

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: P393331

Luminaire Tested: **22EN-LD2-34-UNV-L92765-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393331
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22EN-LD2-34-UNV-L92765-W2A-1-U (3000K)
Description: 2X2 ENCOUNTER, 3400 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2654.7 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

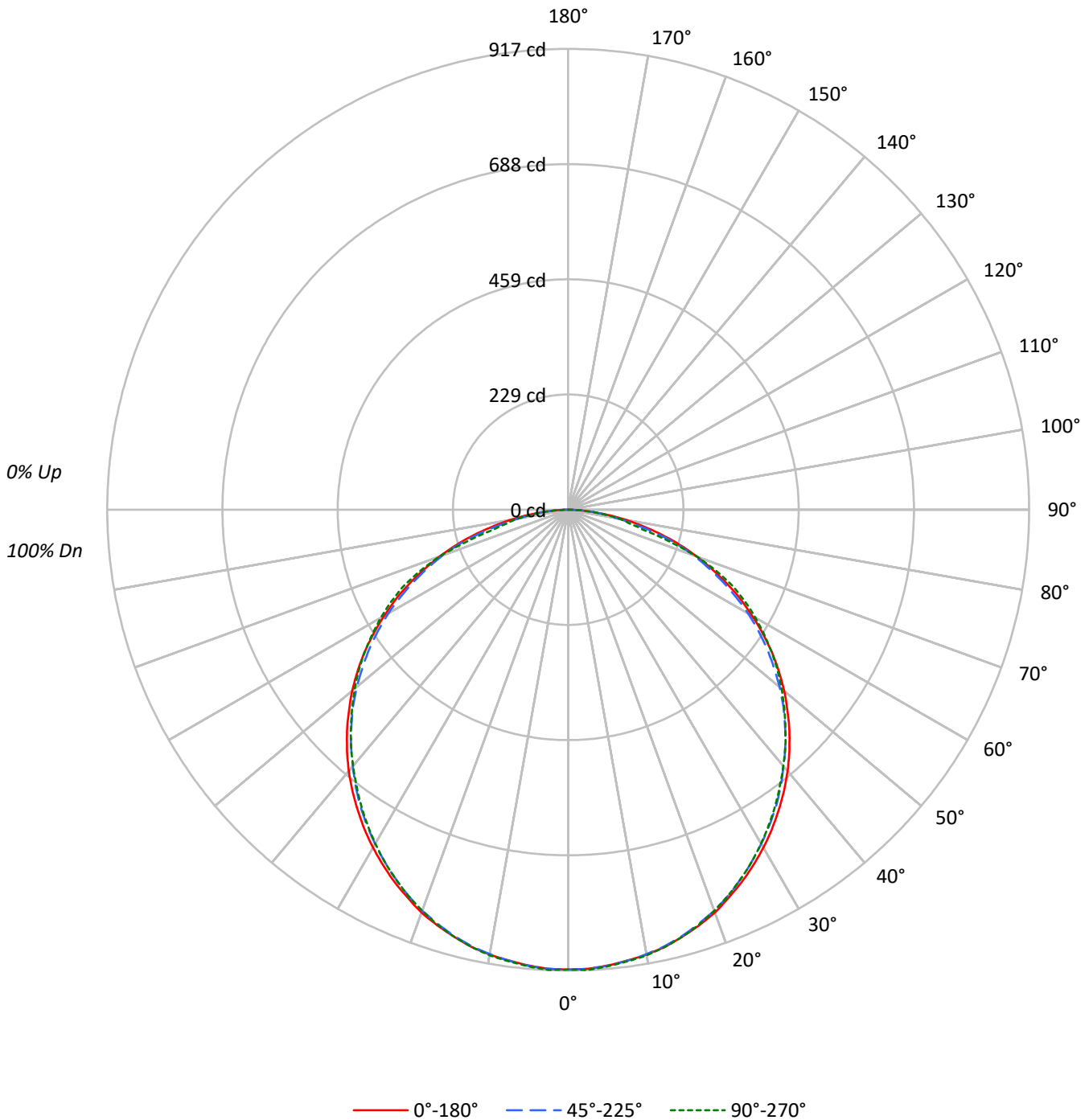
Input Watts (W): 25.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	91	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	40	68	55	46	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	29	55	42	34	28	41	33	28	40	33	28	39	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2462	2462	2462
5°	2459	2461	2464
10°	2456	2454	2460
15°	2450	2446	2450
20°	2443	2432	2432
25°	2427	2409	2409
30°	2413	2386	2384
35°	2398	2368	2360
40°	2385	2341	2339
45°	2369	2321	2324
50°	2350	2298	2321
55°	2321	2267	2317
60°	2275	2225	2316
65°	2223	2159	2307
70°	2138	2089	2138
75°	2005	1891	1618
80°	1799	1511	1619
85°	1340	1362	1340



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.5	3.3
10°-20°	247.8	9.3
20°-30°	374.6	14.1
30°-40°	451.8	17.0
40°-50°	473.2	17.8
50°-60°	436.2	16.4
60°-70°	342.4	12.9
70°-80°	191.0	7.2
80°-90°	51.1	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°	709.0	26.7
0°-40°	1160.7	43.7
0°-60°	2070.1	78.0
0°-90°	2654.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2654.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	915	915	915	915	915	
5°	910	910	911	911	912	87
15°	879	878	878	878	879	248
25°	818	814	811	810	811	377
35°	730	727	721	717	718	457
45°	622	618	610	608	611	480
55°	495	489	483	486	494	442
65°	349	344	339	351	362	345
75°	193	189	182	163	156	204
85°	43	42	44	43	43	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	915.0	915.0	915.0	915.0	915.0
2.5°	914.3	913.5	914.3	915.0	916.6
5°	910.4	909.6	911.2	911.2	912.0
7.5°	905.0	904.2	905.0	905.8	906.5
10°	898.8	898.0	898.0	898.8	900.3
12.5°	891.0	889.5	889.5	889.5	891.0
15°	879.4	877.9	877.9	877.9	879.4
17.5°	867.1	865.5	864.0	864.0	865.5
20°	853.1	850.8	849.2	848.5	849.2
22.5°	835.3	833.8	831.4	829.9	831.4
25°	817.5	814.4	811.3	810.5	811.3
27.5°	797.4	794.3	790.4	788.9	790.4
30°	776.5	772.6	768.0	765.6	767.2
32.5°	754.0	750.9	744.7	742.4	743.2
35°	730.0	726.9	720.7	716.9	718.4
37.5°	705.3	701.4	694.4	690.5	692.1
40°	678.9	674.3	666.5	663.4	665.8
42.5°	651.1	647.2	639.5	636.4	639.5
45°	622.4	617.8	610.0	607.7	610.8
47.5°	591.5	588.4	580.6	579.8	582.9
50°	561.3	555.8	548.9	549.6	554.3
52.5°	528.0	523.3	515.6	518.7	524.9
55°	494.7	489.3	483.1	486.2	493.9
57.5°	459.1	455.2	448.2	452.9	462.2
60°	422.7	419.6	413.4	421.1	430.4
62.5°	387.1	381.7	376.2	386.3	397.1
65°	349.1	343.7	339.1	350.7	362.3
67.5°	309.7	305.8	301.9	311.2	319.0
70°	271.7	267.9	265.5	267.1	271.7
72.5°	233.0	229.1	226.8	218.3	212.9
75°	192.8	188.9	181.9	163.3	155.6
77.5°	153.3	151.0	137.0	120.8	123.1
80°	116.1	112.3	97.5	100.6	104.5
82.5°	79.0	75.1	73.5	71.2	72.0
85°	43.4	41.8	44.1	42.6	43.4
87.5°	17.0	17.8	19.4	18.6	18.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)