

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: P393397

Luminaire Tested: **22EN-LD2-43-UNV-L92765-W2A-1-U (4000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393397
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 (4000K)
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: 3553.7 lumens
Efficiency: N/A
Efficacy: 108.7 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

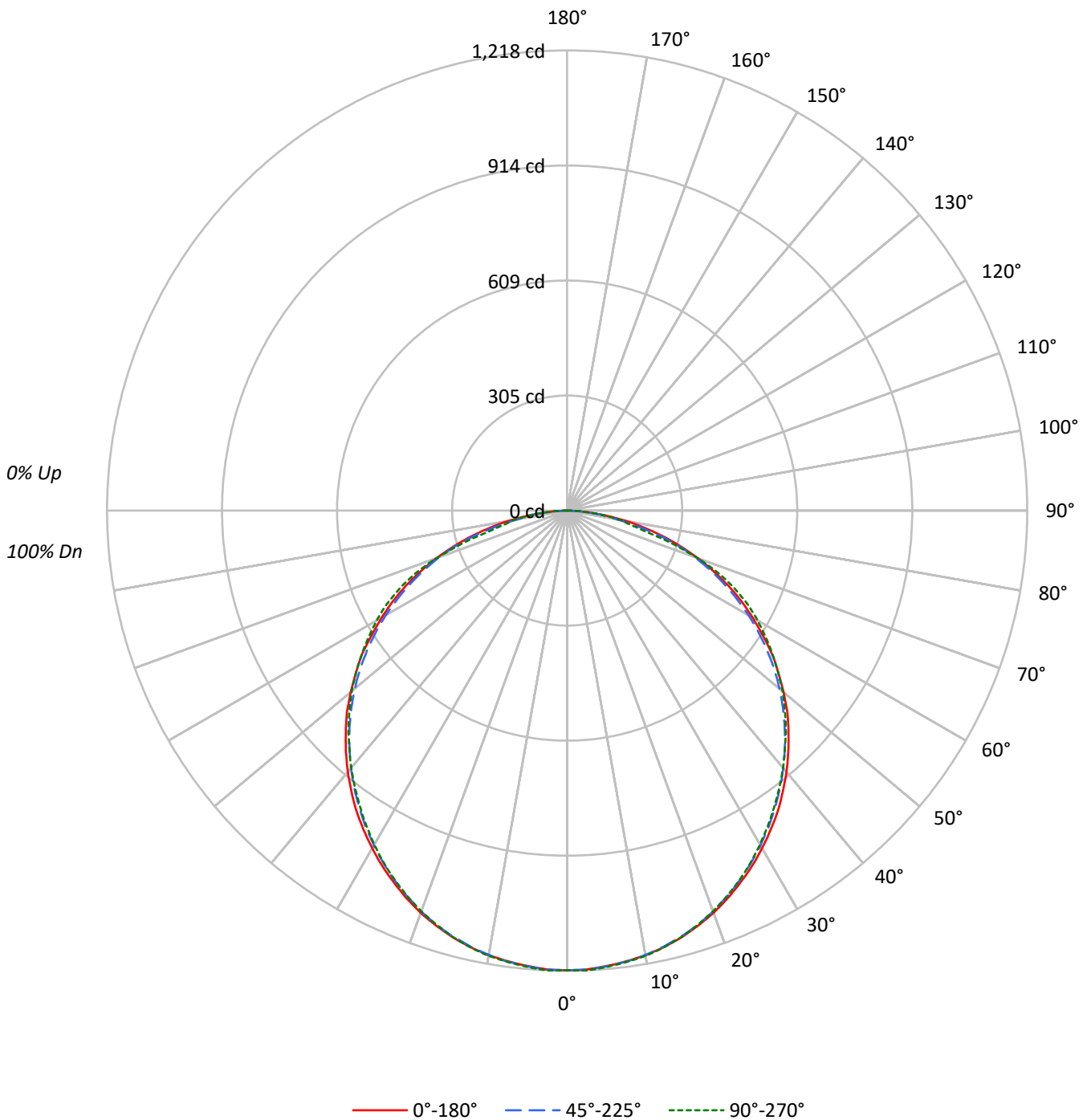
Input Watts (W): 32.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3274	3274	3274
5°	3269	3271	3275
10°	3266	3263	3270
15°	3258	3251	3256
20°	3245	3233	3233
25°	3224	3207	3205
30°	3207	3179	3171
35°	3192	3152	3141
40°	3172	3126	3123
45°	3154	3100	3116
50°	3130	3071	3116
55°	3108	3034	3116
60°	3049	2986	3133
65°	2996	2918	3123
70°	2889	2824	2895
75°	2726	2580	2245
80°	2448	2050	2205
85°	1812	1865	1788



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.1	3.2
10°-20°	329.4	9.3
20°-30°	498.3	14.0
30°-40°	601.7	16.9
40°-50°	631.7	17.8
50°-60°	584.9	16.5
60°-70°	462.8	13.0
70°-80°	260.3	7.3
80°-90°	69.6	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°	942.8	26.5
0°-40°	1544.5	43.5
0°-60°	2761.0	77.7
0°-90°	3553.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3553.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1217	1217	1217	1217	1217	
5°	1210	1209	1211	1211	1212	115
15°	1169	1168	1167	1167	1169	330
25°	1086	1084	1080	1078	1079	501
35°	972	968	959	954	956	608
45°	829	825	815	812	819	639
55°	662	656	647	652	664	590
65°	471	465	458	476	490	465
75°	262	258	248	227	216	277
85°	59	57	60	57	58	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1216.6	1216.6	1216.6	1216.6	1216.6
2.5°	1215.7	1214.9	1215.7	1215.7	1218.2
5°	1210.0	1209.1	1210.8	1210.8	1212.4
7.5°	1203.3	1202.5	1204.2	1204.2	1205.0
10°	1195.1	1193.4	1194.2	1195.1	1196.7
12.5°	1183.5	1181.8	1181.8	1182.7	1184.3
15°	1169.4	1167.8	1166.9	1166.9	1168.6
17.5°	1152.1	1149.6	1149.6	1147.9	1149.6
20°	1133.0	1130.6	1128.9	1127.3	1128.9
22.5°	1110.7	1108.2	1105.7	1104.1	1104.9
25°	1085.9	1084.2	1080.1	1078.5	1079.3
27.5°	1060.3	1057.8	1052.8	1049.5	1051.2
30°	1032.1	1028.8	1023.0	1018.9	1020.6
32.5°	1002.4	999.1	992.4	987.5	989.1
35°	971.8	967.6	959.4	954.4	956.1
37.5°	937.9	934.6	925.5	920.5	923.0
40°	903.1	899.8	889.9	885.8	889.1
42.5°	866.7	863.4	852.7	848.5	853.5
45°	828.7	824.6	814.6	812.2	818.8
47.5°	790.6	784.9	774.9	773.3	781.5
50°	747.6	743.5	733.6	734.4	744.3
52.5°	704.6	701.3	691.4	694.7	703.8
55°	662.5	655.8	646.7	652.5	664.1
57.5°	613.7	609.5	601.3	610.4	622.8
60°	566.5	563.2	554.9	566.5	582.2
62.5°	520.2	513.6	506.1	522.7	539.2
65°	470.6	464.8	458.2	475.5	490.4
67.5°	419.3	413.5	408.6	424.3	435.0
70°	367.2	362.2	358.9	363.9	368.0
72.5°	315.1	310.1	307.7	296.1	292.8
75°	262.2	258.0	248.1	226.6	215.9
77.5°	209.2	204.3	187.7	167.1	167.9
80°	158.0	152.2	132.3	138.1	142.3
82.5°	107.5	103.4	99.2	97.6	98.4
85°	58.7	57.1	60.4	57.1	57.9
87.5°	24.0	24.8	26.5	25.6	25.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)