

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: P393163

Luminaire Tested: **14EN-LD2-47-UNV-L83050-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393163
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-L83050-W2A-1-U (3000K)
Description: 1X4 ENCOUNTER, 4700 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4642.1 lumens
Efficiency: N/A
Efficacy: 97.7 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

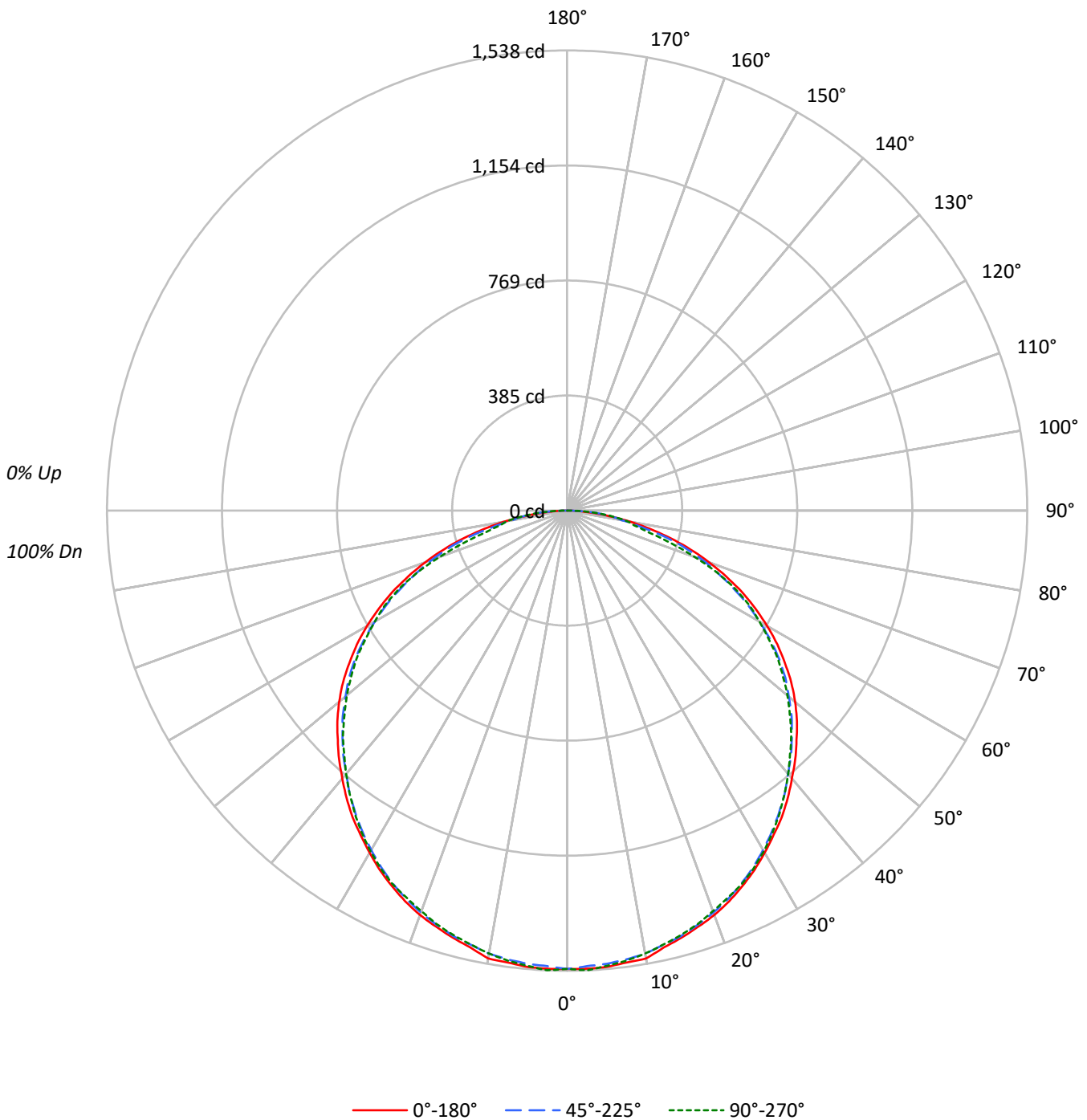
Input Watts (W): 47.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4123	4123	4123
5°	4136	4106	4125
10°	4154	4108	4108
15°	4117	4101	4092
20°	4119	4094	4080
25°	4113	4087	4093
30°	4103	4069	4085
35°	4108	4053	4063
40°	4106	4034	4037
45°	4126	4040	4033
50°	4165	4049	4024
55°	4168	4058	4025
60°	4157	3993	3993
65°	4104	3897	3954
70°	3964	3786	3577
75°	3734	3499	2936
80°	3309	2898	3141
85°	2430	3128	3128



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.0	3.1
10°-20°	416.1	9.0
20°-30°	636.0	13.7
30°-40°	775.3	16.7
40°-50°	823.8	17.7
50°-60°	775.1	16.7
60°-70°	615.2	13.3
70°-80°	349.9	7.5
80°-90°	105.7	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°	1197.1	25.8
0°-40°	1972.4	42.5
0°-60°	3571.4	76.9
0°-90°	4642.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4642.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1532	1532	1532	1532	1532	
5°	1531	1529	1520	1522	1527	146
15°	1478	1477	1472	1470	1469	418
25°	1385	1382	1376	1380	1378	639
35°	1251	1249	1234	1231	1237	782
45°	1084	1076	1062	1059	1060	838
55°	888	880	865	859	858	794
65°	644	635	612	620	621	635
75°	359	351	336	297	282	378
85°	79	86	101	99	101	97
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1532.0	1532.0	1532.0	1532.0	1532.0
2.5°	1533.0	1534.0	1524.1	1530.0	1537.9
5°	1531.0	1529.1	1520.2	1522.2	1527.1
7.5°	1523.2	1521.2	1513.3	1513.3	1517.2
10°	1520.2	1510.4	1503.5	1501.5	1503.5
12.5°	1495.6	1495.6	1486.7	1487.7	1485.8
15°	1477.9	1476.9	1472.0	1470.0	1469.0
17.5°	1458.2	1456.2	1451.3	1455.3	1449.4
20°	1438.5	1435.6	1429.7	1432.6	1424.8
22.5°	1413.9	1409.0	1405.1	1410.0	1401.1
25°	1385.4	1382.4	1376.5	1379.5	1378.5
27.5°	1354.9	1352.9	1345.1	1345.1	1349.0
30°	1320.5	1319.5	1309.6	1310.6	1314.6
32.5°	1285.0	1283.1	1273.2	1270.3	1277.2
35°	1250.6	1248.6	1233.9	1230.9	1236.8
37.5°	1211.2	1208.3	1193.5	1188.6	1193.5
40°	1168.9	1167.0	1148.3	1144.3	1149.3
42.5°	1128.6	1121.7	1107.9	1102.0	1103.0
45°	1084.3	1076.4	1061.7	1058.7	1059.7
47.5°	1042.0	1031.2	1017.4	1014.5	1009.5
50°	994.8	982.0	967.2	963.3	961.3
52.5°	944.6	930.8	919.0	911.1	909.2
55°	888.5	879.6	864.9	859.0	858.0
57.5°	833.4	822.6	805.9	799.9	799.0
60°	772.4	765.5	741.9	740.9	741.9
62.5°	709.4	699.6	679.9	681.9	687.8
65°	644.5	634.6	612.0	619.9	620.9
67.5°	574.6	566.8	544.1	549.0	543.1
70°	503.8	497.9	481.2	469.3	454.6
72.5°	432.9	424.1	413.3	378.8	366.0
75°	359.1	351.3	336.5	297.2	282.4
77.5°	283.4	281.4	253.9	227.3	230.2
80°	213.5	215.5	187.0	196.8	202.7
82.5°	141.7	142.7	150.5	159.4	155.5
85°	78.7	85.6	101.3	99.4	101.3
87.5°	28.5	43.3	44.3	47.2	46.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)