

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: P393428

Luminaire Tested: **24EN-LD2-30-UNV-L92765-W2A-1-U (3500K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393428  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-31)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24EN-LD2-30-UNV-L92765-W2A-1-U (3500K)  
Description: 2X4 ENCOUNTER, 3000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2419.4 lumens  
Efficiency: N/A  
Efficacy: 116.3 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.4  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

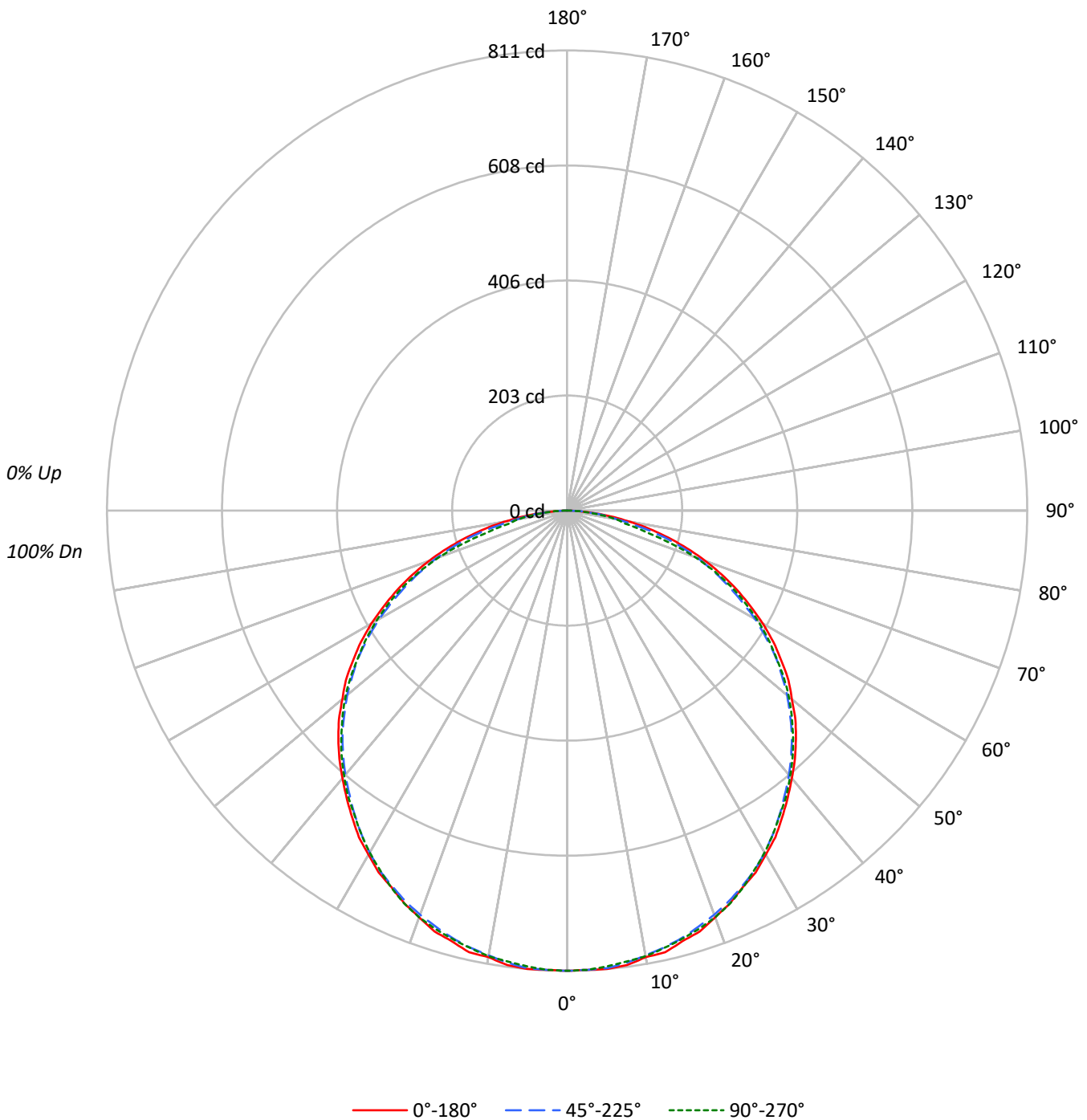
Input Watts (W): 20.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	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	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	36	29	25	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1091	1091	1091
5°	1095	1093	1089
10°	1092	1087	1090
15°	1094	1087	1089
20°	1092	1085	1092
25°	1088	1084	1089
30°	1088	1081	1081
35°	1085	1073	1075
40°	1082	1068	1074
45°	1085	1065	1071
50°	1082	1059	1068
55°	1081	1051	1053
60°	1072	1029	1044
65°	1051	996	1021
70°	1019	966	944
75°	959	889	729
80°	853	693	675
85°	696	624	562



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.9	3.2
10°-20°	220.5	9.1
20°-30°	336.9	13.9
30°-40°	410.7	17.0
40°-50°	433.5	17.9
50°-60°	402.5	16.6
60°-70°	315.2	13.0
70°-80°	176.2	7.3
80°-90°	46.9	1.9
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°	634.3	26.2
0°-40°	1045.1	43.2
0°-60°	1881.1	77.7
0°-90°	2419.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2419.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	811	811	811	811	811	
5°	811	810	809	809	806	77
15°	786	781	780	779	782	222
25°	733	732	730	728	733	338
35°	660	658	653	656	654	413
45°	570	564	560	557	563	440
55°	461	455	448	446	449	412
65°	330	323	313	316	321	326
75°	184	179	171	146	140	195
85°	45	40	40	38	36	52
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	811.0	811.0	811.0	811.0	811.0
2.5°	810.2	811.8	810.2	808.6	810.2
5°	811.0	810.2	809.4	809.4	806.2
7.5°	807.8	806.2	803.8	804.6	801.5
10°	799.1	799.1	795.9	798.3	797.5
12.5°	797.5	789.6	788.8	789.6	789.6
15°	785.6	780.9	780.1	779.3	781.7
17.5°	777.7	769.8	769.0	767.4	772.9
20°	762.7	757.9	757.9	755.5	762.7
22.5°	749.2	744.4	745.2	742.1	750.0
25°	732.6	731.8	730.2	727.8	733.3
27.5°	719.1	715.9	715.1	712.8	714.3
30°	700.1	699.3	696.1	695.3	696.1
32.5°	682.7	680.3	675.5	676.3	675.5
35°	660.5	658.1	653.4	655.7	654.2
37.5°	638.3	635.9	630.4	632.8	634.4
40°	616.1	613.0	608.2	610.6	611.4
42.5°	594.0	588.4	584.5	582.9	588.4
45°	570.2	563.9	559.9	556.7	563.1
47.5°	545.7	538.5	533.0	531.4	536.9
50°	517.1	511.6	506.1	503.7	510.0
52.5°	491.8	483.1	476.8	475.2	480.7
55°	460.9	454.6	448.2	445.9	449.0
57.5°	430.8	423.7	415.0	415.0	419.7
60°	398.4	391.2	382.5	383.3	388.1
62.5°	363.5	358.8	346.9	350.0	354.8
65°	330.2	323.1	312.8	316.0	320.7
67.5°	294.6	288.3	278.8	279.6	281.9
70°	259.0	251.0	245.5	240.0	240.0
72.5°	221.7	215.4	209.1	194.0	190.9
75°	184.5	179.0	171.1	146.5	140.2
77.5°	148.1	144.1	129.1	106.1	103.7
80°	110.1	109.3	89.5	87.1	87.1
82.5°	76.0	72.9	68.1	63.4	61.0
85°	45.1	40.4	40.4	38.0	36.4
87.5°	14.3	16.6	16.6	16.6	16.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)