

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: P392824

Luminaire Tested: **12EN-LD2-23-UNV-L92765-W2A-1-U (5700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392824
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-36)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 12EN-LD2-23-UNV-L92765-W2A-1-U (5700K)
Description: 1X2 ENCOUNTER, 2300 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1964.7 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.39
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

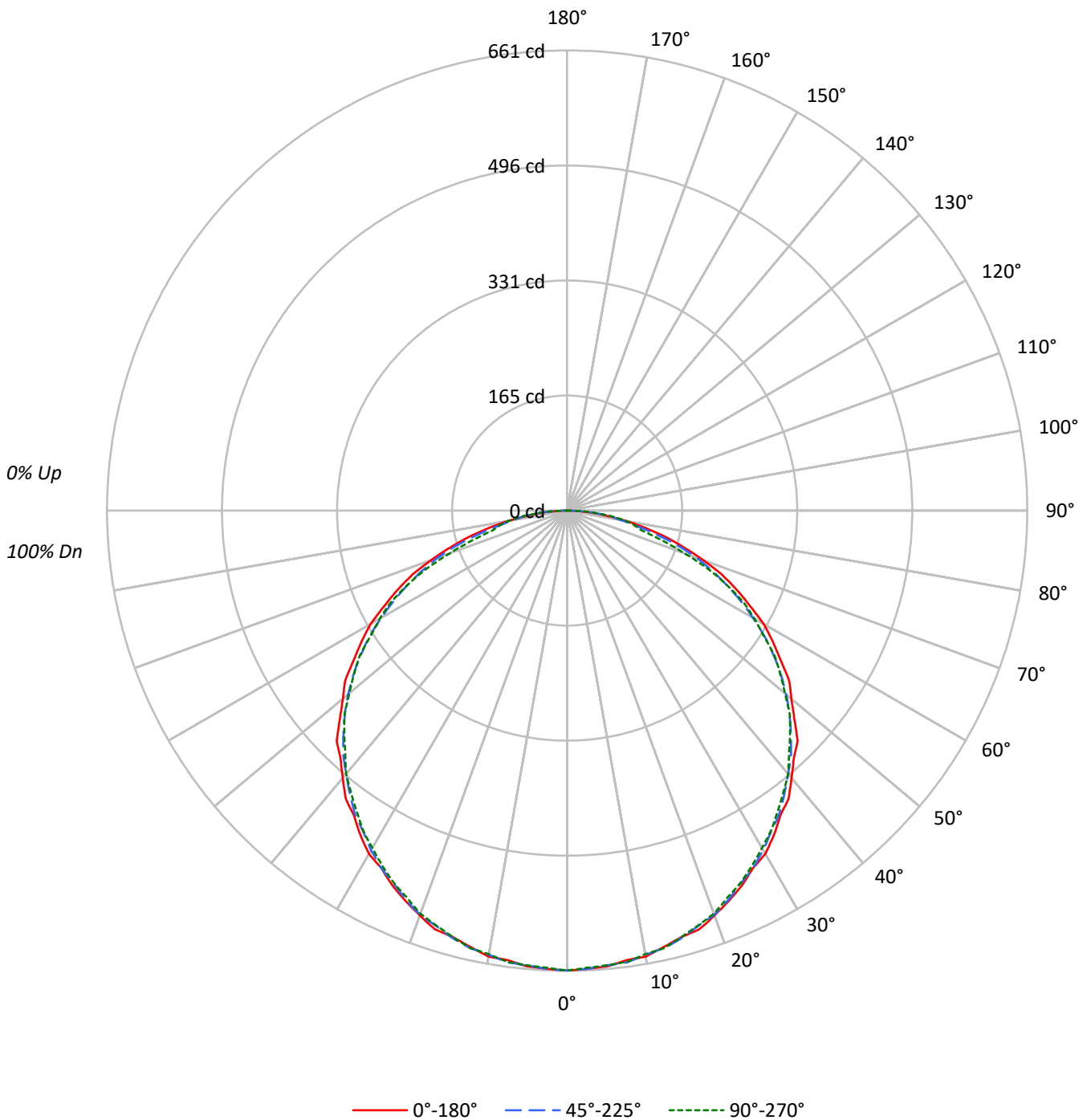
Input Watts (W): 19.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29					29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3556	3556	3556
5°	3551	3542	3542
10°	3555	3541	3536
15°	3534	3543	3534
20°	3544	3539	3529
25°	3527	3507	3502
30°	3537	3500	3478
35°	3509	3492	3464
40°	3523	3469	3469
45°	3564	3459	3446
50°	3518	3440	3418
55°	3509	3397	3413
60°	3510	3316	3344
65°	3422	3216	3226
70°	3273	3111	2815
75°	3044	2759	2314
80°	2653	2386	2678
85°	2112	2538	2587



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.4	3.2
10°-20°	179.4	9.1
20°-30°	272.9	13.9
30°-40°	332.5	16.9
40°-50°	352.3	17.9
50°-60°	326.2	16.6
60°-70°	253.8	12.9
70°-80°	141.4	7.2
80°-90°	43.8	2.2
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°	514.7	26.2
0°-40°	847.2	43.1
0°-60°	1525.7	77.7
0°-90°	1964.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1964.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	661	661	661	661	661	
5°	657	655	656	657	656	62
15°	634	637	636	636	634	180
25°	594	594	590	589	590	274
35°	534	534	532	529	527	336
45°	468	460	454	451	453	358
55°	374	371	362	360	364	335
65°	269	263	252	255	253	265
75°	146	142	133	119	111	154
85°	34	35	41	42	42	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	660.7	660.7	660.7	660.7	660.7
2.5°	659.0	659.0	659.0	659.0	657.3
5°	657.3	654.7	655.6	657.3	655.6
7.5°	651.3	653.9	654.7	654.7	653.9
10°	650.5	647.9	647.9	647.9	647.0
12.5°	641.9	642.8	643.6	643.6	643.6
15°	634.2	636.8	635.9	635.9	634.2
17.5°	630.8	626.5	625.6	625.6	624.8
20°	618.8	617.1	617.9	616.2	616.2
22.5°	606.8	606.0	605.1	604.2	601.7
25°	594.0	594.0	590.5	588.8	589.7
27.5°	578.6	580.3	578.6	576.9	575.1
30°	569.2	564.9	563.2	561.4	559.7
32.5°	552.9	551.2	546.0	543.5	545.2
35°	534.1	534.1	531.5	528.9	527.2
37.5°	522.1	516.9	512.7	510.1	510.1
40°	501.5	501.5	493.8	490.4	493.8
42.5°	481.9	481.9	475.9	474.2	471.6
45°	468.2	460.5	454.5	451.0	452.8
47.5°	442.5	440.8	433.1	430.5	433.9
50°	420.2	419.4	410.8	409.1	408.2
52.5°	402.3	394.6	386.9	384.3	386.0
55°	374.0	370.6	362.0	359.5	363.7
57.5°	350.1	346.6	336.4	334.6	334.6
60°	326.1	318.4	308.1	306.4	310.7
62.5°	295.3	291.9	280.7	281.6	285.9
65°	268.7	262.8	252.5	255.0	253.3
67.5°	240.5	233.7	225.1	221.7	219.1
70°	208.0	203.7	197.7	185.7	178.9
72.5°	175.5	172.0	166.0	148.9	143.8
75°	146.4	142.1	132.7	119.0	111.3
77.5°	114.7	114.7	101.8	95.9	99.3
80°	85.6	86.4	77.0	83.9	86.4
82.5°	58.2	57.3	63.3	65.9	65.9
85°	34.2	35.1	41.1	41.9	41.9
87.5°	13.7	16.3	18.8	19.7	20.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)