

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: P393156

Luminaire Tested: **14EN-LD2-47-UNV-L82765-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393156
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-L82765-W2A-1-U (3500K)
Description: 1X4 ENCOUNTER, 4700 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4468.3 lumens
Efficiency: N/A
Efficacy: 95.1 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

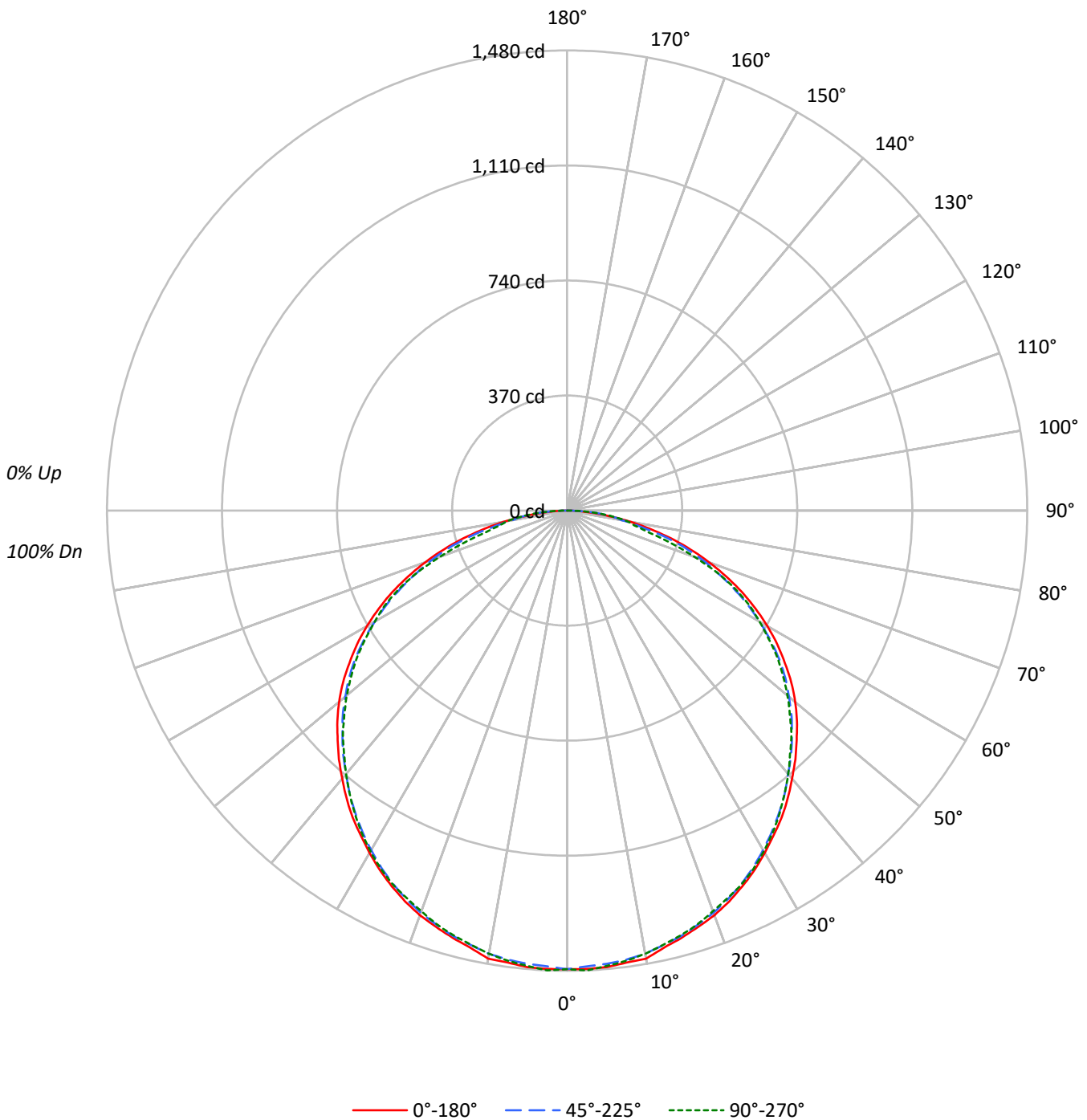
Input Watts (W): 47
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3968	3968	3968
5°	3981	3953	3971
10°	3998	3954	3954
15°	3963	3947	3939
20°	3965	3941	3927
25°	3959	3934	3940
30°	3949	3917	3932
35°	3955	3902	3911
40°	3953	3883	3886
45°	3972	3889	3882
50°	4008	3898	3874
55°	4012	3906	3875
60°	4001	3843	3843
65°	3950	3751	3805
70°	3815	3644	3443
75°	3594	3368	2826
80°	3185	2789	3023
85°	2340	3013	3013



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.6	3.1
10°-20°	400.6	9.0
20°-30°	612.2	13.7
30°-40°	746.3	16.7
40°-50°	793.0	17.7
50°-60°	746.1	16.7
60°-70°	592.2	13.3
70°-80°	336.8	7.5
80°-90°	101.7	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°	1152.3	25.8
0°-40°	1898.6	42.5
0°-60°	3437.7	76.9
0°-90°	4468.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4468.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1475	1475	1475	1475	1475	
5°	1474	1472	1463	1465	1470	140
15°	1423	1422	1417	1415	1414	402
25°	1334	1331	1325	1328	1327	615
35°	1204	1202	1188	1185	1190	753
45°	1044	1036	1022	1019	1020	806
55°	855	847	832	827	826	765
65°	620	611	589	597	598	611
75°	346	338	324	286	272	364
85°	76	82	98	96	98	93
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1474.7	1474.7	1474.7	1474.7	1474.7
2.5°	1475.6	1476.6	1467.1	1472.8	1480.3
5°	1473.7	1471.8	1463.3	1465.2	1469.9
7.5°	1466.1	1464.2	1456.7	1456.7	1460.5
10°	1463.3	1453.8	1447.2	1445.3	1447.2
12.5°	1439.6	1439.6	1431.1	1432.0	1430.1
15°	1422.6	1421.6	1416.9	1415.0	1414.0
17.5°	1403.6	1401.7	1397.0	1400.8	1395.1
20°	1384.7	1381.8	1376.2	1379.0	1371.4
22.5°	1361.0	1356.3	1352.5	1357.2	1348.7
25°	1333.5	1330.7	1325.0	1327.9	1326.9
27.5°	1304.2	1302.3	1294.7	1294.7	1298.5
30°	1271.0	1270.1	1260.6	1261.6	1265.3
32.5°	1236.9	1235.0	1225.6	1222.7	1229.4
35°	1203.8	1201.9	1187.7	1184.8	1190.5
37.5°	1165.9	1163.1	1148.9	1144.1	1148.9
40°	1125.2	1123.3	1105.3	1101.5	1106.2
42.5°	1086.3	1079.7	1066.5	1060.8	1061.7
45°	1043.7	1036.1	1021.9	1019.1	1020.0
47.5°	1003.0	992.6	979.3	976.5	971.7
50°	957.5	945.2	931.0	927.2	925.3
52.5°	909.2	896.0	884.6	877.0	875.1
55°	855.2	846.7	832.5	826.8	825.9
57.5°	802.2	791.8	775.7	770.0	769.1
60°	743.5	736.9	714.1	713.2	714.1
62.5°	682.9	673.4	654.5	656.4	662.0
65°	620.4	610.9	589.1	596.7	597.6
67.5°	553.1	545.5	523.8	528.5	522.8
70°	484.9	479.2	463.1	451.8	437.6
72.5°	416.7	408.2	397.8	364.6	352.3
75°	345.7	338.1	323.9	286.0	271.8
77.5°	272.8	270.9	244.4	218.8	221.6
80°	205.5	207.4	180.0	189.4	195.1
82.5°	136.4	137.3	144.9	153.4	149.6
85°	75.8	82.4	97.6	95.7	97.6
87.5°	27.5	41.7	42.6	45.5	44.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)