

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: P393286

Luminaire Tested: **22EN-LD2-30-UNV-L82765-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393286
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 (4500K)
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: 2885.0 lumens
Efficiency: N/A
Efficacy: 132.3 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

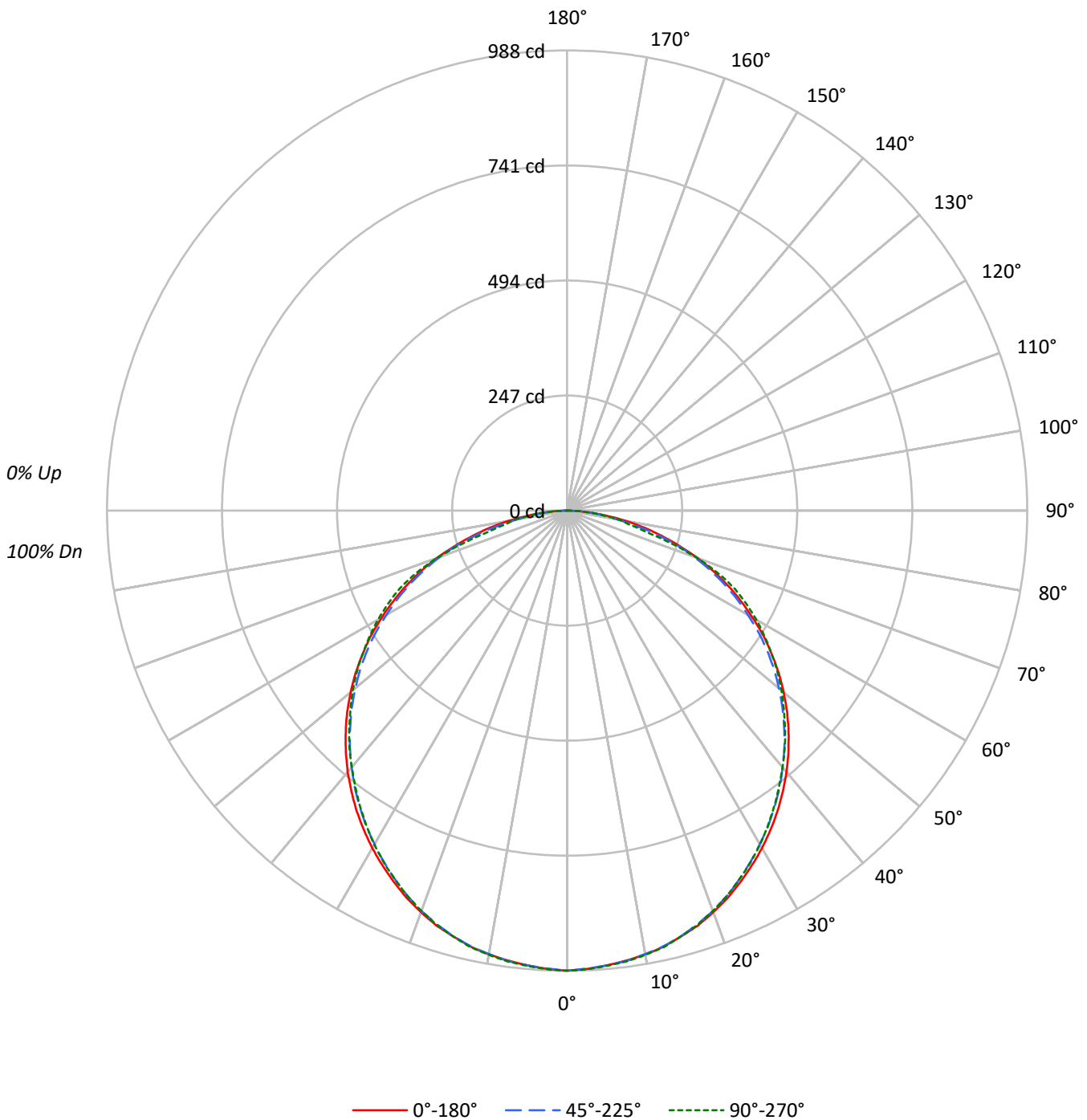
Input Watts (W): 21.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2658	2658	2658
5°	2648	2648	2650
10°	2644	2641	2647
15°	2637	2634	2637
20°	2628	2619	2619
25°	2613	2596	2596
30°	2600	2570	2573
35°	2588	2550	2547
40°	2575	2527	2527
45°	2559	2508	2518
50°	2541	2484	2516
55°	2513	2459	2513
60°	2475	2412	2526
65°	2425	2364	2529
70°	2338	2286	2338
75°	2180	2080	1800
80°	1982	1684	1774
85°	1454	1485	1426



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.4	3.2
10°-20°	267.6	9.3
20°-30°	404.6	14.0
30°-40°	488.7	16.9
40°-50°	513.0	17.8
50°-60°	474.9	16.5
60°-70°	375.6	13.0
70°-80°	210.7	7.3
80°-90°	56.5	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°	765.5	26.5
0°-40°	1254.2	43.5
0°-60°	2242.1	77.7
0°-90°	2885.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2885.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	988	988	988	988	988	
5°	980	990	980	981	981	93
15°	946	956	946	944	946	267
25°	880	888	874	871	874	406
35°	788	794	776	772	775	493
45°	672	676	659	656	662	519
55°	536	537	524	529	536	479
65°	381	381	371	384	397	376
75°	210	211	200	181	173	223
85°	47	47	48	47	46	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	987.8	987.8	987.8	987.8	987.8
2.5°	984.9	993.6	984.0	984.9	985.9
5°	980.1	989.7	980.1	981.1	981.1
7.5°	974.3	984.0	975.3	974.3	976.3
10°	967.6	977.2	966.6	967.6	968.6
12.5°	958.9	967.6	958.0	958.0	959.9
15°	946.4	956.1	945.5	944.5	946.4
17.5°	933.9	941.6	931.1	930.1	932.0
20°	917.6	926.2	914.7	912.8	914.7
22.5°	900.3	908.0	895.5	893.5	895.5
25°	880.1	887.8	874.3	871.4	874.3
27.5°	858.9	865.6	851.2	848.3	852.2
30°	836.8	843.5	827.2	824.3	828.1
32.5°	812.7	818.5	803.1	798.3	802.2
35°	787.7	793.5	776.2	772.4	775.2
37.5°	760.8	766.6	749.3	745.4	747.3
40°	732.9	737.7	719.4	715.6	719.4
42.5°	703.1	707.9	690.6	687.7	691.6
45°	672.3	676.2	658.9	656.0	661.7
47.5°	640.6	644.4	627.1	626.2	631.0
50°	606.9	609.8	593.4	594.4	601.1
52.5°	572.3	573.3	559.8	562.7	569.4
55°	535.7	536.7	524.2	529.0	535.7
57.5°	499.2	500.2	487.6	493.4	503.0
60°	459.8	460.7	448.2	458.8	469.4
62.5°	420.3	421.3	410.7	422.2	433.8
65°	380.9	380.9	371.3	383.8	397.2
67.5°	339.5	339.5	330.9	343.4	351.1
70°	297.2	298.2	290.5	293.4	297.2
72.5°	253.0	254.9	248.2	237.6	234.7
75°	209.7	210.6	200.1	180.8	173.1
77.5°	169.3	167.4	152.0	134.7	134.7
80°	127.9	126.0	108.7	111.6	114.5
82.5°	85.6	85.6	79.8	78.9	78.9
85°	47.1	47.1	48.1	47.1	46.2
87.5°	20.2	20.2	21.2	21.2	19.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)