

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: P393093

Luminaire Tested: **14EN-LD2-38-UNV-L82765-W2A-1-U (4000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393093  
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 (4000K)  
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: 3524.8 lumens  
Efficiency: N/A  
Efficacy: 96.0 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

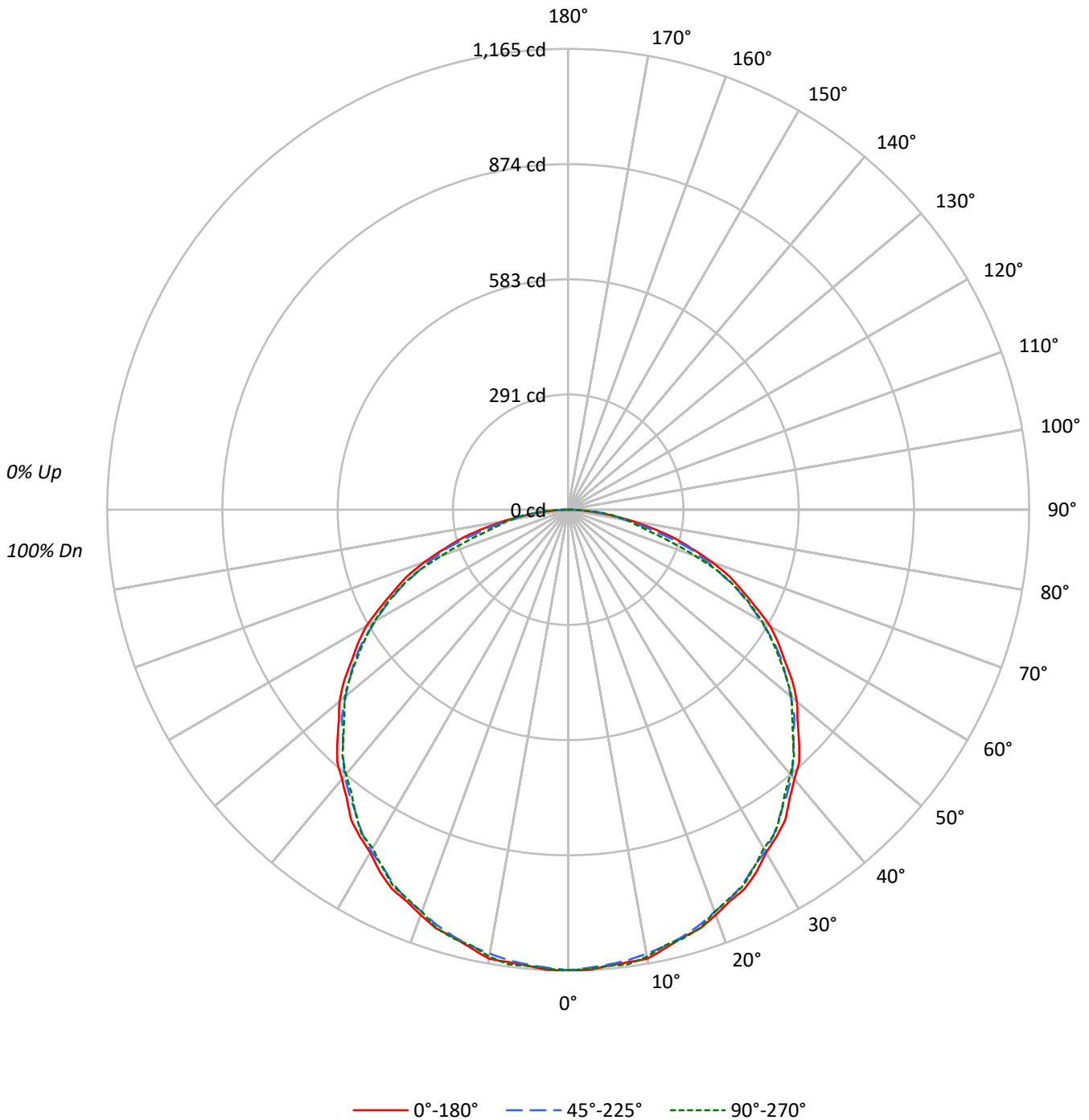
Input Watts (W): 36.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P393093

CATALOG NUMBER: 14EN-LD2-38-UNV-L82765-W2A-1-U (4000K)

### Luminous Intensity Polar Plot





TEST NUMBER: P393093

CATALOG NUMBER: 14EN-LD2-38-UNV-L82765-W2A-1-U (4000K)

**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°	3132	3132	3132
5°	3126	3119	3126
10°	3150	3114	3134
15°	3118	3112	3126
20°	3122	3098	3098
25°	3137	3101	3112
30°	3109	3097	3071
35°	3143	3075	3078
40°	3124	3088	3068
45°	3139	3064	3054
50°	3160	3074	3085
55°	3138	3081	3050
60°	3172	3021	3047
65°	3093	2974	2998
70°	3028	2881	2683
75°	2884	2622	2224
80°	2518	2171	2360
85°	1846	2337	2365



TEST NUMBER: P393093

CATALOG NUMBER: 14EN-LD2-38-UNV-L82765-W2A-1-U (4000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.2	3.1
10°-20°	316.2	9.0
20°-30°	482.3	13.7
30°-40°	589.1	16.7
40°-50°	626.6	17.8
50°-60°	588.2	16.7
60°-70°	466.5	13.2
70°-80°	265.8	7.5
80°-90°	79.9	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°	908.6	25.8
0°-40°	1497.7	42.5
0°-60°	2712.5	77.0
0°-90°	3524.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3524.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1164	1164	1164	1164	1164	
5°	1157	1164	1155	1158	1157	110
15°	1119	1121	1117	1119	1122	317
25°	1056	1046	1044	1045	1048	485
35°	957	945	936	937	937	595
45°	825	820	805	806	802	637
55°	669	665	657	650	650	601
65°	486	483	467	469	471	483
75°	277	267	252	226	214	289
85°	60	66	76	76	77	73
90°	0	0	0	0	0	



TEST NUMBER: P393093

CATALOG NUMBER: 14EN-LD2-38-UNV-L82765-W2A-1-U (4000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1163.9	1163.9	1163.9	1163.9	1163.9
2.5°	1164.9	1163.9	1159.3	1164.9	1162.1
5°	1157.4	1163.9	1154.6	1158.3	1157.4
7.5°	1153.7	1151.8	1149.0	1155.5	1159.3
10°	1152.7	1143.4	1139.7	1146.2	1147.1
12.5°	1135.0	1137.8	1130.3	1132.2	1128.4
15°	1119.1	1121.0	1117.2	1119.1	1121.9
17.5°	1109.8	1104.2	1101.4	1105.1	1108.8
20°	1090.1	1091.1	1081.7	1086.4	1081.7
22.5°	1070.5	1071.5	1065.9	1065.9	1064.0
25°	1056.5	1046.2	1044.4	1045.3	1048.1
27.5°	1031.3	1027.6	1016.4	1020.1	1018.2
30°	1000.5	1004.2	996.7	989.3	988.3
32.5°	979.9	973.4	969.6	966.8	971.5
35°	956.6	945.4	936.0	936.9	936.9
37.5°	919.2	918.3	908.0	903.3	900.5
40°	889.3	885.6	879.0	872.5	873.4
42.5°	864.1	851.9	841.7	839.8	844.5
45°	824.9	820.2	805.2	806.2	802.4
47.5°	785.6	784.7	775.3	767.9	766.9
50°	754.8	745.4	734.2	732.4	737.0
52.5°	714.6	710.0	694.1	694.1	694.1
55°	668.8	665.1	656.7	650.2	650.2
57.5°	630.5	623.1	612.8	608.1	608.1
60°	589.4	578.2	561.4	563.3	566.1
62.5°	535.3	529.7	514.7	512.8	518.5
65°	485.8	483.0	467.1	468.9	470.8
67.5°	441.9	429.7	412.0	418.5	414.8
70°	384.9	378.3	366.2	353.1	341.0
72.5°	327.9	324.1	317.6	285.8	274.6
75°	277.4	267.2	252.2	226.1	213.9
77.5°	217.7	214.9	193.4	172.8	174.7
80°	162.5	164.4	140.1	148.5	152.3
82.5°	106.5	110.2	114.9	120.5	117.7
85°	59.8	66.3	75.7	75.7	76.6
87.5°	21.5	31.8	33.6	33.6	33.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)