

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: P393154

Luminaire Tested: **14EN-LD2-47-UNV-L82765-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393154
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 (2700K)
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: 4285.8 lumens
Efficiency: N/A
Efficacy: 91.4 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

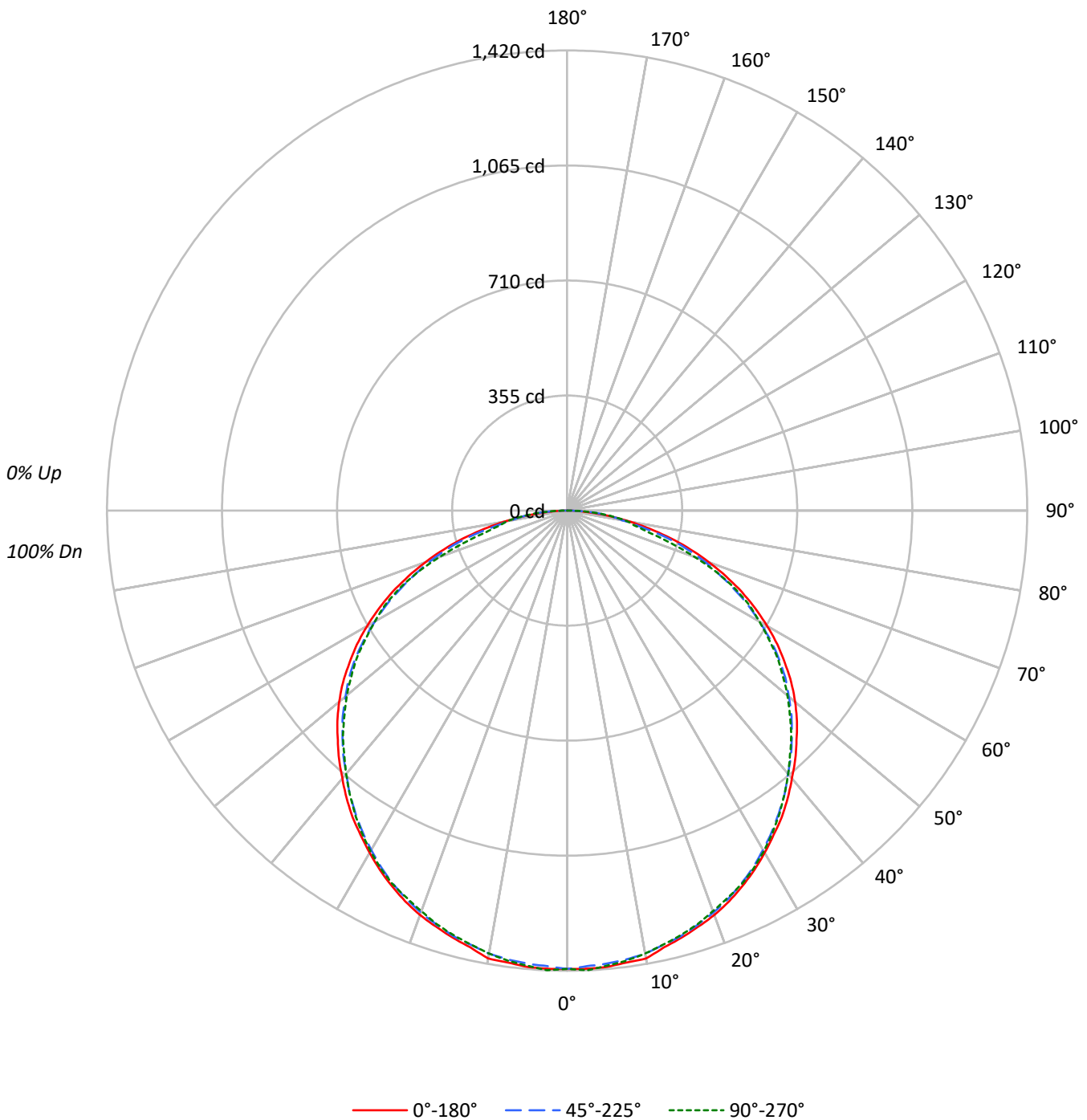
Input Watts (W): 46.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3806	3806	3806
5°	3818	3791	3809
10°	3835	3793	3793
15°	3801	3786	3779
20°	3803	3780	3767
25°	3798	3774	3779
30°	3788	3757	3771
35°	3793	3742	3751
40°	3791	3724	3727
45°	3810	3730	3723
50°	3845	3738	3715
55°	3849	3746	3717
60°	3838	3687	3687
65°	3789	3598	3650
70°	3659	3495	3302
75°	3448	3230	2711
80°	3054	2675	2899
85°	2245	2890	2890



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.9	3.1
10°-20°	384.2	9.0
20°-30°	587.2	13.7
30°-40°	715.8	16.7
40°-50°	760.6	17.7
50°-60°	715.6	16.7
60°-70°	568.0	13.3
70°-80°	323.0	7.5
80°-90°	97.6	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°	1105.3	25.8
0°-40°	1821.0	42.5
0°-60°	3297.3	76.9
0°-90°	4285.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4285.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1414	1414	1414	1414	1414	
5°	1414	1412	1404	1405	1410	134
15°	1364	1364	1359	1357	1356	386
25°	1279	1276	1271	1274	1273	590
35°	1155	1153	1139	1136	1142	722
45°	1001	994	980	978	978	774
55°	820	812	798	793	792	733
65°	595	586	565	572	573	586
75°	332	324	311	274	261	349
85°	73	79	94	92	94	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1414.4	1414.4	1414.4	1414.4	1414.4
2.5°	1415.3	1416.2	1407.2	1412.6	1419.9
5°	1413.5	1411.7	1403.5	1405.3	1409.9
7.5°	1406.3	1404.4	1397.2	1397.2	1400.8
10°	1403.5	1394.4	1388.1	1386.3	1388.1
12.5°	1380.8	1380.8	1372.6	1373.5	1371.7
15°	1364.5	1363.6	1359.0	1357.2	1356.3
17.5°	1346.3	1344.5	1339.9	1343.6	1338.1
20°	1328.1	1325.4	1320.0	1322.7	1315.4
22.5°	1305.4	1300.9	1297.2	1301.8	1293.6
25°	1279.1	1276.3	1270.9	1273.6	1272.7
27.5°	1250.9	1249.1	1241.8	1241.8	1245.5
30°	1219.1	1218.2	1209.1	1210.0	1213.7
32.5°	1186.4	1184.6	1175.5	1172.8	1179.1
35°	1154.6	1152.8	1139.2	1136.4	1141.9
37.5°	1118.3	1115.6	1101.9	1097.4	1101.9
40°	1079.2	1077.4	1060.1	1056.5	1061.0
42.5°	1042.0	1035.6	1022.9	1017.4	1018.4
45°	1001.1	993.8	980.2	977.5	978.4
47.5°	962.0	952.0	939.3	936.6	932.1
50°	918.4	906.6	893.0	889.4	887.5
52.5°	872.1	859.4	848.5	841.2	839.4
55°	820.3	812.1	798.5	793.1	792.2
57.5°	769.4	759.4	744.0	738.6	737.6
60°	713.1	706.8	685.0	684.0	685.0
62.5°	655.0	645.9	627.7	629.5	635.0
65°	595.0	585.9	565.0	572.3	573.2
67.5°	530.5	523.3	502.4	506.9	501.5
70°	465.1	459.7	444.2	433.3	419.7
72.5°	399.7	391.5	381.5	349.7	337.9
75°	331.6	324.3	310.7	274.3	260.7
77.5°	261.6	259.8	234.4	209.8	212.6
80°	197.1	198.9	172.6	181.7	187.1
82.5°	130.8	131.7	139.0	147.2	143.5
85°	72.7	79.0	93.6	91.8	93.6
87.5°	26.3	40.0	40.9	43.6	42.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)