

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: P393118

Luminaire Tested: **14EN-LD2-38-UNV-L93050-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393118
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-L93050-W2A-1-U (4500K)
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: 3313.2 lumens
Efficiency: N/A
Efficacy: 91.8 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

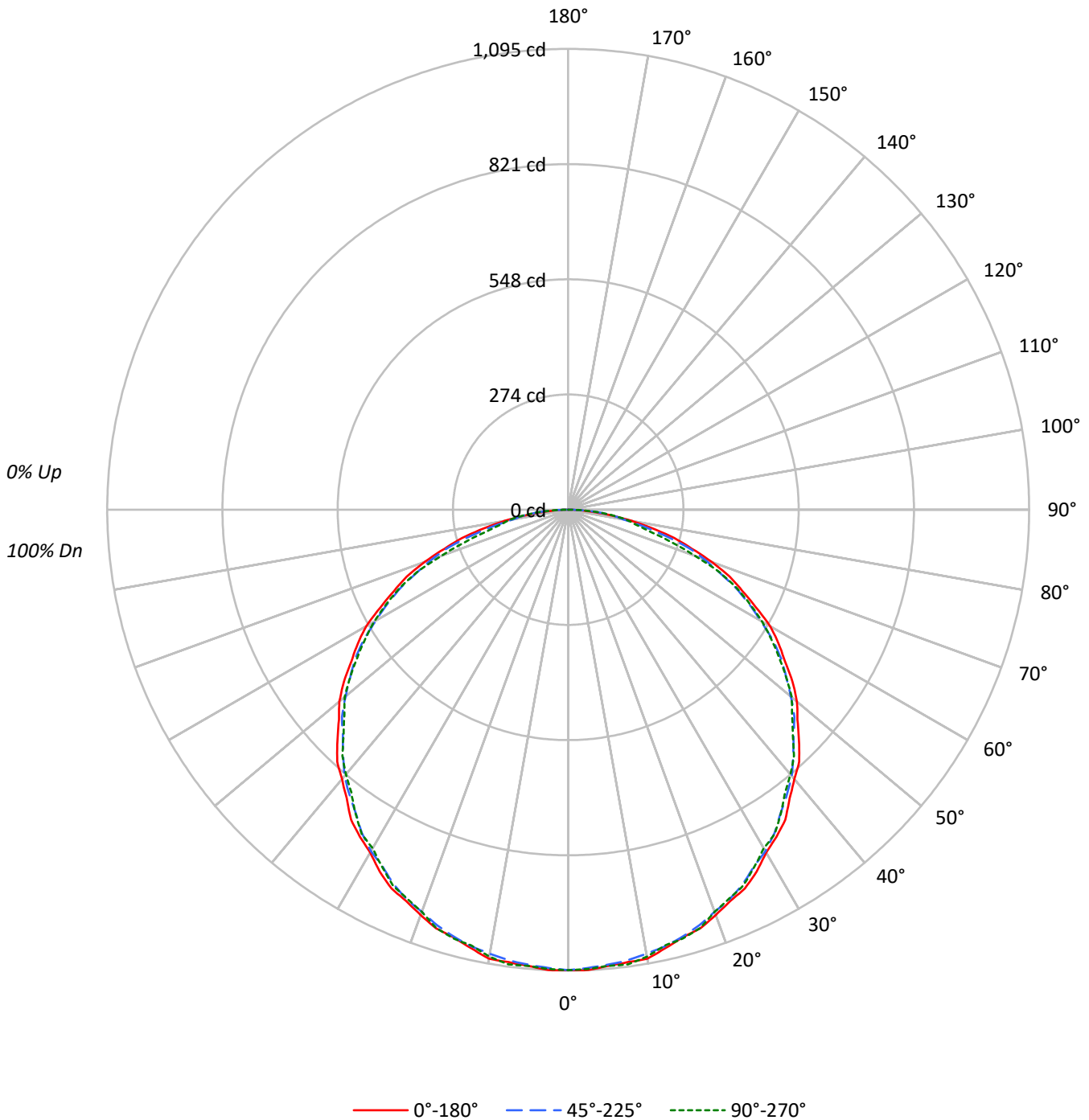
Input Watts (W): 36.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2944	2944	2944
5°	2939	2932	2939
10°	2961	2927	2946
15°	2930	2926	2938
20°	2934	2912	2912
25°	2949	2915	2925
30°	2922	2911	2887
35°	2954	2890	2893
40°	2936	2903	2884
45°	2950	2880	2871
50°	2970	2889	2900
55°	2950	2896	2867
60°	2982	2840	2864
65°	2907	2795	2818
70°	2847	2708	2522
75°	2712	2465	2091
80°	2368	2041	2218
85°	1735	2195	2223



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.6	3.1
10°-20°	297.2	9.0
20°-30°	453.3	13.7
30°-40°	553.8	16.7
40°-50°	589.0	17.8
50°-60°	552.9	16.7
60°-70°	438.5	13.2
70°-80°	249.8	7.5
80°-90°	75.1	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°	854.1	25.8
0°-40°	1407.8	42.5
0°-60°	2549.7	77.0
0°-90°	3313.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3313.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1094	1094	1094	1094	1094	
5°	1088	1094	1085	1089	1088	104
15°	1052	1054	1050	1052	1055	298
25°	993	984	982	983	985	456
35°	899	889	880	881	881	560
45°	775	771	757	758	754	599
55°	629	625	617	611	611	565
65°	457	454	439	441	443	454
75°	261	251	237	212	201	272
85°	56	62	71	71	72	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1094.1	1094.1	1094.1	1094.1	1094.1
2.5°	1095.0	1094.1	1089.7	1095.0	1092.3
5°	1087.9	1094.1	1085.3	1088.8	1087.9
7.5°	1084.4	1082.7	1080.0	1086.2	1089.7
10°	1083.6	1074.8	1071.3	1077.4	1078.3
12.5°	1066.9	1069.5	1062.5	1064.2	1060.7
15°	1051.9	1053.7	1050.2	1051.9	1054.6
17.5°	1043.2	1037.9	1035.3	1038.8	1042.3
20°	1024.7	1025.6	1016.8	1021.2	1016.8
22.5°	1006.3	1007.2	1001.9	1001.9	1000.1
25°	993.1	983.5	981.7	982.6	985.2
27.5°	969.4	965.9	955.4	958.9	957.1
30°	940.4	943.9	936.9	929.9	929.0
32.5°	921.1	915.0	911.5	908.8	913.2
35°	899.2	888.6	879.8	880.7	880.7
37.5°	864.0	863.2	853.5	849.1	846.5
40°	835.9	832.4	826.3	820.1	821.0
42.5°	812.2	800.8	791.2	789.4	793.8
45°	775.3	771.0	756.9	757.8	754.3
47.5°	738.5	737.6	728.8	721.8	720.9
50°	709.5	700.7	690.2	688.4	692.8
52.5°	671.7	667.3	652.4	652.4	652.4
55°	628.7	625.2	617.3	611.1	611.1
57.5°	592.7	585.7	576.0	571.6	571.6
60°	554.1	543.5	527.7	529.5	532.1
62.5°	503.1	497.9	483.8	482.1	487.3
65°	456.6	454.0	439.0	440.8	442.6
67.5°	415.3	403.9	387.2	393.4	389.9
70°	361.8	355.6	344.2	331.9	320.5
72.5°	308.2	304.7	298.5	268.7	258.2
75°	260.8	251.1	237.1	212.5	201.1
77.5°	204.6	202.0	181.8	162.4	164.2
80°	152.8	154.5	131.7	139.6	143.1
82.5°	100.1	103.6	108.0	113.3	110.6
85°	56.2	62.3	71.1	71.1	72.0
87.5°	20.2	29.9	31.6	31.6	31.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)