

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: P393285

Luminaire Tested: **22EN-LD2-30-UNV-L82765-W2A-1-U (4000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393285  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22EN-LD2-30-UNV-L82765-W2A-1-U (4000K)  
Description: 2X2 ENCOUNTER, 3000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2801.9 lumens  
Efficiency: N/A  
Efficacy: 127.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

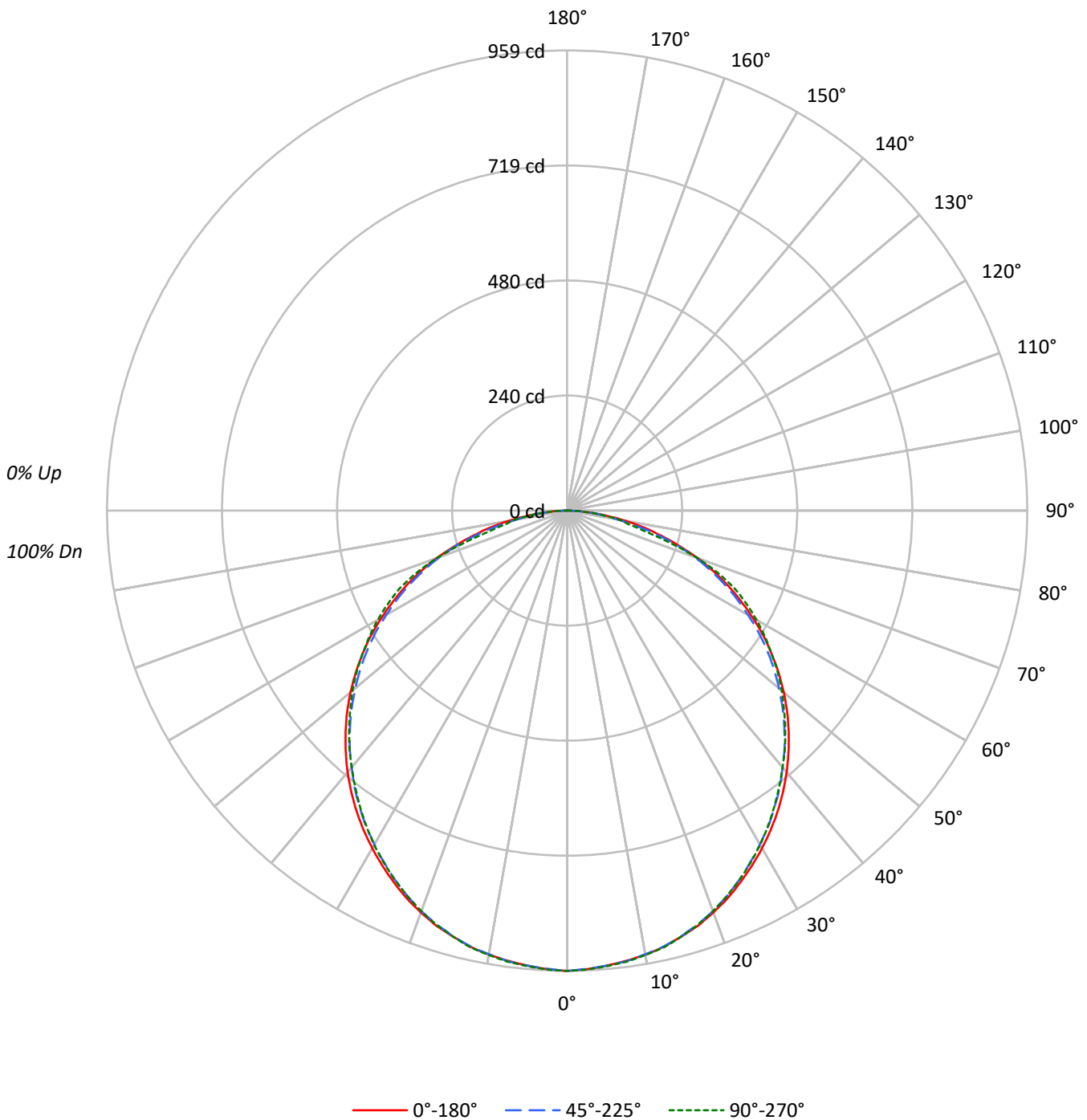
Input Watts (W): 21.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	36	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°	2582	2582	2582
5°	2571	2571	2574
10°	2568	2565	2570
15°	2561	2558	2561
20°	2552	2544	2544
25°	2538	2521	2521
30°	2525	2496	2499
35°	2513	2477	2473
40°	2500	2454	2454
45°	2485	2435	2446
50°	2467	2413	2444
55°	2441	2388	2441
60°	2403	2343	2454
65°	2355	2296	2457
70°	2271	2220	2271
75°	2117	2020	1748
80°	1925	1636	1723
85°	1414	1442	1383



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.7	3.2
10°-20°	259.9	9.3
20°-30°	392.9	14.0
30°-40°	474.6	16.9
40°-50°	498.2	17.8
50°-60°	461.3	16.5
60°-70°	364.8	13.0
70°-80°	204.6	7.3
80°-90°	54.9	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°	743.5	26.5
0°-40°	1218.1	43.5
0°-60°	2177.6	77.7
0°-90°	2801.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2801.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	959	959	959	959	959	
5°	952	961	952	953	953	90
15°	919	928	918	917	919	260
25°	855	862	849	846	849	394
35°	765	771	754	750	753	479
45°	653	657	640	637	643	504
55°	520	521	509	514	520	465
65°	370	370	361	373	386	365
75°	204	205	194	176	168	216
85°	46	46	47	46	45	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	959.4	959.4	959.4	959.4	959.4
2.5°	956.6	965.0	955.6	956.6	957.5
5°	951.9	961.2	951.9	952.8	952.8
7.5°	946.3	955.6	947.2	946.3	948.2
10°	939.8	949.1	938.8	939.8	940.7
12.5°	931.3	939.8	930.4	930.4	932.3
15°	919.2	928.5	918.3	917.3	919.2
17.5°	907.1	914.5	904.3	903.3	905.2
20°	891.2	899.6	888.4	886.5	888.4
22.5°	874.4	881.8	869.7	867.8	869.7
25°	854.7	862.2	849.1	846.3	849.1
27.5°	834.2	840.7	826.7	823.9	827.7
30°	812.7	819.2	803.4	800.6	804.3
32.5°	789.4	795.0	780.0	775.3	779.1
35°	765.1	770.7	753.9	750.1	752.9
37.5°	738.9	744.5	727.7	724.0	725.8
40°	711.8	716.5	698.7	695.0	698.7
42.5°	682.9	687.5	670.7	667.9	671.7
45°	653.0	656.7	639.9	637.1	642.7
47.5°	622.1	625.9	609.1	608.1	612.8
50°	589.4	592.2	576.4	577.3	583.8
52.5°	555.8	556.8	543.7	546.5	553.0
55°	520.3	521.3	509.1	513.8	520.3
57.5°	484.8	485.8	473.6	479.2	488.6
60°	446.5	447.5	435.3	445.6	455.9
62.5°	408.2	409.2	398.9	410.1	421.3
65°	369.9	369.9	360.6	372.7	385.8
67.5°	329.8	329.8	321.3	333.5	341.0
70°	288.7	289.6	282.1	284.9	288.7
72.5°	245.7	247.5	241.0	230.7	227.9
75°	203.6	204.6	194.3	175.6	168.1
77.5°	164.4	162.5	147.6	130.8	130.8
80°	124.2	122.4	105.6	108.4	111.2
82.5°	83.1	83.1	77.5	76.6	76.6
85°	45.8	45.8	46.7	45.8	44.8
87.5°	19.6	19.6	20.6	20.6	18.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)