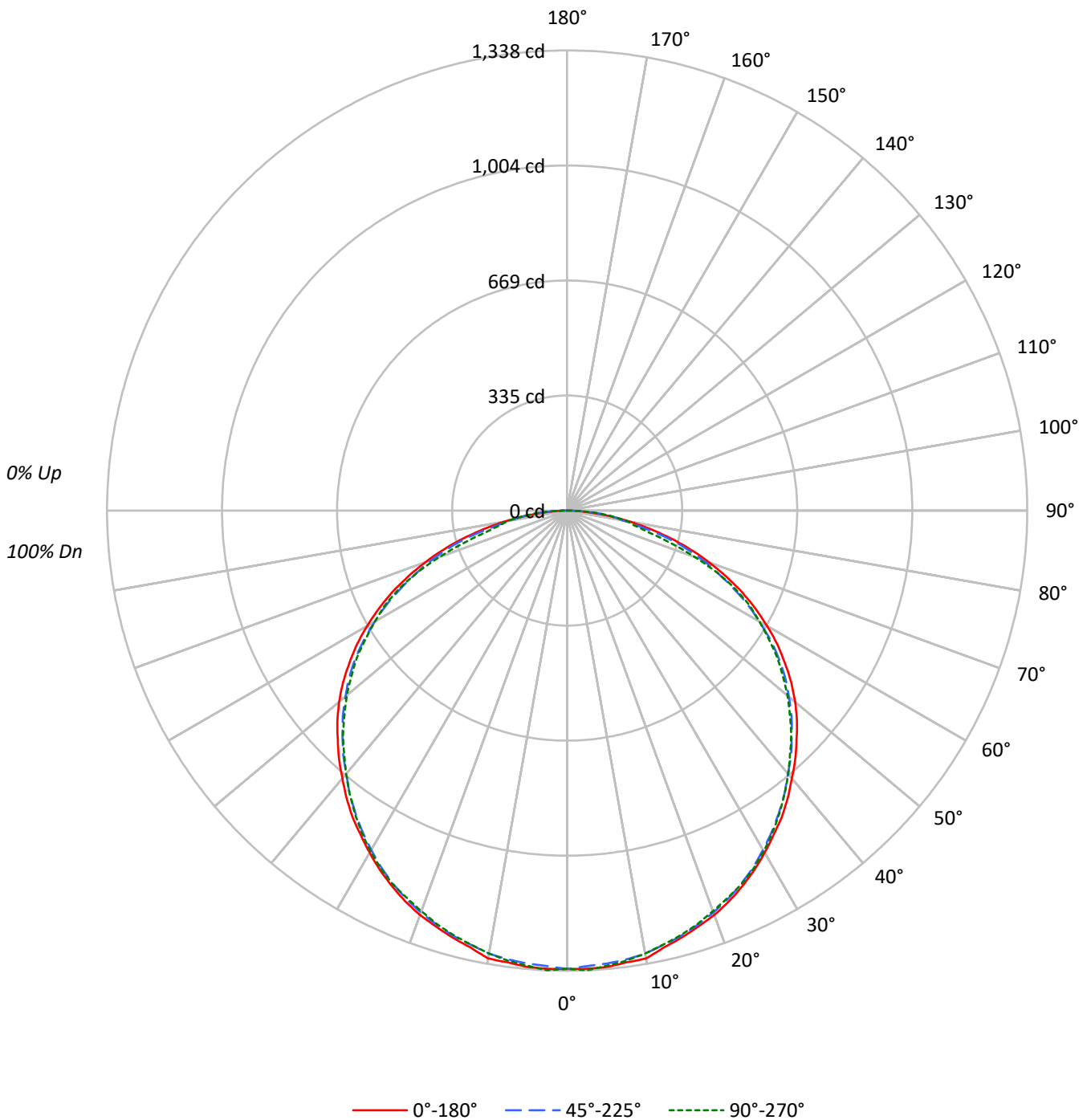
Input Watts (W): 46.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3586	3586	3586
5°	3597	3572	3588
10°	3613	3574	3574
15°	3581	3567	3560
20°	3583	3561	3549
25°	3578	3555	3560
30°	3569	3540	3553
35°	3574	3526	3534
40°	3572	3509	3512
45°	3589	3514	3508
50°	3623	3522	3501
55°	3626	3529	3501
60°	3616	3473	3473
65°	3570	3390	3439
70°	3448	3293	3111
75°	3248	3043	2554
80°	2878	2520	2732
85°	2115	2723	2723



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.1	3.1
10°-20°	362.0	9.0
20°-30°	553.2	13.7
30°-40°	674.4	16.7
40°-50°	716.6	17.7
50°-60°	674.2	16.7
60°-70°	535.2	13.3
70°-80°	304.3	7.5
80°-90°	91.9	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°	1041.3	25.8
0°-40°	1715.7	42.5
0°-60°	3106.5	76.9
0°-90°	4037.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4037.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1333	1333	1333	1333	1333	
5°	1332	1330	1322	1324	1328	127
15°	1286	1285	1280	1279	1278	363
25°	1205	1202	1197	1200	1199	556
35°	1088	1086	1073	1071	1076	680
45°	943	936	924	921	922	729
55°	773	765	752	747	746	691
65°	561	552	532	539	540	553
75°	312	306	293	258	246	329
85°	68	74	88	86	88	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1332.6	1332.6	1332.6	1332.6	1332.6
2.5°	1333.4	1334.3	1325.7	1330.9	1337.7
5°	1331.7	1330.0	1322.3	1324.0	1328.3
7.5°	1324.9	1323.2	1316.3	1316.3	1319.8
10°	1322.3	1313.8	1307.8	1306.1	1307.8
12.5°	1300.9	1300.9	1293.2	1294.1	1292.4
15°	1285.5	1284.7	1280.4	1278.7	1277.8
17.5°	1268.4	1266.7	1262.4	1265.8	1260.7
20°	1251.3	1248.7	1243.6	1246.1	1239.3
22.5°	1229.9	1225.6	1222.2	1226.5	1218.8
25°	1205.1	1202.5	1197.4	1199.9	1199.1
27.5°	1178.5	1176.8	1170.0	1170.0	1173.4
30°	1148.6	1147.7	1139.2	1140.0	1143.4
32.5°	1117.8	1116.1	1107.5	1104.9	1110.9
35°	1087.8	1086.1	1073.3	1070.7	1075.8
37.5°	1053.6	1051.0	1038.2	1033.9	1038.2
40°	1016.8	1015.1	998.8	995.4	999.7
42.5°	981.7	975.7	963.7	958.6	959.4
45°	943.2	936.3	923.5	920.9	921.8
47.5°	906.4	897.0	885.0	882.4	878.1
50°	865.3	854.2	841.3	837.9	836.2
52.5°	821.6	809.7	799.4	792.5	790.8
55°	772.8	765.1	752.3	747.2	746.3
57.5°	724.9	715.5	701.0	695.8	695.0
60°	671.9	665.9	645.3	644.5	645.3
62.5°	617.1	608.5	591.4	593.1	598.3
65°	560.6	552.0	532.4	539.2	540.1
67.5°	499.8	493.0	473.3	477.6	472.4
70°	438.2	433.1	418.5	408.2	395.4
72.5°	376.6	368.9	359.5	329.5	318.4
75°	312.4	305.5	292.7	258.5	245.6
77.5°	246.5	244.8	220.8	197.7	200.3
80°	185.7	187.4	162.6	171.2	176.3
82.5°	123.2	124.1	130.9	138.7	135.2
85°	68.5	74.5	88.2	86.4	88.2
87.5°	24.8	37.7	38.5	41.1	40.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)