

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: P393435

Luminaire Tested: **24EN-LD2-30-UNV-L93050-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393435
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-L93050-W2A-1-U (3000K)
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: 2510.4 lumens
Efficiency: N/A
Efficacy: 120.1 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

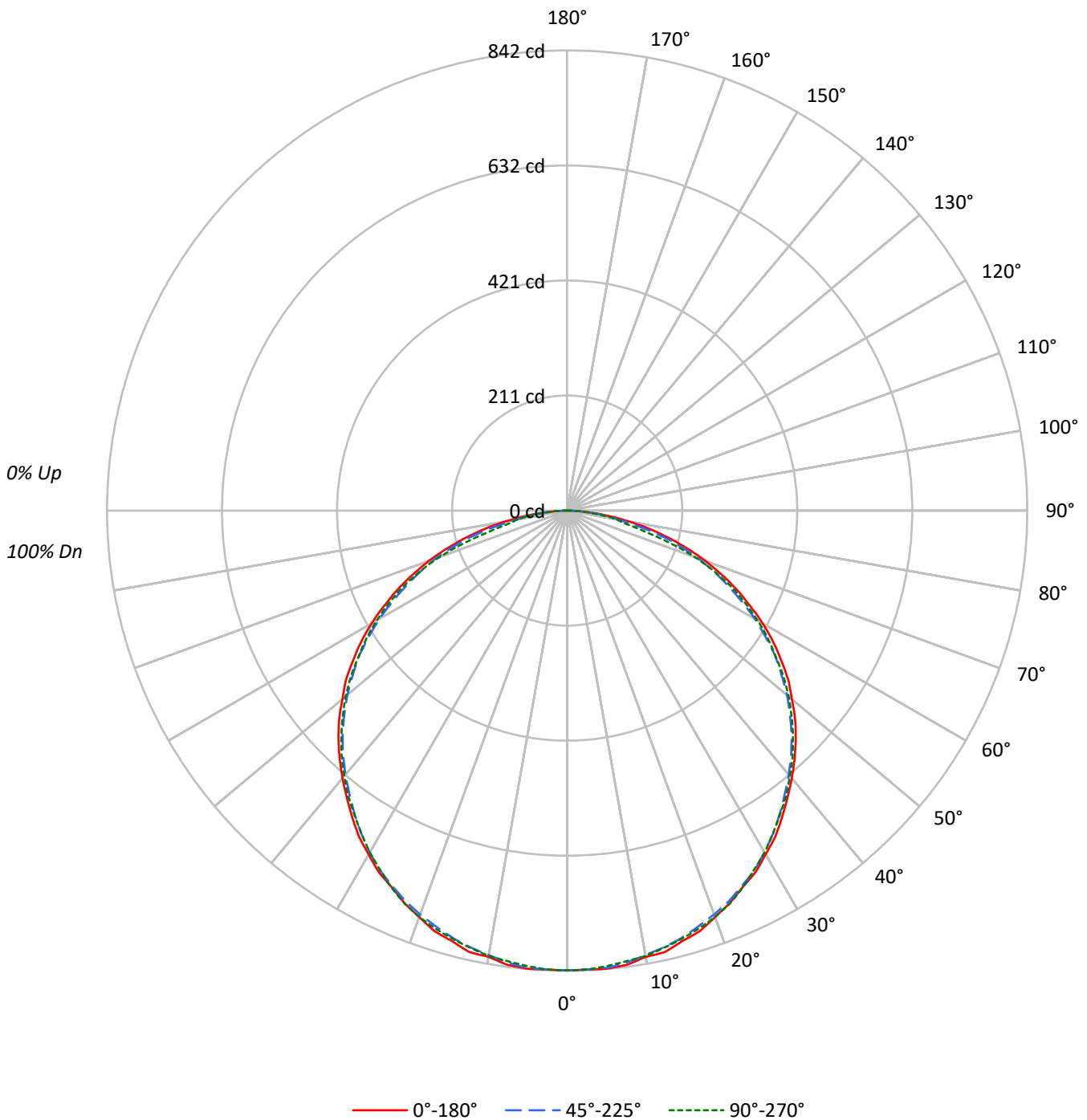
Input Watts (W): 20.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1132	1132	1132
5°	1137	1134	1130
10°	1133	1128	1131
15°	1136	1127	1130
20°	1133	1126	1133
25°	1128	1125	1130
30°	1129	1122	1122
35°	1126	1113	1115
40°	1123	1108	1114
45°	1126	1106	1112
50°	1123	1099	1108
55°	1122	1091	1093
60°	1112	1068	1084
65°	1091	1033	1060
70°	1057	1002	980
75°	996	923	756
80°	885	720	700
85°	722	647	584



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.8	3.2
10°-20°	228.8	9.1
20°-30°	349.6	13.9
30°-40°	426.2	17.0
40°-50°	449.8	17.9
50°-60°	417.6	16.6
60°-70°	327.1	13.0
70°-80°	182.8	7.3
80°-90°	48.7	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°	658.2	26.2
0°-40°	1084.4	43.2
0°-60°	1951.8	77.7
0°-90°	2510.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2510.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	842	842	842	842	842	
5°	842	841	840	840	836	80
15°	815	810	809	809	811	230
25°	760	759	758	755	761	351
35°	685	683	678	680	679	429
45°	592	585	581	578	584	456
55°	478	472	465	463	466	427
65°	343	335	325	328	333	338
75°	192	186	178	152	145	202
85°	47	42	42	39	38	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	841.5	841.5	841.5	841.5	841.5
2.5°	840.6	842.3	840.6	839.0	840.6
5°	841.5	840.6	839.8	839.8	836.5
7.5°	838.2	836.5	834.1	834.9	831.6
10°	829.1	829.1	825.9	828.3	827.5
12.5°	827.5	819.3	818.5	819.3	819.3
15°	815.2	810.2	809.4	808.6	811.1
17.5°	807.0	798.7	797.9	796.3	802.0
20°	791.3	786.4	786.4	783.9	791.3
22.5°	777.4	772.4	773.3	770.0	778.2
25°	760.1	759.3	757.6	755.2	760.9
27.5°	746.1	742.9	742.0	739.6	741.2
30°	726.4	725.6	722.3	721.5	722.3
32.5°	708.3	705.9	700.9	701.8	700.9
35°	685.3	682.9	677.9	680.4	678.8
37.5°	662.3	659.9	654.1	656.6	658.2
40°	639.3	636.0	631.1	633.6	634.4
42.5°	616.3	610.6	606.4	604.8	610.6
45°	591.7	585.1	581.0	577.7	584.3
47.5°	566.2	558.8	553.0	551.4	557.1
50°	536.6	530.8	525.1	522.6	529.2
52.5°	510.3	501.3	494.7	493.0	498.8
55°	478.3	471.7	465.1	462.6	465.9
57.5°	447.0	439.6	430.6	430.6	435.5
60°	413.3	405.9	396.9	397.7	402.7
62.5°	377.2	372.3	359.9	363.2	368.1
65°	342.7	335.3	324.6	327.9	332.8
67.5°	305.7	299.1	289.3	290.1	292.5
70°	268.7	260.5	254.7	249.0	249.0
72.5°	230.1	223.5	216.9	201.3	198.0
75°	191.5	185.7	177.5	152.0	145.4
77.5°	153.7	149.6	133.9	110.1	107.6
80°	114.2	113.4	92.9	90.4	90.4
82.5°	78.9	75.6	70.7	65.7	63.3
85°	46.8	41.9	41.9	39.4	37.8
87.5°	14.8	17.3	17.3	17.3	17.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)