

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: P393142

Luminaire Tested: **14EN-LD2-43-UNV-L92765-W2A-1-U (4500K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393142  
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 (4500K)  
Description: 1X4 ENCOUNTER, 4300 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3493.6 lumens  
Efficiency: N/A  
Efficacy: 84.0 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

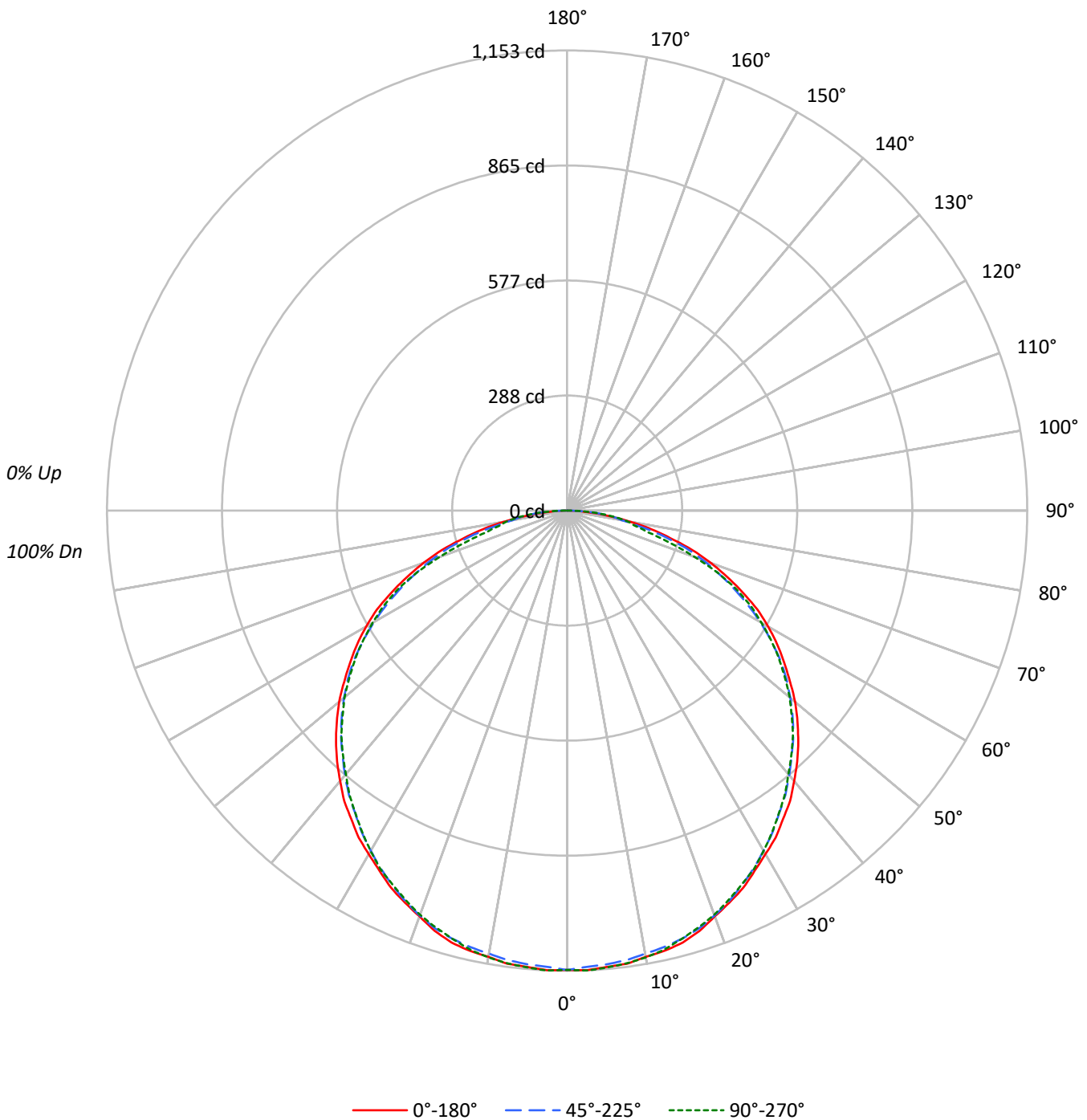
Input Watts (W): 41.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3097	3097	3097
5°	3100	3082	3105
10°	3102	3080	3107
15°	3122	3094	3094
20°	3098	3091	3086
25°	3098	3076	3071
30°	3089	3058	3061
35°	3098	3041	3039
40°	3108	3042	3030
45°	3117	3048	3045
50°	3123	3054	3047
55°	3114	3056	3041
60°	3130	3006	3028
65°	3091	2929	2987
70°	3012	2844	2682
75°	2793	2622	2187
80°	2470	2139	2356
85°	1800	2334	2384



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.1	3.1
10°-20°	314.0	9.0
20°-30°	477.9	13.7
30°-40°	583.3	16.7
40°-50°	621.5	17.8
50°-60°	582.7	16.7
60°-70°	462.9	13.2
70°-80°	263.2	7.5
80°-90°	79.0	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°	901.0	25.8
0°-40°	1484.3	42.5
0°-60°	2688.6	77.0
0°-90°	3493.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3493.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1151	1151	1151	1151	1151	
5°	1148	1145	1141	1150	1149	109
15°	1120	1117	1111	1109	1111	316
25°	1043	1038	1036	1033	1034	480
35°	943	935	926	928	925	591
45°	819	815	801	798	800	632
55°	664	658	651	643	648	594
65°	486	477	460	466	469	480
75°	269	266	252	224	210	286
85°	58	64	76	76	77	72
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1150.9	1150.9	1150.9	1150.9	1150.9
2.5°	1152.6	1149.3	1144.3	1155.0	1153.4
5°	1147.6	1145.2	1141.1	1150.1	1149.3
7.5°	1145.2	1140.2	1136.1	1146.0	1144.3
10°	1135.3	1136.1	1127.1	1136.9	1136.9
12.5°	1129.6	1127.9	1120.5	1123.8	1126.3
15°	1120.5	1117.2	1110.7	1109.0	1110.7
17.5°	1104.1	1100.8	1098.3	1092.6	1095.0
20°	1081.9	1083.5	1079.4	1074.5	1077.8
22.5°	1063.0	1061.4	1059.7	1054.8	1056.4
25°	1043.3	1038.4	1035.9	1032.6	1034.3
27.5°	1017.8	1014.5	1011.3	1009.6	1012.9
30°	994.0	989.1	984.1	982.5	985.0
32.5°	971.8	962.8	957.0	957.9	955.4
35°	943.1	934.9	925.8	928.3	925.0
37.5°	917.6	907.7	897.9	900.4	896.2
40°	884.7	879.0	865.9	867.5	862.6
42.5°	853.5	850.2	833.0	833.8	831.3
45°	819.0	814.9	801.0	798.5	800.1
47.5°	782.9	778.8	766.5	760.7	763.2
50°	745.9	741.0	729.5	724.6	727.8
52.5°	704.0	701.6	692.5	685.1	687.6
55°	663.8	658.0	651.4	643.2	648.2
57.5°	624.3	617.8	605.4	601.3	606.3
60°	581.6	570.9	558.6	555.3	562.7
62.5°	537.3	524.9	509.3	510.1	519.2
65°	485.5	477.3	460.0	465.8	469.1
67.5°	432.9	426.4	409.9	418.1	409.1
70°	382.8	374.6	361.5	350.8	340.9
72.5°	329.4	319.6	311.3	283.4	271.9
75°	268.6	266.2	252.2	224.3	210.3
77.5°	216.9	211.1	192.2	170.9	172.5
80°	159.4	163.5	138.0	147.9	152.0
82.5°	105.2	107.6	114.2	119.1	118.3
85°	58.3	64.1	75.6	75.6	77.2
87.5°	22.2	28.8	32.9	33.7	33.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)