

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: P393333

Luminaire Tested: **22EN-LD2-34-UNV-L92765-W2A-1-U (4000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393333
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 (4000K)
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: 2836.0 lumens
Efficiency: N/A
Efficacy: 111.2 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

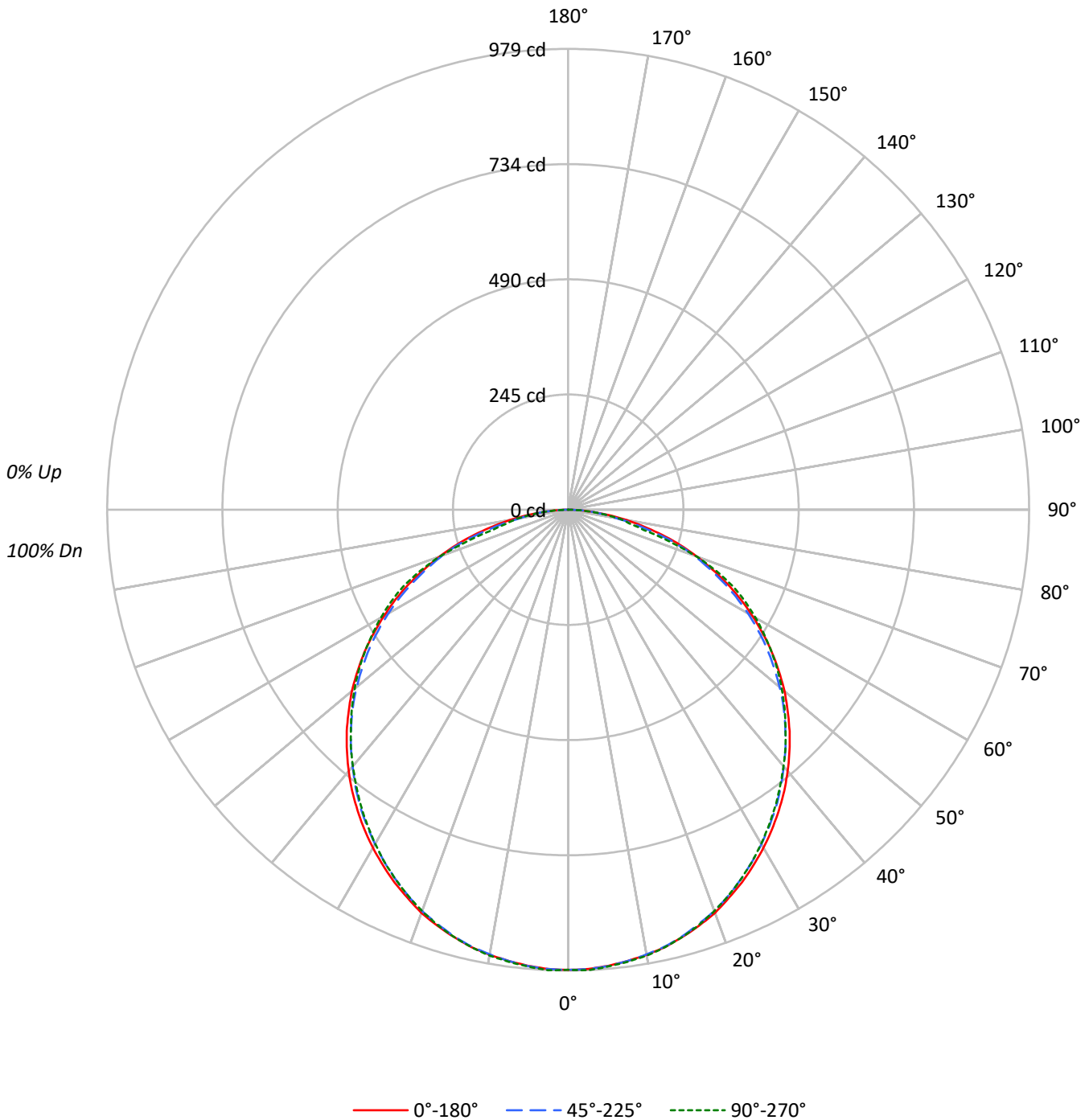
Input Watts (W): 25.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2631	2631	2631
5°	2627	2629	2632
10°	2624	2622	2628
15°	2617	2613	2617
20°	2610	2598	2598
25°	2593	2573	2573
30°	2577	2549	2547
35°	2562	2530	2521
40°	2548	2501	2499
45°	2530	2480	2483
50°	2510	2455	2479
55°	2479	2421	2475
60°	2430	2377	2475
65°	2375	2306	2465
70°	2284	2232	2284
75°	2141	2021	1728
80°	1923	1615	1729
85°	1430	1454	1430



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.5	3.3
10°-20°	264.8	9.3
20°-30°	400.2	14.1
30°-40°	482.6	17.0
40°-50°	505.5	17.8
50°-60°	466.0	16.4
60°-70°	365.8	12.9
70°-80°	204.1	7.2
80°-90°	54.6	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°	757.4	26.7
0°-40°	1240.0	43.7
0°-60°	2211.5	78.0
0°-90°	2836.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2836.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	978	978	978	978	978	
5°	973	972	973	973	974	92
15°	940	938	938	938	940	265
25°	873	870	867	866	867	403
35°	780	777	770	766	768	488
45°	665	660	652	649	652	513
55°	528	523	516	519	528	472
65°	373	367	362	375	387	368
75°	206	202	194	174	166	218
85°	46	45	47	46	46	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	977.6	977.6	977.6	977.6	977.6
2.5°	976.7	975.9	976.7	977.6	979.2
5°	972.6	971.8	973.4	973.4	974.2
7.5°	966.8	966.0	966.8	967.6	968.5
10°	960.2	959.4	959.4	960.2	961.8
12.5°	951.9	950.3	950.3	950.3	951.9
15°	939.5	937.9	937.9	937.9	939.5
17.5°	926.3	924.6	923.0	923.0	924.6
20°	911.4	908.9	907.3	906.4	907.3
22.5°	892.4	890.7	888.2	886.6	888.2
25°	873.4	870.0	866.7	865.9	866.7
27.5°	851.8	848.5	844.4	842.8	844.4
30°	829.5	825.4	820.4	817.9	819.6
32.5°	805.5	802.2	795.6	793.1	794.0
35°	779.9	776.6	770.0	765.8	767.5
37.5°	753.4	749.3	741.9	737.7	739.4
40°	725.3	720.3	712.1	708.8	711.3
42.5°	695.5	691.4	683.1	679.8	683.1
45°	664.9	660.0	651.7	649.2	652.5
47.5°	631.9	628.5	620.3	619.5	622.8
50°	599.6	593.8	586.4	587.2	592.2
52.5°	564.0	559.1	550.8	554.1	560.7
55°	528.5	522.7	516.1	519.4	527.6
57.5°	490.4	486.3	478.9	483.8	493.7
60°	451.6	448.3	441.6	449.9	459.8
62.5°	413.5	407.7	401.9	412.7	424.3
65°	373.0	367.2	362.2	374.6	387.1
67.5°	330.8	326.7	322.5	332.5	340.7
70°	290.3	286.2	283.7	285.3	290.3
72.5°	248.9	244.8	242.3	233.2	227.4
75°	205.9	201.8	194.4	174.5	166.2
77.5°	163.8	161.3	146.4	129.0	131.5
80°	124.1	119.9	104.2	107.5	111.6
82.5°	84.4	80.2	78.6	76.1	76.9
85°	46.3	44.7	47.1	45.5	46.3
87.5°	18.2	19.0	20.7	19.8	19.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)