

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: P393111

Luminaire Tested: **14EN-LD2-38-UNV-L92765-W2A-1-U (5000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393111
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-L92765-W2A-1-U (5000K)
Description: 1X4 ENCOUNTER, 3800 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3180.5 lumens
Efficiency: N/A
Efficacy: 86.9 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

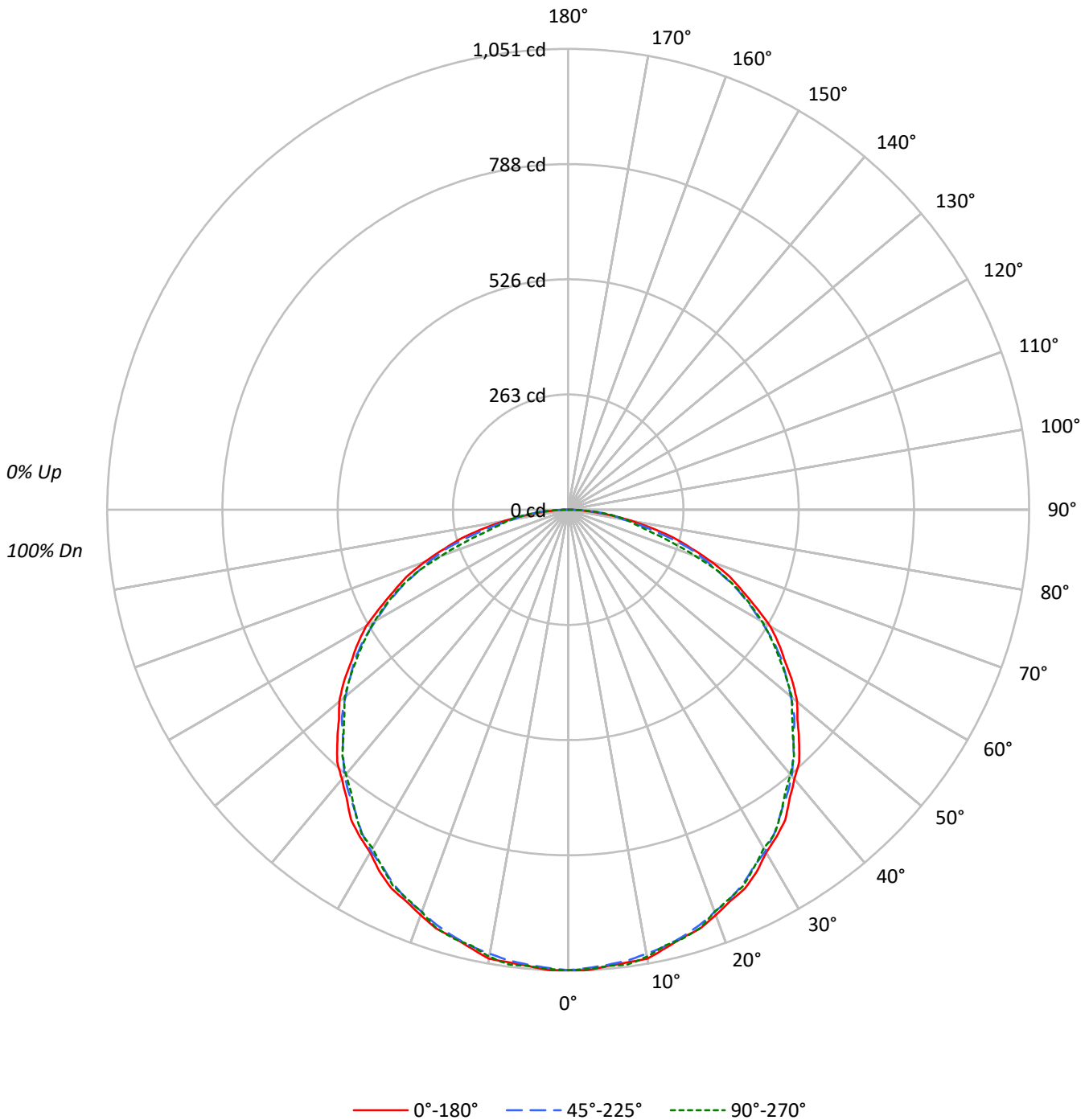
Input Watts (W): 36.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P393111

CATALOG NUMBER: 14EN-LD2-38-UNV-L92765-W2A-1-U (5000K)

Luminous Intensity Polar Plot





TEST NUMBER: P393111

CATALOG NUMBER: 14EN-LD2-38-UNV-L92765-W2A-1-U (5000K)

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°	2826	2826	2826
5°	2821	2814	2821
10°	2842	2810	2828
15°	2813	2808	2820
20°	2817	2795	2795
25°	2831	2798	2808
30°	2805	2795	2771
35°	2835	2775	2777
40°	2819	2786	2768
45°	2833	2765	2756
50°	2851	2774	2784
55°	2831	2780	2753
60°	2863	2726	2749
65°	2791	2683	2705
70°	2733	2600	2421
75°	2602	2366	2007
80°	2273	1959	2129
85°	1664	2109	2133



TEST NUMBER: P393111

CATALOG NUMBER: 14EN-LD2-38-UNV-L92765-W2A-1-U (5000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.4	3.1
10°-20°	285.3	9.0
20°-30°	435.1	13.7
30°-40°	531.6	16.7
40°-50°	565.4	17.8
50°-60°	530.8	16.7
60°-70°	420.9	13.2
70°-80°	239.8	7.5
80°-90°	72.1	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°	819.8	25.8
0°-40°	1351.4	42.5
0°-60°	2447.5	77.0
0°-90°	3180.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3180.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1050	1050	1050	1050	1050	
5°	1044	1050	1042	1045	1044	100
15°	1010	1012	1008	1010	1012	286
25°	953	944	942	943	946	438
35°	863	853	845	845	845	537
45°	744	740	727	727	724	575
55°	604	600	593	587	587	542
65°	438	436	421	423	425	436
75°	250	241	228	204	193	261
85°	54	60	68	68	69	66
90°	0	0	0	0	0	



TEST NUMBER: P393111

CATALOG NUMBER: 14EN-LD2-38-UNV-L92765-W2A-1-U (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1050.3	1050.3	1050.3	1050.3	1050.3
2.5°	1051.1	1050.3	1046.0	1051.1	1048.6
5°	1044.4	1050.3	1041.8	1045.2	1044.4
7.5°	1041.0	1039.3	1036.8	1042.7	1046.0
10°	1040.1	1031.7	1028.3	1034.2	1035.1
12.5°	1024.1	1026.7	1019.9	1021.6	1018.2
15°	1009.8	1011.5	1008.1	1009.8	1012.3
17.5°	1001.4	996.3	993.8	997.2	1000.5
20°	983.7	984.5	976.1	980.3	976.1
22.5°	966.0	966.8	961.7	961.7	960.1
25°	953.3	944.0	942.4	943.2	945.7
27.5°	930.6	927.2	917.1	920.4	918.8
30°	902.7	906.1	899.4	892.6	891.8
32.5°	884.2	878.3	874.9	872.4	876.6
35°	863.1	853.0	844.6	845.4	845.4
37.5°	829.4	828.6	819.3	815.1	812.6
40°	802.4	799.1	793.2	787.3	788.1
42.5°	779.7	768.7	759.5	757.8	762.0
45°	744.3	740.1	726.6	727.4	724.1
47.5°	708.9	708.0	699.6	692.9	692.0
50°	681.1	672.6	662.5	660.8	665.0
52.5°	644.8	640.6	626.3	626.3	626.3
55°	603.5	600.1	592.6	586.7	586.7
57.5°	569.0	562.2	552.9	548.7	548.7
60°	531.9	521.8	506.6	508.3	510.8
62.5°	483.0	477.9	464.4	462.8	467.8
65°	438.3	435.8	421.4	423.1	424.8
67.5°	398.7	387.7	371.7	377.6	374.2
70°	347.3	341.4	330.4	318.6	307.7
72.5°	295.9	292.5	286.6	257.9	247.8
75°	250.3	241.1	227.6	204.0	193.0
77.5°	196.4	193.9	174.5	155.9	157.6
80°	146.7	148.4	126.4	134.0	137.4
82.5°	96.1	99.5	103.7	108.7	106.2
85°	53.9	59.8	68.3	68.3	69.1
87.5°	19.4	28.7	30.3	30.3	30.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)