

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: P393429

Luminaire Tested: **24EN-LD2-30-UNV-L92765-W2A-1-U (4000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393429
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 (4000K)
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: 2526.6 lumens
Efficiency: N/A
Efficacy: 121.5 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

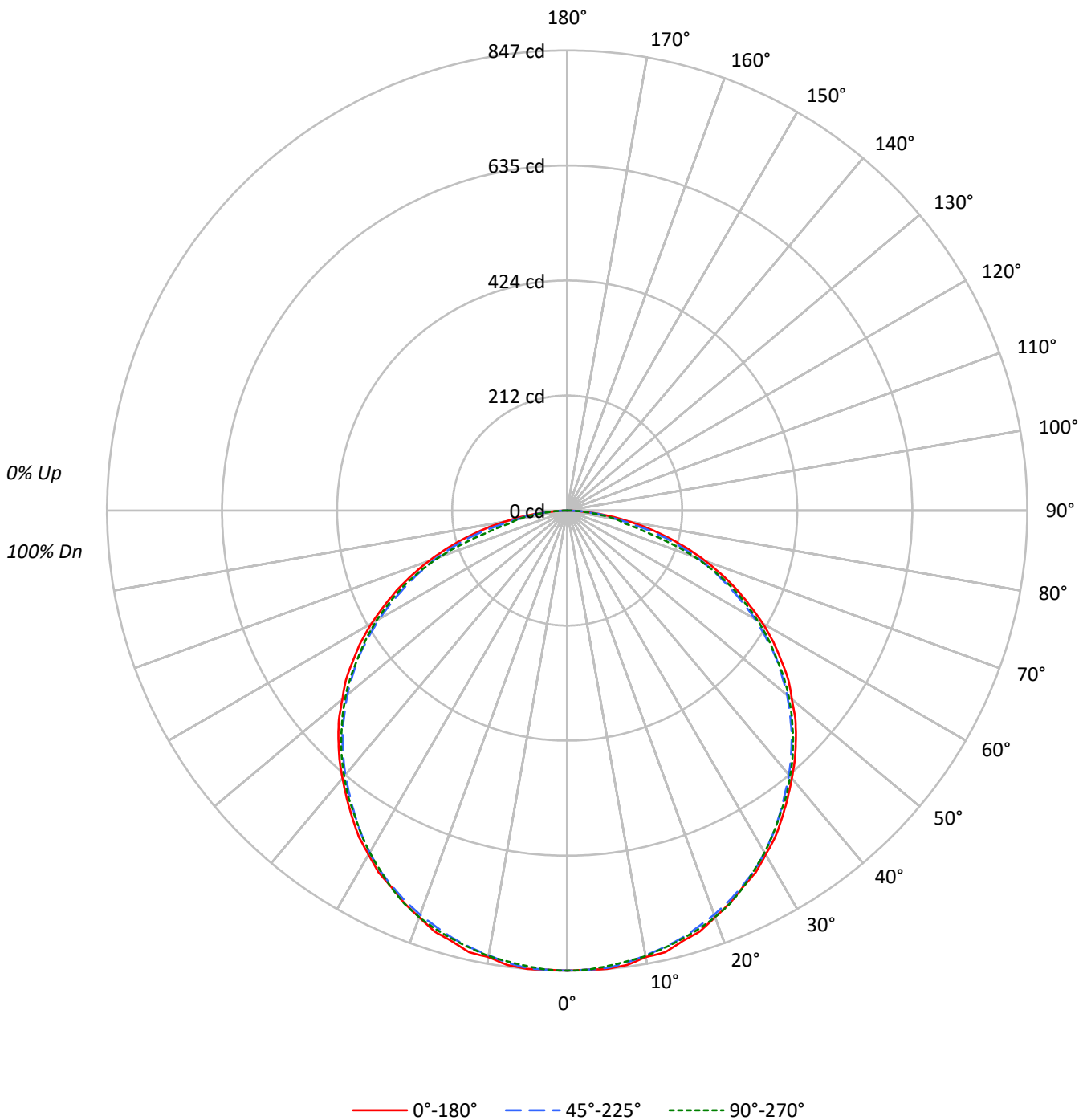
Input Watts (W): 20.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1139	1139	1139
5°	1144	1142	1137
10°	1140	1136	1138
15°	1143	1135	1137
20°	1140	1133	1140
25°	1136	1132	1137
30°	1136	1129	1129
35°	1133	1121	1122
40°	1130	1116	1121
45°	1133	1113	1119
50°	1131	1106	1115
55°	1129	1098	1100
60°	1119	1075	1090
65°	1098	1040	1067
70°	1064	1009	986
75°	1002	928	761
80°	891	724	705
85°	727	651	587



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.3	3.2
10°-20°	230.3	9.1
20°-30°	351.9	13.9
30°-40°	428.9	17.0
40°-50°	452.7	17.9
50°-60°	420.3	16.6
60°-70°	329.2	13.0
70°-80°	184.0	7.3
80°-90°	49.0	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°	662.4	26.2
0°-40°	1091.4	43.2
0°-60°	1964.4	77.7
0°-90°	2526.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2526.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	847	847	847	847	847	
5°	847	846	845	845	842	80
15°	820	816	815	814	816	232
25°	765	764	762	760	766	353
35°	690	687	682	685	683	432
45°	596	589	585	581	588	459
55°	481	475	468	466	469	430
65°	345	337	327	330	335	340
75°	193	187	179	153	146	203
85°	47	42	42	40	38	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	846.9	846.9	846.9	846.9	846.9
2.5°	846.1	847.7	846.1	844.4	846.1
5°	846.9	846.1	845.2	845.2	841.9
7.5°	843.6	841.9	839.4	840.3	837.0
10°	834.5	834.5	831.2	833.7	832.8
12.5°	832.8	824.6	823.7	824.6	824.6
15°	820.4	815.5	814.6	813.8	816.3
17.5°	812.2	803.9	803.1	801.4	807.2
20°	796.4	791.5	791.5	789.0	796.4
22.5°	782.4	777.4	778.2	774.9	783.2
25°	765.0	764.2	762.5	760.0	765.8
27.5°	751.0	747.6	746.8	744.3	746.0
30°	731.1	730.3	727.0	726.1	727.0
32.5°	712.9	710.4	705.5	706.3	705.5
35°	689.7	687.3	682.3	684.8	683.1
37.5°	666.6	664.1	658.3	660.8	662.5
40°	643.4	640.1	635.2	637.6	638.5
42.5°	620.3	614.5	610.4	608.7	614.5
45°	595.5	588.9	584.7	581.4	588.0
47.5°	569.8	562.4	556.6	554.9	560.7
50°	540.1	534.3	528.5	526.0	532.6
52.5°	513.6	504.5	497.9	496.2	502.0
55°	481.3	474.7	468.1	465.6	468.9
57.5°	449.9	442.5	433.4	433.4	438.3
60°	416.0	408.6	399.5	400.3	405.2
62.5°	379.6	374.6	362.2	365.6	370.5
65°	344.9	337.4	326.7	330.0	335.0
67.5°	307.7	301.0	291.1	291.9	294.4
70°	270.4	262.2	256.4	250.6	250.6
72.5°	231.6	225.0	218.3	202.6	199.3
75°	192.7	186.9	178.6	153.0	146.4
77.5°	154.7	150.5	134.8	110.8	108.3
80°	115.0	114.1	93.5	91.0	91.0
82.5°	79.4	76.1	71.1	66.2	63.7
85°	47.1	42.2	42.2	39.7	38.0
87.5°	14.9	17.4	17.4	17.4	17.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)