

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: P393430

Luminaire Tested: **24EN-LD2-30-UNV-L92765-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393430
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 (4500K)
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: 2509.7 lumens
Efficiency: N/A
Efficacy: 120.7 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

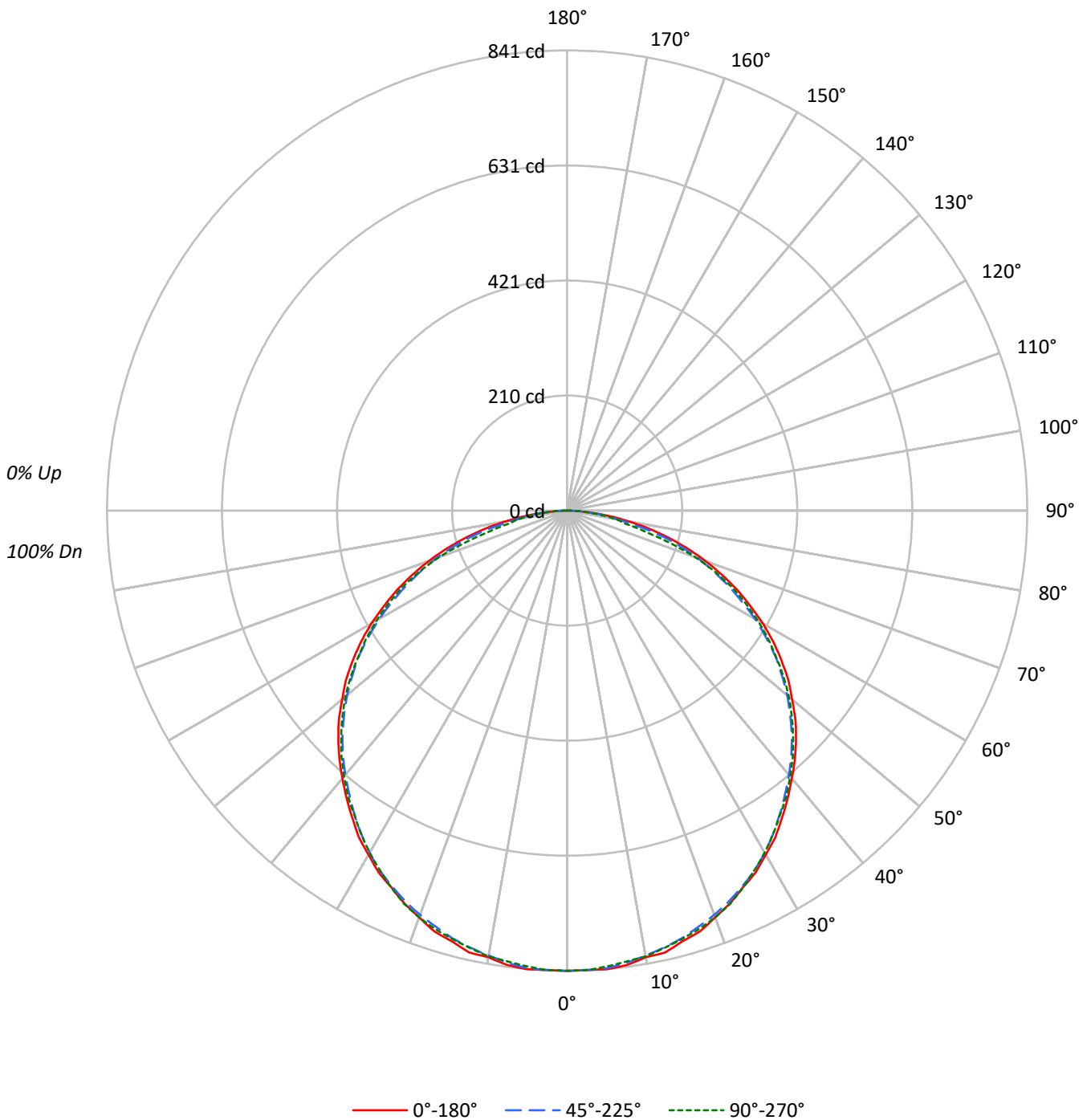
Input Watts (W): 20.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1132	1132	1132
5°	1136	1134	1130
10°	1132	1128	1130
15°	1135	1127	1129
20°	1133	1126	1133
25°	1128	1124	1129
30°	1128	1122	1122
35°	1125	1113	1115
40°	1123	1108	1114
45°	1126	1105	1111
50°	1123	1099	1107
55°	1122	1091	1093
60°	1112	1068	1083
65°	1091	1033	1059
70°	1057	1002	979
75°	995	922	756
80°	885	719	700
85°	722	647	584



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.7	3.2
10°-20°	228.7	9.1
20°-30°	349.5	13.9
30°-40°	426.1	17.0
40°-50°	449.7	17.9
50°-60°	417.5	16.6
60°-70°	327.0	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°	658.0	26.2
0°-40°	1084.1	43.2
0°-60°	1951.3	77.7
0°-90°	2509.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2509.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	841	841	841	841	841	
5°	841	840	840	840	836	80
15°	815	810	809	808	811	230
25°	760	759	757	755	761	351
35°	685	683	678	680	679	429
45°	592	585	581	578	584	456
55°	478	472	465	462	466	427
65°	343	335	324	328	333	338
75°	191	186	177	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°	841.2	841.2	841.2	841.2	841.2
2.5°	840.4	842.0	840.4	838.7	840.4
5°	841.2	840.4	839.6	839.6	836.3
7.5°	837.9	836.3	833.8	834.6	831.3
10°	828.9	828.9	825.6	828.1	827.2
12.5°	827.2	819.0	818.2	819.0	819.0
15°	814.9	810.0	809.2	808.3	810.8
17.5°	806.7	798.5	797.7	796.0	801.8
20°	791.1	786.2	786.2	783.7	791.1
22.5°	777.1	772.2	773.0	769.7	778.0
25°	759.9	759.1	757.4	755.0	760.7
27.5°	745.9	742.6	741.8	739.3	741.0
30°	726.2	725.4	722.1	721.3	722.1
32.5°	708.1	705.7	700.7	701.6	700.7
35°	685.1	682.7	677.7	680.2	678.6
37.5°	662.1	659.7	653.9	656.4	658.0
40°	639.1	635.8	630.9	633.4	634.2
42.5°	616.1	610.4	606.3	604.6	610.4
45°	591.5	584.9	580.8	577.5	584.1
47.5°	566.0	558.6	552.9	551.2	557.0
50°	536.4	530.7	524.9	522.5	529.0
52.5°	510.1	501.1	494.5	492.9	498.6
55°	478.1	471.5	465.0	462.5	465.8
57.5°	446.9	439.5	430.5	430.5	435.4
60°	413.2	405.8	396.8	397.6	402.5
62.5°	377.1	372.1	359.8	363.1	368.0
65°	342.6	335.2	324.5	327.8	332.7
67.5°	305.6	299.0	289.2	290.0	292.5
70°	268.6	260.4	254.7	248.9	248.9
72.5°	230.0	223.4	216.9	201.3	198.0
75°	191.4	185.7	177.4	152.0	145.4
77.5°	153.6	149.5	133.9	110.1	107.6
80°	114.2	113.4	92.8	90.4	90.4
82.5°	78.9	75.6	70.6	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)