

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: P393090

Luminaire Tested: **14EN-LD2-38-UNV-L82765-W2A-1-U (2700K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393090  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-53)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14EN-LD2-38-UNV-L82765-W2A-1-U (2700K)  
Description: 1X4 ENCOUNTER, 3800 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 3000K/5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3427.7 lumens  
Efficiency: N/A  
Efficacy: 93.4 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

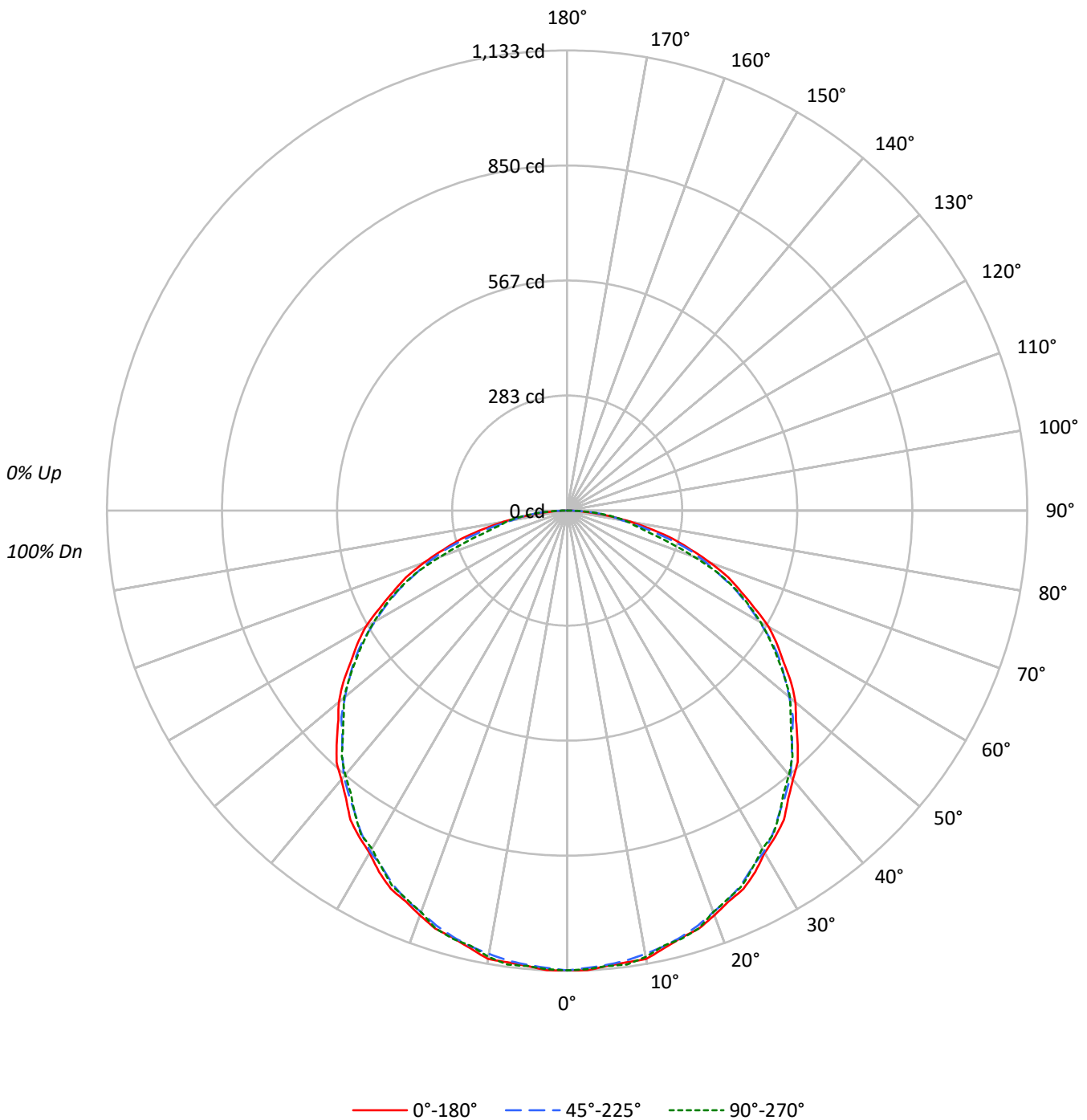
Input Watts (W): 36.7  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P393090

CATALOG NUMBER: 14EN-LD2-38-UNV-L82765-W2A-1-U (2700K)

### Luminous Intensity Polar Plot





TEST NUMBER: P393090

CATALOG NUMBER: 14EN-LD2-38-UNV-L82765-W2A-1-U (2700K)

**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°	3046	3046	3046
5°	3040	3033	3040
10°	3063	3028	3048
15°	3032	3027	3039
20°	3036	3013	3013
25°	3051	3015	3026
30°	3023	3012	2986
35°	3056	2990	2993
40°	3038	3003	2984
45°	3052	2980	2970
50°	3073	2989	3001
55°	3051	2996	2966
60°	3085	2939	2963
65°	3008	2892	2915
70°	2945	2802	2609
75°	2805	2550	2163
80°	2450	2112	2295
85°	1794	2272	2300



TEST NUMBER: P393090

CATALOG NUMBER: 14EN-LD2-38-UNV-L82765-W2A-1-U (2700K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.1	3.1
10°-20°	307.5	9.0
20°-30°	469.0	13.7
30°-40°	572.9	16.7
40°-50°	609.3	17.8
50°-60°	572.0	16.7
60°-70°	453.7	13.2
70°-80°	258.5	7.5
80°-90°	77.7	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°	883.6	25.8
0°-40°	1456.5	42.5
0°-60°	2637.8	77.0
0°-90°	3427.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3427.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1132	1132	1132	1132	1132	
5°	1126	1132	1123	1126	1126	107
15°	1088	1090	1086	1088	1091	308
25°	1027	1017	1016	1016	1019	472
35°	930	919	910	911	911	579
45°	802	798	783	784	780	619
55°	650	647	639	632	632	584
65°	472	470	454	456	458	469
75°	270	260	245	220	208	281
85°	58	64	74	74	74	71
90°	0	0	0	0	0	



TEST NUMBER: P393090

CATALOG NUMBER: 14EN-LD2-38-UNV-L82765-W2A-1-U (2700K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1131.9	1131.9	1131.9	1131.9	1131.9
2.5°	1132.8	1131.9	1127.4	1132.8	1130.1
5°	1125.5	1131.9	1122.8	1126.5	1125.5
7.5°	1121.9	1120.1	1117.4	1123.7	1127.4
10°	1121.0	1111.9	1108.3	1114.6	1115.6
12.5°	1103.7	1106.5	1099.2	1101.0	1097.4
15°	1088.3	1090.1	1086.5	1088.3	1091.0
17.5°	1079.2	1073.8	1071.0	1074.7	1078.3
20°	1060.1	1061.0	1052.0	1056.5	1052.0
22.5°	1041.1	1042.0	1036.5	1036.5	1034.7
25°	1027.4	1017.4	1015.6	1016.5	1019.3
27.5°	1002.9	999.3	988.4	992.0	990.2
30°	972.9	976.6	969.3	962.0	961.1
32.5°	952.9	946.6	943.0	940.2	944.8
35°	930.2	919.3	910.2	911.2	911.2
37.5°	893.9	893.0	883.0	878.5	875.7
40°	864.8	861.2	854.8	848.5	849.4
42.5°	840.3	828.5	818.5	816.7	821.2
45°	802.1	797.6	783.1	784.0	780.3
47.5°	764.0	763.1	754.0	746.7	745.8
50°	734.0	724.9	714.0	712.2	716.8
52.5°	694.9	690.4	675.0	675.0	675.0
55°	650.4	646.8	638.6	632.3	632.3
57.5°	613.2	605.9	595.9	591.4	591.4
60°	573.2	562.3	546.0	547.8	550.5
62.5°	520.5	515.1	500.5	498.7	504.2
65°	472.4	469.7	454.2	456.0	457.8
67.5°	429.7	417.9	400.6	407.0	403.3
70°	374.3	367.9	356.1	343.4	331.6
72.5°	318.9	315.2	308.9	278.0	267.1
75°	269.8	259.8	245.3	219.8	208.0
77.5°	211.7	208.9	188.0	168.1	169.9
80°	158.1	159.9	136.3	144.4	148.1
82.5°	103.6	107.2	111.7	117.2	114.5
85°	58.1	64.5	73.6	73.6	74.5
87.5°	20.9	30.9	32.7	32.7	32.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)