

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: P393174

Luminaire Tested: **14EN-LD2-47-UNV-L92765-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393174
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 (4500K)
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: 3875.7 lumens
Efficiency: N/A
Efficacy: 82.8 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

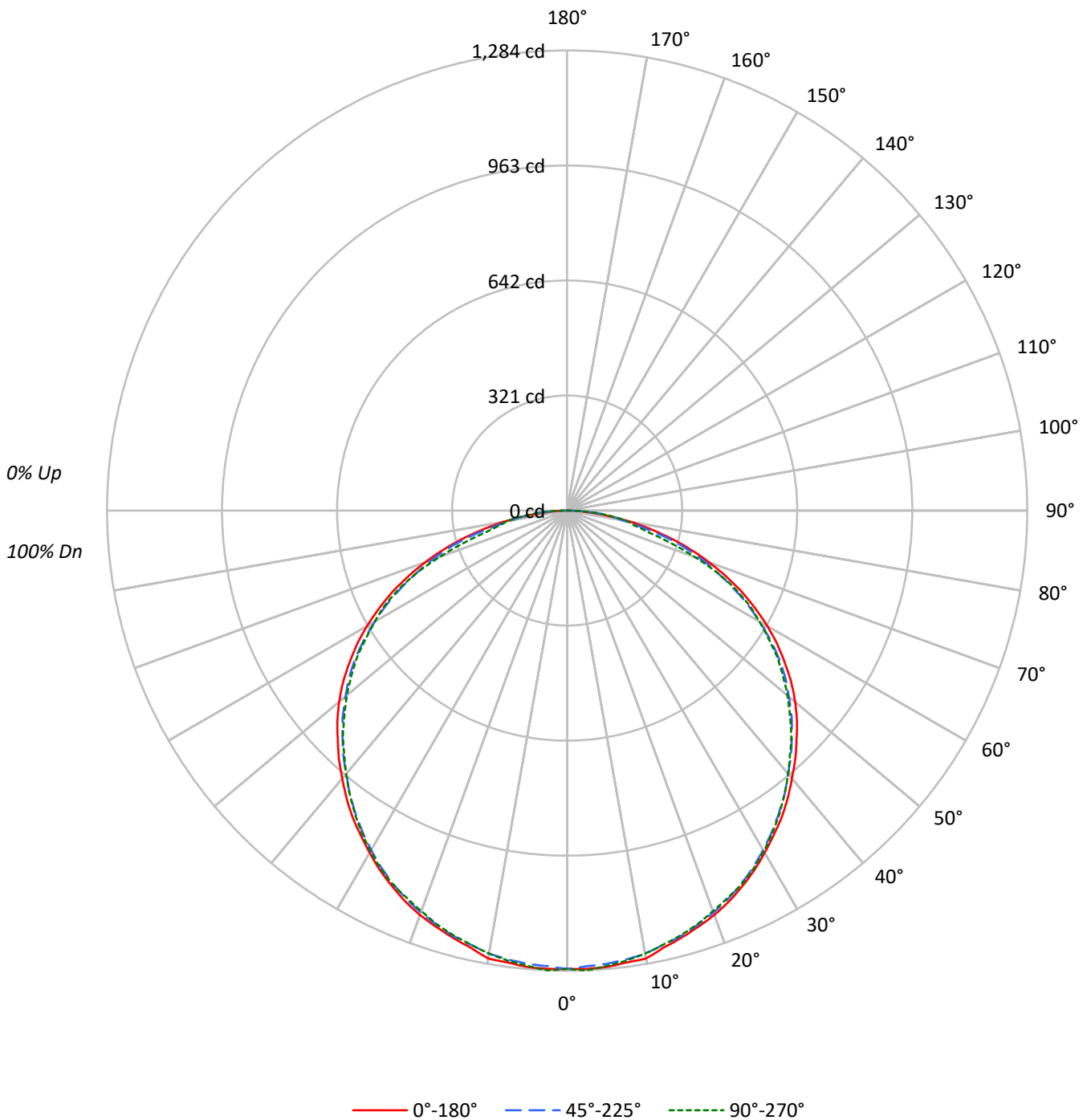
Input Watts (W): 46.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3442	3442	3442
5°	3453	3428	3444
10°	3468	3430	3430
15°	3438	3424	3417
20°	3439	3418	3406
25°	3434	3412	3417
30°	3425	3397	3410
35°	3430	3384	3392
40°	3428	3368	3371
45°	3445	3373	3367
50°	3477	3381	3360
55°	3480	3388	3361
60°	3471	3334	3334
65°	3426	3254	3301
70°	3309	3161	2986
75°	3117	2922	2452
80°	2763	2419	2622
85°	2029	2612	2612



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.1	3.1
10°-20°	347.4	9.0
20°-30°	531.0	13.7
30°-40°	647.3	16.7
40°-50°	687.8	17.7
50°-60°	647.1	16.7
60°-70°	513.7	13.3
70°-80°	292.1	7.5
80°-90°	88.2	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°	999.5	25.8
0°-40°	1646.8	42.5
0°-60°	2981.7	76.9
0°-90°	3875.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3875.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1279	1279	1279	1279	1279	
5°	1278	1277	1269	1271	1275	122
15°	1234	1233	1229	1227	1226	349
25°	1157	1154	1149	1152	1151	533
35°	1044	1042	1030	1028	1033	653
45°	905	899	886	884	885	699
55°	742	734	722	717	716	663
65°	538	530	511	518	518	530
75°	300	293	281	248	236	316
85°	66	72	85	83	85	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1279.1	1279.1	1279.1	1279.1	1279.1
2.5°	1279.9	1280.7	1272.5	1277.4	1284.0
5°	1278.2	1276.6	1269.2	1270.8	1275.0
7.5°	1271.7	1270.0	1263.5	1263.5	1266.7
10°	1269.2	1261.0	1255.2	1253.6	1255.2
12.5°	1248.7	1248.7	1241.3	1242.1	1240.5
15°	1233.9	1233.1	1229.0	1227.3	1226.5
17.5°	1217.5	1215.8	1211.7	1215.0	1210.1
20°	1201.0	1198.6	1193.6	1196.1	1189.5
22.5°	1180.5	1176.4	1173.1	1177.2	1169.8
25°	1156.7	1154.2	1149.3	1151.7	1150.9
27.5°	1131.2	1129.6	1123.0	1123.0	1126.3
30°	1102.4	1101.6	1093.4	1094.2	1097.5
32.5°	1072.9	1071.2	1063.0	1060.5	1066.3
35°	1044.1	1042.5	1030.2	1027.7	1032.6
37.5°	1011.3	1008.8	996.5	992.4	996.5
40°	975.9	974.3	958.7	955.4	959.5
42.5°	942.3	936.5	925.0	920.1	920.9
45°	905.3	898.7	886.4	883.9	884.7
47.5°	870.0	860.9	849.4	847.0	842.9
50°	830.5	819.8	807.5	804.2	802.6
52.5°	788.6	777.1	767.3	760.7	759.1
55°	741.8	734.4	722.1	717.2	716.3
57.5°	695.8	686.8	672.8	667.9	667.1
60°	644.9	639.1	619.4	618.6	619.4
62.5°	592.3	584.1	567.7	569.3	574.2
65°	538.1	529.9	511.0	517.5	518.4
67.5°	479.8	473.2	454.3	458.4	453.5
70°	420.6	415.7	401.7	391.9	379.5
72.5°	361.5	354.1	345.0	316.3	305.6
75°	299.8	293.3	281.0	248.1	235.8
77.5°	236.6	234.9	211.9	189.8	192.2
80°	178.3	179.9	156.1	164.3	169.2
82.5°	118.3	119.1	125.7	133.1	129.8
85°	65.7	71.5	84.6	83.0	84.6
87.5°	23.8	36.1	37.0	39.4	38.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)