

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: P393171

Luminaire Tested: **14EN-LD2-47-UNV-L92765-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393171
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 (3000K)
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: 3652.3 lumens
Efficiency: N/A
Efficacy: 78.5 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

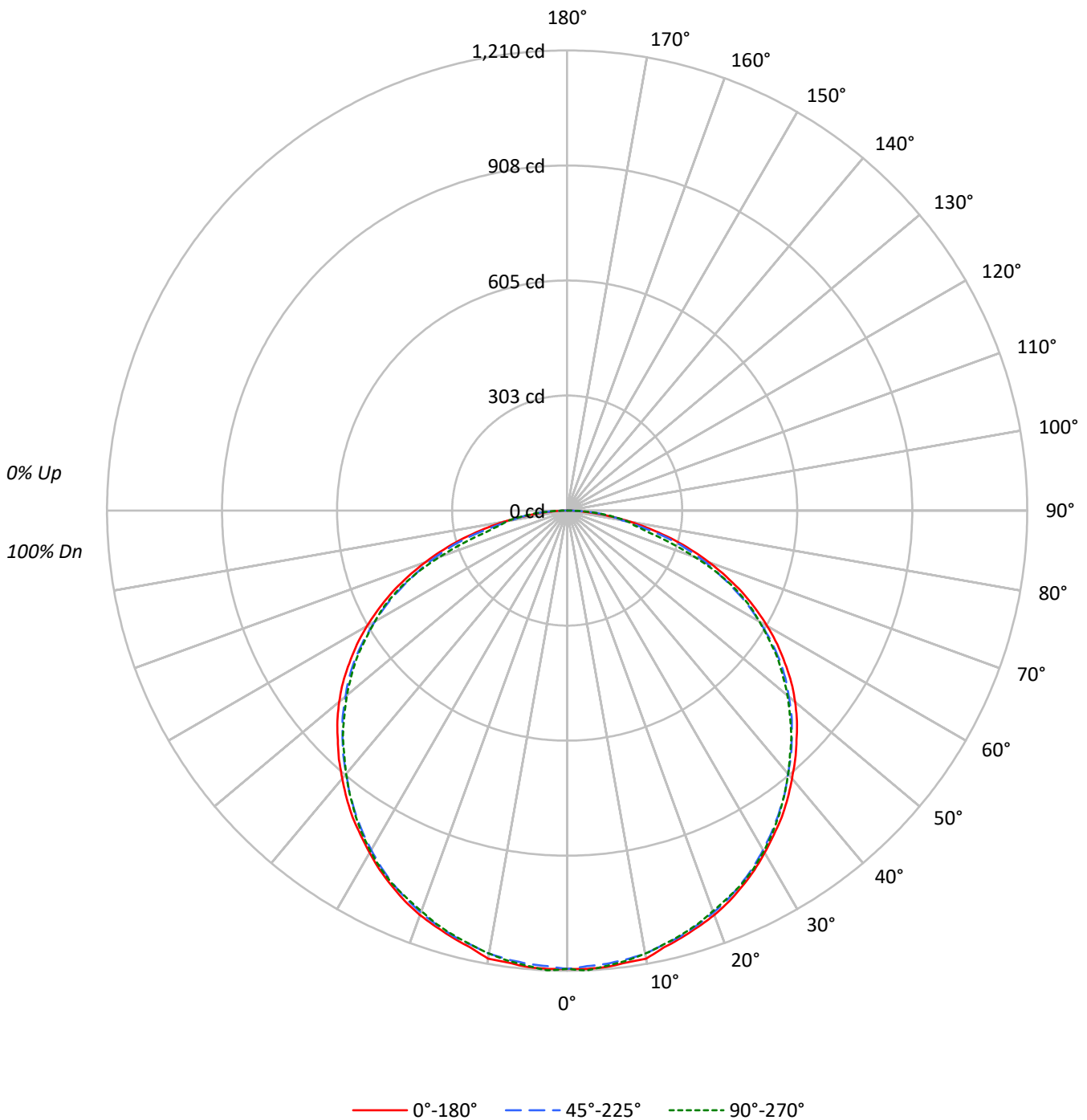
Input Watts (W): 46.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3244	3244	3244
5°	3254	3231	3246
10°	3268	3232	3232
15°	3239	3226	3220
20°	3241	3221	3210
25°	3236	3216	3220
30°	3228	3202	3214
35°	3232	3189	3197
40°	3231	3173	3176
45°	3247	3179	3173
50°	3277	3186	3166
55°	3280	3193	3167
60°	3271	3141	3141
65°	3229	3066	3110
70°	3119	2979	2814
75°	2938	2753	2310
80°	2603	2280	2472
85°	1911	2461	2461



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.1	3.1
10°-20°	327.4	9.0
20°-30°	500.4	13.7
30°-40°	610.0	16.7
40°-50°	648.2	17.7
50°-60°	609.8	16.7
60°-70°	484.1	13.3
70°-80°	275.3	7.5
80°-90°	83.1	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°	941.9	25.8
0°-40°	1551.9	42.5
0°-60°	2809.9	76.9
0°-90°	3652.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3652.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1205	1205	1205	1205	1205	
5°	1205	1203	1196	1198	1202	115
15°	1163	1162	1158	1157	1156	329
25°	1090	1088	1083	1085	1085	503
35°	984	982	971	968	973	615
45°	853	847	835	833	834	659
55°	699	692	680	676	675	625
65°	507	499	482	488	488	500
75°	283	276	265	234	222	298
85°	62	67	80	78	80	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1205.4	1205.4	1205.4	1205.4	1205.4
2.5°	1206.1	1206.9	1199.2	1203.8	1210.0
5°	1204.6	1203.0	1196.1	1197.6	1201.5
7.5°	1198.4	1196.8	1190.6	1190.6	1193.7
10°	1196.1	1188.3	1182.9	1181.4	1182.9
12.5°	1176.7	1176.7	1169.7	1170.5	1169.0
15°	1162.8	1162.0	1158.1	1156.6	1155.8
17.5°	1147.3	1145.7	1141.9	1145.0	1140.3
20°	1131.8	1129.5	1124.8	1127.2	1121.0
22.5°	1112.5	1108.6	1105.5	1109.4	1102.4
25°	1090.0	1087.7	1083.0	1085.4	1084.6
27.5°	1066.0	1064.5	1058.3	1058.3	1061.4
30°	1038.9	1038.1	1030.4	1031.2	1034.3
32.5°	1011.0	1009.5	1001.8	999.4	1004.9
35°	983.9	982.4	970.8	968.5	973.1
37.5°	953.0	950.7	939.0	935.2	939.0
40°	919.7	918.1	903.4	900.3	904.2
42.5°	888.0	882.5	871.7	867.1	867.8
45°	853.1	846.9	835.3	833.0	833.8
47.5°	819.8	811.3	800.5	798.2	794.3
50°	782.7	772.6	761.0	757.9	756.3
52.5°	743.2	732.3	723.1	716.9	715.3
55°	699.1	692.1	680.5	675.8	675.1
57.5°	655.7	647.2	634.0	629.4	628.6
60°	607.7	602.3	583.7	582.9	583.7
62.5°	558.2	550.4	534.9	536.5	541.1
65°	507.1	499.3	481.5	487.7	488.5
67.5°	452.1	445.9	428.1	432.0	427.3
70°	396.4	391.7	378.6	369.3	357.7
72.5°	340.6	333.7	325.1	298.0	288.0
75°	282.6	276.4	264.8	233.8	222.2
77.5°	223.0	221.4	199.7	178.8	181.2
80°	168.0	169.5	147.1	154.8	159.5
82.5°	111.5	112.3	118.4	125.4	122.3
85°	61.9	67.4	79.7	78.2	79.7
87.5°	22.5	34.1	34.8	37.2	36.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)