

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: P393395

Luminaire Tested: **22EN-LD2-43-UNV-L92765-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393395
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22EN-LD2-43-UNV-L92765-W2A-1-U (3000K)
Description: 2X2 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: 3326.5 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

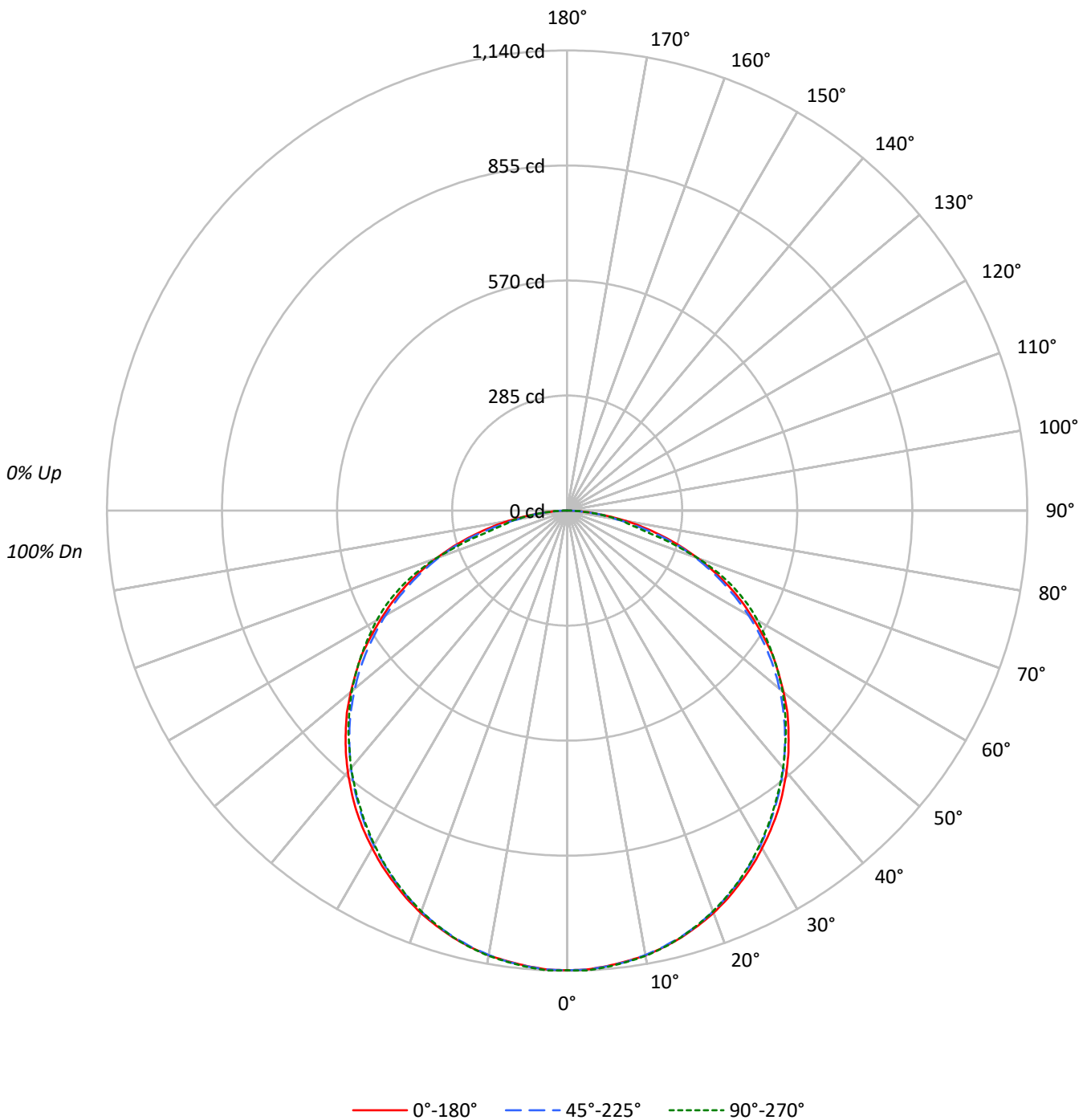
Input Watts (W): 32.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83					83			
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33					33			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3064	3064	3064
5°	3059	3062	3066
10°	3057	3055	3061
15°	3050	3043	3048
20°	3037	3026	3026
25°	3018	3002	3000
30°	3002	2976	2968
35°	2988	2950	2940
40°	2970	2926	2923
45°	2952	2902	2917
50°	2930	2875	2917
55°	2909	2840	2916
60°	2854	2796	2933
65°	2805	2731	2923
70°	2704	2644	2710
75°	2551	2414	2101
80°	2292	1920	2064
85°	1698	1744	1673



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.7	3.2
10°-20°	308.4	9.3
20°-30°	466.4	14.0
30°-40°	563.2	16.9
40°-50°	591.3	17.8
50°-60°	547.5	16.5
60°-70°	433.2	13.0
70°-80°	243.6	7.3
80°-90°	65.2	2.0
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°	882.5	26.5
0°-40°	1445.7	43.5
0°-60°	2584.5	77.7
0°-90°	3326.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3326.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1139	1139	1139	1139	1139	
5°	1133	1132	1133	1133	1135	108
15°	1095	1093	1092	1092	1094	309
25°	1016	1015	1011	1010	1010	469
35°	910	906	898	893	895	569
45°	776	772	762	760	766	599
55°	620	614	605	611	622	552
65°	440	435	429	445	459	435
75°	245	242	232	212	202	259
85°	55	53	56	53	54	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1138.8	1138.8	1138.8	1138.8	1138.8
2.5°	1138.0	1137.2	1138.0	1138.0	1140.3
5°	1132.6	1131.8	1133.4	1133.4	1134.9
7.5°	1126.4	1125.6	1127.2	1127.2	1127.9
10°	1118.7	1117.1	1117.9	1118.7	1120.2
12.5°	1107.8	1106.3	1106.3	1107.0	1108.6
15°	1094.7	1093.1	1092.3	1092.3	1093.9
17.5°	1078.4	1076.1	1076.1	1074.5	1076.1
20°	1060.6	1058.3	1056.7	1055.2	1056.7
22.5°	1039.7	1037.4	1035.0	1033.5	1034.3
25°	1016.5	1014.9	1011.0	1009.5	1010.3
27.5°	992.5	990.1	985.5	982.4	983.9
30°	966.1	963.0	957.6	953.8	955.3
32.5°	938.3	935.2	929.0	924.3	925.9
35°	909.6	905.8	898.0	893.4	894.9
37.5°	877.9	874.8	866.3	861.6	864.0
40°	845.4	842.3	833.0	829.1	832.2
42.5°	811.3	808.2	798.2	794.3	798.9
45°	775.7	771.8	762.5	760.2	766.4
47.5°	740.1	734.7	725.4	723.8	731.6
50°	699.8	696.0	686.7	687.4	696.7
52.5°	659.6	656.5	647.2	650.3	658.8
55°	620.1	613.9	605.4	610.8	621.6
57.5°	574.4	570.6	562.8	571.3	582.9
60°	530.3	527.2	519.5	530.3	545.0
62.5°	486.9	480.7	473.8	489.3	504.7
65°	440.5	435.1	428.9	445.1	459.1
67.5°	392.5	387.1	382.4	397.1	407.2
70°	343.7	339.1	336.0	340.6	344.5
72.5°	295.0	290.3	288.0	277.1	274.1
75°	245.4	241.5	232.2	212.1	202.1
77.5°	195.9	191.2	175.7	156.4	157.2
80°	147.9	142.4	123.9	129.3	133.2
82.5°	100.6	96.8	92.9	91.4	92.1
85°	55.0	53.4	56.5	53.4	54.2
87.5°	22.5	23.2	24.8	24.0	24.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)