

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: P393145

Luminaire Tested: **14EN-LD2-43-UNV-L92765-W2A-1-U (6500K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393145  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-54)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14EN-LD2-43-UNV-L92765-W2A-1-U (6500K)  
Description: 1X4 ENCOUNTER, 4300 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3672.0 lumens  
Efficiency: N/A  
Efficacy: 88.3 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

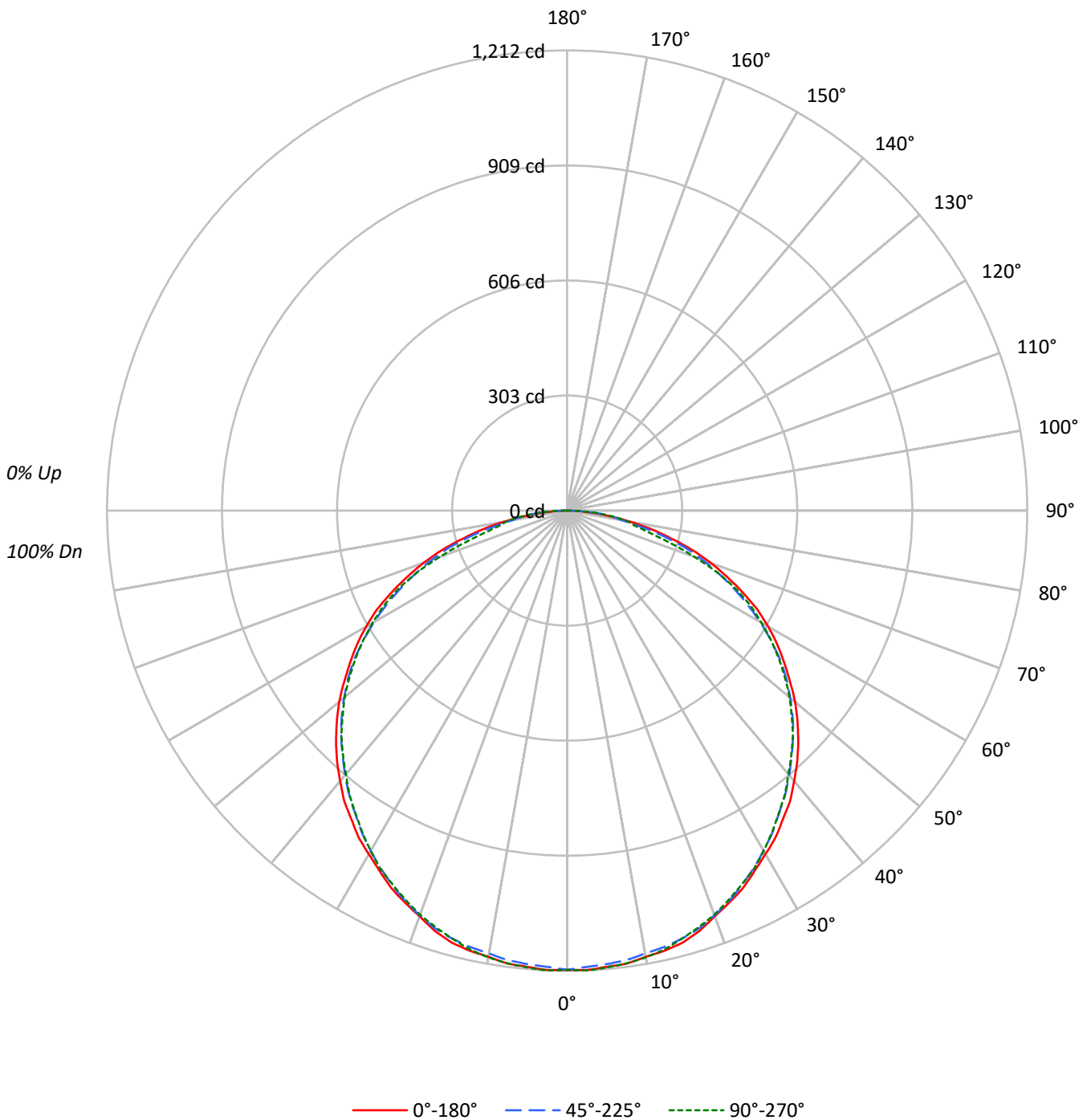
Input Watts (W): 41.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	96	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	35	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°	3255	3255	3255
5°	3258	3240	3263
10°	3261	3237	3265
15°	3281	3252	3252
20°	3256	3249	3244
25°	3256	3233	3228
30°	3246	3214	3217
35°	3256	3197	3194
40°	3267	3197	3185
45°	3276	3204	3201
50°	3282	3210	3203
55°	3273	3212	3196
60°	3290	3160	3183
65°	3249	3079	3139
70°	3166	2989	2819
75°	2935	2756	2298
80°	2596	2249	2475
85°	1893	2452	2507



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.6	3.1
10°-20°	330.1	9.0
20°-30°	502.3	13.7
30°-40°	613.1	16.7
40°-50°	653.3	17.8
50°-60°	612.5	16.7
60°-70°	486.5	13.2
70°-80°	276.6	7.5
80°-90°	83.0	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°	947.0	25.8
0°-40°	1560.1	42.5
0°-60°	2825.9	77.0
0°-90°	3672.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3672.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1210	1210	1210	1210	1210	
5°	1206	1204	1199	1209	1208	115
15°	1178	1174	1167	1166	1167	332
25°	1097	1091	1089	1085	1087	505
35°	991	983	973	976	972	621
45°	861	856	842	839	841	664
55°	698	692	685	676	681	625
65°	510	502	484	490	493	504
75°	282	280	265	236	221	301
85°	61	67	79	79	81	76
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1209.7	1209.7	1209.7	1209.7	1209.7
2.5°	1211.4	1207.9	1202.8	1214.0	1212.3
5°	1206.2	1203.6	1199.3	1208.8	1207.9
7.5°	1203.6	1198.4	1194.1	1204.5	1202.8
10°	1193.3	1194.1	1184.6	1195.0	1195.0
12.5°	1187.2	1185.5	1177.7	1181.2	1183.8
15°	1177.7	1174.3	1167.4	1165.6	1167.4
17.5°	1160.5	1157.0	1154.4	1148.4	1151.0
20°	1137.1	1138.9	1134.5	1129.4	1132.8
22.5°	1117.3	1115.6	1113.8	1108.6	1110.4
25°	1096.6	1091.4	1088.8	1085.3	1087.1
27.5°	1069.8	1066.3	1062.9	1061.2	1064.6
30°	1044.8	1039.6	1034.4	1032.7	1035.3
32.5°	1021.4	1011.9	1005.9	1006.8	1004.2
35°	991.2	982.6	973.1	975.7	972.2
37.5°	964.5	954.1	943.7	946.3	942.0
40°	929.9	923.9	910.1	911.8	906.6
42.5°	897.1	893.7	875.5	876.4	873.8
45°	860.8	856.5	841.8	839.3	841.0
47.5°	822.9	818.5	805.6	799.5	802.1
50°	784.0	778.8	766.7	761.5	765.0
52.5°	740.0	737.4	727.9	720.1	722.7
55°	697.7	691.6	684.7	676.1	681.2
57.5°	656.2	649.3	636.3	632.0	637.2
60°	611.3	600.1	587.1	583.7	591.5
62.5°	564.7	551.7	535.3	536.2	545.7
65°	510.3	501.7	483.5	489.6	493.0
67.5°	455.0	448.1	430.9	439.5	430.0
70°	402.4	393.7	379.9	368.7	358.3
72.5°	346.2	335.9	327.2	297.9	285.8
75°	282.3	279.8	265.1	235.7	221.0
77.5°	227.9	221.9	202.0	179.6	181.3
80°	167.5	171.8	145.1	155.4	159.7
82.5°	110.5	113.1	120.0	125.2	124.3
85°	61.3	67.3	79.4	79.4	81.2
87.5°	23.3	30.2	34.5	35.4	35.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)